

DESCRIPTION

Title of the Invention: INFORMATION PROCESSING DEVICE, INFORMATION PROCESSING METHOD,
AND PROGRAM

TECHNICAL FIELD

[0001]

The present invention relates to an information processing apparatus, an information processing method, and a program.

BACKGROUND ART

[0002]

Patent Document 1 discloses a system that executes a stock option exercise procedure through a simplified process. A stock option refers to a scheme designed to enhance a sense of belonging to a company by granting executives and employees the right (subscription rights to shares) to purchase the company's own shares at a predetermined price.

Citation List

Patent Documents

[0003]

Patent Document 1: Japanese Unexamined Patent Application, Publication No.
2003-085368

DISCLOSURE OF THE INVENTION

Problems to be Solved by the Invention

[0004]

The issuance of shares or stock acquisition rights, such as stocks or stock

options, requires a resolution of the board of directors or a special resolution of the general shareholders' meeting. Since complicated procedures and management operations such as payment for shares or stock acquisition rights and registration are required, there is also a demand for a simpler method to provide motivation than stock options.

[0005]

The present invention has been made in view of such circumstances and an object thereof is to provide a technology that enables a user to easily grasp the status of benefits granted in a form suitable for the user in order to enhance a sense of belonging to a company and to improve motivation.

Means for Solving the Problems

[0006]

In order to achieve the above object, one aspect of the present invention provides an information processing apparatus, including: a grant value information storage unit configured to store grant value information including information relating to a grant value calculated based on a designated index and to a period during which the grant value can be exercised; a grant value information acquisition unit configured to acquire the grant value information from the grant value information storage unit; and an output control unit configured to output, to a predetermined user, an indication that there is the grant value information when the grant value information acquired by the grant value information acquisition unit includes the grant value that can be exercised by the predetermined user currently or in the future.

Effects of the Invention

[0007]

According to the present invention, it is possible to provide a technology that enables a user to easily grasp the status of benefits granted in a form suitable

for the user in order to enhance a sense of belonging to a company and to improve motivation.

BRIEF DESCRIPTION OF THE DRAWINGS

[0008]

FIG. 1 is a schematic diagram illustrating a configuration of an information processing system;

FIG. 2 is a block diagram illustrating a hardware configuration of an information processing apparatus;

FIG. 3 is a functional block diagram illustrating a functional configuration of the information processing apparatus according to a first embodiment;

FIG. 4 is a flowchart illustrating an example of a processing flow relating to display of subscription rights to shares by the information processing apparatus;

FIG. 5 is a flowchart illustrating an example of a processing flow relating to display of grant values by the information processing apparatus;

FIG. 6 is a diagram illustrating an output screen of a user terminal displaying information relating to subscription rights to shares;

FIG. 7 is a diagram illustrating an output screen of the user terminal displaying information relating to grant values;

FIG. 8 is a diagram illustrating an output screen of the user terminal displaying information relating to exercise of rights of grant values;

FIG. 9 is a diagram illustrating an output screen of the user terminal displaying detailed information relating to exercise of rights of grant values;

FIG. 10 is a diagram illustrating an output screen of the user terminal displaying information relating to an application for exercise of rights of grant values;

FIG. 11 is a diagram illustrating an output screen of the user terminal for tax amount calculation input;

FIG. 12 is a diagram illustrating an output screen of the user terminal for tax amount calculation results;

FIG. 13 is a diagram illustrating an output screen of a company terminal displaying information relating to subscription rights to shares;

FIG. 14 is a diagram illustrating an output screen of the company terminal displaying information relating to grant values;

FIG. 15 is a functional block diagram illustrating a functional configuration of the information processing apparatus according to a second embodiment;

FIG. 16 is a diagram illustrating an output screen of the user terminal;

FIG. 17 is a diagram illustrating another output screen of the user terminal; and

FIG. 18 is a diagram illustrating an output screen of the company terminal.

PREFERRED MODE FOR CARRYING OUT THE INVENTION

[0009]

<Outline>

The present embodiment describes an example of outputting a period during which a right to convert a stock acquisition right or a grant value into money can be exercised, together with an expected profit amount upon exercise of the right. According to the present embodiment, it becomes possible to easily grasp the period during which the right to exercise conversion rights of stock acquisition rights or grant values held by the user is available, as well as the expected stock price when selling shares acquired through exercising the stock acquisition right, and the conversion price of the grant value into money. As a result, the convenience of exercising the right to stock options or conversion rights of grant values is improved. Furthermore, motivation to work can be enhanced in the workplace (company) where the user is employed as an employee.

[0010]

<System Configuration>

The information processing system 1 according to an embodiment of the present invention will be described in detail with reference to the drawings. FIG. 1 is a schematic diagram illustrating an example of an overall configuration of the information processing system 1 according to the present embodiment. The information processing system 1 illustrated in FIG. 1 is a cloud system utilizing the Internet. The information processing system 1 provides a cloud service not only to companies having stock acquisition rights or to unlisted venture companies aiming for a public listing, but also to companies that do not issue subscription rights to shares and only grant some grant values.

[0011]

The information processing system 1 is used by a person in charge of a company that grants stock acquisition rights to employees, and by employees who hold stock acquisition rights, and supports the provision of information relating to stock acquisition rights and various procedural operations relating to stock acquisition rights. A stock option refers to a right to purchase the company's own shares at a price determined by the company. A company that utilizes the cloud service provided by the information processing apparatus 3 can grant to employees not only stock acquisition rights but also grant values independently defined by the company. The cloud service provided by the information processing apparatus 3 can be regarded as a system for issuance, management, and viewing by grantees of stock options or grant values. In the following description, the term "stock option (SO)" may be used to refer to a subscription right to shares, and the term "grant value" may be used to refer to an "engagement stock (ES)". Similarly to how the unit of "shares" is expressed as "shares" and its price as "stock price", when referring to grant values as "ES", the unit is expressed as "ES", and its price is appropriately referred to as "ES value".

[0012]

In the present embodiment, a company that utilizes the cloud service is defined as an issuer, and an employee or the like to whom stock options or grant values are granted and who uses a user terminal 5 is defined as a user. The user includes not only employees who have an employment contract but also freelancers who have a contract for work or similar arrangement. The employees may include those belonging to a plurality of companies such as group companies.

[0013]

The information processing system 1 according to the present embodiment is configured by connecting an information processing apparatus 3, a company terminal 4, and a user terminal 5 via a network 2. The network 2 may be, for example, the Internet, a LAN (Local Area Network), or a VPN (Virtual Private Network). Although not illustrated in the drawings, various devices and equipment such as a scanner for capturing images may be connected to the user terminal 5 as necessary. The user in the present embodiment may be any user who holds a stock acquisition right or a grant value, including employees of a company to which a stock acquisition right or a grant value is granted, executives (including officers) of the company, or investors thereof.

[0014]

The information processing apparatus 3 is, for example, a server managed by an operating entity such as a certified tax accountant company or a contractor thereof. The information processing apparatus 3 is connected to the network 2 and communicates with a company terminal 4 and a user terminal 5. Accordingly, the information processing apparatus 3 is capable of inputting data to the company terminal 4, inputting data to the user terminal 5, receiving data output from the company terminal 4, and receiving data output from the user terminal 5.

[0015]

The company terminal 4 is a terminal managed by a company and used by a person in charge of the company, and is a general communication terminal such as a personal computer or a tablet. The company terminal 4 is connected to the network 2 and communicates with the information processing apparatus 3. Accordingly, the company terminal 4 is capable of inputting data to the information processing apparatus 3 and receiving data output from the information processing apparatus 3. The company terminal 4 outputs a screen having at least a part of its display area rendered in a predetermined first color (for example, pink).

[0016]

The user terminal 5 is a terminal used by an employee, and is a general communication terminal such as a personal computer, a tablet, or a smartphone. The user terminal 5 is connected to the network 2 and communicates with the information processing apparatus 3. Accordingly, the user terminal 5 is capable of inputting data to the information processing apparatus 3 and receiving data output from the information processing apparatus 3. The user terminal 5 may receive information from a scanner connected via a USB cable (not illustrated), or may receive information captured by a digital camera or a camera function of a smartphone. Furthermore, the user terminal 5 outputs a screen having a display color that differs from the display color of the company terminal 4, that is, a predetermined second color (for example, blue when a profit is obtained by selling shares acquired through the exercise of subscription rights to shares, and red when a loss is incurred).

[0017]

By using a scanner, a digital camera, or a camera function of a smartphone, documents such as contracts or copies of registration certificates may be read or photographed, and characters may be recognized by an optical character recognition (OCR) function. The recognized information is transmitted to the user terminal 5. Information read from the contract or the copy of the registration certificate

becomes stock acquisition right information described later.

[0018]

<Hardware Configuration>

(Hardware Configuration of Information Processing Apparatus 3)

The hardware configuration of the information processing apparatus 3 will be described with reference to FIG. 2. FIG. 2 is a block diagram illustrating an example of the hardware configuration of the information processing apparatus 3 according to the present embodiment. The information processing apparatus 3 includes a CPU (Central Processing Unit) 11, a ROM (Read Only Memory) 12, a RAM (Random Access Memory) 13, a bus 14, an input/output interface 15, an output unit 16, an input unit 17, a storage unit 18, a communication unit 19, and a drive 20.

[0019]

The CPU 11 executes various processing operations in accordance with a program recorded in the ROM 12 or a program loaded into the RAM 13 from the storage unit 18. The RAM 13 appropriately stores data and the like information necessary for the CPU 11 to execute various processing operations. The CPU 11, the ROM 12, and the RAM 13 are mutually connected via the bus 14. The input/output interface 15 is also connected to the bus 14.

[0020]

The input/output interface 15 is connected to the output unit 16, the input unit 17, the storage unit 18, the communication unit 19, and the drive 20. The output unit 16 is composed of a display, a speaker, a printer, or the like, and outputs output information such as audio data and text data. When the output unit 16 is, for example, a printer, the output information can be printed as well. The input unit 17 is composed of a keyboard, a mouse, a touch panel, or the like, and is used to input various types of information. The storage unit 18 is composed of a hard disk, DRAM (Dynamic Random Access Memory), or the like, and stores various

types of data. The communication unit 19 performs mutual communication with the company terminal 4 and the user terminal 5 via the network 2 including the Internet.

[0021]

The drive 20 is configured such that a removable medium 21, which may be a magnetic disk, an optical disk, a magneto-optical disk, or a semiconductor memory, is appropriately mounted therein. A program read from the removable medium 21 by the drive 20 is installed in the storage unit 18 as necessary. The removable medium 21 can store various types of data stored in the storage unit 18 in the same manner as the storage unit 18.

[0022]

(Hardware Configuration of Company Terminal 4 and User Terminal 5)

Although not illustrated, the company terminal 4 and the user terminal 5 have the same hardware configuration as that illustrated in FIG. 2. That is, each of the terminals includes a CPU, a ROM, a RAM, a bus, an input/output interface, an output unit, an input unit, a storage unit, a communication unit, and a drive, which correspond respectively to the CPU 11, the ROM 12, the RAM 13, the bus 14, the input/output interface 15, the output unit 16, the input unit 17, the storage unit 18, the communication unit 19, and the drive 20 illustrated in FIG. 2. As described above, the user terminal 5 further includes a scanner (image reading device).

[0023]

<Functional Configuration of First Embodiment>

The functional configuration of the information processing apparatus 3 according to the first embodiment will be described with reference to FIG. 3. FIG. 3 is a functional block diagram illustrating an example of the functional configuration of the information processing apparatus 3 according to the first embodiment. In the CPU 11 of the information processing apparatus 3, the following functional modules operate: a stock acquisition right information acquisition unit

31, a grant value information acquisition unit 131, an output control unit 132, a user registration information acquisition unit 133, a submission document generation unit 34, a new information acquisition unit 135, and a tax amount output unit 150. A region of the storage unit 18 of the information processing apparatus 3 includes a stock acquisition right information database DB 41 (stock acquisition right information storage unit), a grant value information DB 141 (grant value information storage unit), and a user registration information DB 142.

[0024]

The stock acquisition right information acquisition unit 31 acquires stock acquisition right information from the stock acquisition right information DB 41. The stock acquisition right information DB 41 serves as a stock acquisition right information storage unit and stores stock acquisition right information including information relating to a period during which rights can be exercised. The information relating to the period during which rights can be exercised is a period from a right exercise start date to a right exercise end date. The stock acquisition right information is utilized by the output control unit 132 and the submission document generation unit 34. The stock acquisition right information acquisition unit 31 outputs the stock acquisition right information acquired from the stock acquisition right information DB 41 to the output control unit 132. The stock acquisition right information acquisition unit 31 also outputs the stock acquisition right information acquired from the stock acquisition right information DB 41 to the submission document generation unit 34.

[0025]

Examples of the stock acquisition right information include information relating to a period during which stock acquisition rights can be exercised, information relating to the number of shares obtainable and the acquisition share price for each employee having stock acquisition rights, and information relating

to an expected future selling stock price. All or part of this stock acquisition right information becomes information to be described in documents submitted to a securities company or a trust bank when exercising the rights. The stock acquisition rights may be collectively set in a predetermined data format by specifying a target user, the number of allocations, and other parameters. The predetermined data format is, for example, a CSV (comma separated values) format, which is uploaded by a person in charge from the company terminal 4 and imported and registered in the stock acquisition right information DB 41.

[0026]

The grant value information acquisition unit 131 acquires grant value information from the grant value information DB 141 (grant value information storage unit). The grant value information DB 141 serves as a grant value information storage unit that stores grant value information including information relating to a period during which a grant value can be exercised. The grant value information acquisition unit 131 outputs the grant value information acquired from the grant value information DB 141 to the output control unit 132. In the first embodiment, the grant value information DB 141 functions as the grant value information storage unit.

[0027]

The grant value information includes at least a grant value derived based on an arbitrary index set by an issuer and information relating to a right exercise period during which the right to exercise the grant value can be executed. The grant value information may also include information relating to the number of grant values obtainable and details of the grant value for each user having a usage right of the grant value, as well as information relating to an expected future selling value of the grant value. As will be described later, the arbitrary index set by the issuer in the grant value information may be designated by selecting from among

a plurality of candidate indices. Different indices may be designated for different users. Furthermore, the grant values may be collectively set in a predetermined data format by specifying a target user, a distribution quantity, or the like. The predetermined data format is, for example, a CSV (comma separated values) format, which is uploaded by a person in charge from the company terminal 4, imported, and registered in the grant value information DB 141.

[0028]

The grant value is assumed to be convertible into money during a right exercise period set in the future, and is a benefit provided to a user in a form different from a salary. The grant value is granted, for example, by a numerical value in a predetermined arbitrary unit. The granted grant value is registered in the grant value information DB 141 together with the number of the predetermined units (the quantity of the grant value) while being associated with the user.

[0029]

The grant value can be configured to be granted when a predetermined achievement condition is satisfied. The predetermined achievement condition may be a temporal condition such as summer or winter, similar to a bonus, or may be a condition such that the grant value is granted when the user satisfies a predetermined evaluation condition, or both a temporal condition and an evaluation condition. The evaluation condition may be, for example, that operating profit reaches a target value, that the number of attendance days exceeds 80%, that the user is still employed and not scheduled to resign by the payment date on which the future grant value can be converted into money, or that a CO2 reduction target is achieved. The evaluation condition may also be the acquisition of a qualification, or receiving an internal president's award or an external prestigious award.

[0030]

The right exercise period is information indicating a timing or a period during

which a granted grant value can be used. This right exercise period can be set by the issuer. Rules for expiration of the grant value can also be set by the issuer. The right exercise period may be set such that the granted grant value can be used immediately upon being set, or may be set such that the grant values are accumulated while the user is employed and become available for use upon retirement. The right exercise period may also be a predetermined period from a right exercise start date to a right exercise end date after a lapse of a predetermined period from the time when the grant value is set.

[0031]

Conversion of the grant value into money differs from a bonus in a given fiscal year, and when the conversion is made upon retirement, taxation under the retirement allowance system is applied, which is advantageous to the user. Since the grant value does not involve the use of shares, there is an advantage that complicated procedures are unnecessary. Even a user who lacks investment literacy regarding shares or the like can intuitively perceive the benefit of the grant value as a value convertible into money. The grant value can therefore be regarded as a user's benefit that substitutes for a stock option serving to motivate a sense of belonging to the company and to increase motivation for work.

[0032]

An index for calculating the grant value will now be described. The index is set as a parameter for calculating the grant value, and the grant value is linked to the index. The index of the grant value is set for each user from among a plurality of candidate indices. It is preferable that the index be set based on affiliation information such as the department or managerial position assigned to the user. By setting different indices or combinations of indices according to the user's duties, it becomes possible to provide a grant value that is more suitable for the user.

[0033]

The index may be set using, for example, numerical values in the market such as stock price, number of shares, or yen value, as well as KPIs (Key Performance Indicators) such as the issuer's sales, operating profit, retained earnings, profit before income tax, net profit for the current period, corporate value, share value, return on equity (ROE), return on total assets (ROA), environmental initiative indicators, number of new customers, production volume, and operational efficiency. That is, the index may include KPIs within the organization (company) itself, in addition to externally determined values (such as corporate value). For example, when 10,000 ES are issued, the ES value may be defined as a value obtained by dividing a predetermined KPI by 10,000.

[0034]

In other words, the index may adopt financial indicators such as the issuer's stock price, number of shares, sales, operating profit, retained earnings, profit before income tax, net profit for the current period, corporate value, share value, return on equity (ROE), return on total assets (ROA), or other financial metrics. As a result, since the value of the grant value (ES) is linked to financial indicators, the user, even if not an executive but an employee, can have a sense of participation in management.

[0035]

Furthermore, the index may adopt performance evaluation indicators such as the issuer's number of new customers, production volume, operational efficiency, or other performance metrics. As a result, since the value of the grant value (ES) is linked to performance evaluation indicators, the user can develop an awareness of improving performance. In other words, compared with management indicators, performance evaluation indicators are more familiar and concrete. Therefore, the user can be more aware of improving the performance evaluation indicators through

their own contribution.

[0036]

For example, the index may adopt an environmental initiative indicator of the issuer (for example, an indicator relating to ESG (Environment, Social, and Governance)). The initiative indicator includes actions and the like that contribute to the reduction of CO2 emissions. As a result, since the value of the grant value (ES) is linked to the environmental initiative indicator, the user can develop an awareness of cooperating with or promoting environmental initiatives. In recent years, companies or similar entities (one example of issuers) have been expected to strengthen their initiatives relating to ESG. Consequently, companies and the like have been making investments in ESG and engaging in various initiatives. In other words, the present invention can solve the problem that users such as employees have conventionally had little awareness or motivation to cooperate with or promote such initiatives.

[0037]

The aforementioned indices may include not only overall indicators of an organization serving as the issuer but also indicators for each predetermined unit (for example, a department) that constitutes the organization. That is, a suitable performance evaluation index for a department to which each of a plurality of users belongs can be designated for that user. For example, a performance evaluation index aggregated within the scope of each department to which the plurality of users belong may be set. The grant value may be derived based on a single parameter or may be derived by combining a plurality of parameters.

[0038]

When the stock price of the issuer is adopted as the index for the grant value, the grant value is linked to the stock price, and therefore, the amount of money obtainable through conversion varies depending on the timing of conversion. Similar

to a stock option, the conversion can be executed by considering the timing of listing or stock price increases. Since a rise in the issuer's stock price brings profit to the user, motivation toward work can be intuitively enhanced. However, since the grant value is neither a share nor a stock option, it can be granted without the complicated procedures unique to shares or stock options.

[0039]

When sales are adopted as the index for the grant value, the grant value is linked to sales, enabling the granting of an effective incentive to users belonging to departments such as sales departments directly related to sales performance. By setting sales values for each department, the work content of each user can be more accurately reflected. When the number of new customers who have newly become clients is adopted as the index for the grant value, it becomes possible to provide an effective incentive to users belonging to departments engaged in customer acquisition.

[0040]

When production volume is adopted as the index for the grant value, since the grant value is linked to the production volume, an effective incentive can be provided to users belonging to departments such as factories engaged in production or departments engaged in development. When operational efficiency is adopted as the index for the grant value, an effective incentive can be provided to users belonging to departments that handle clerical or administrative tasks. Operational efficiency may be represented, for example, by a numerical value or evaluation determined by an evaluator such as a superior or a third party.

[0041]

As described above, by setting the index for the grant value according to the user's work scope, it becomes possible to effectively enhance motivation toward work and continued employment even for users belonging to departments having little

correlation with stock price. Since the grant value does not involve complicated procedures or management as in the case of shares, it is particularly suitable for users who wish to avoid such procedures.

[0042]

Although the index for the grant value may be set individually for each user, it is sufficient that the grant value is assigned to the user based on a predetermined operation. For example, a plurality of users may be linked to a group to which one or more users belong, and the issuer may set the index for each group, whereby the index for the grant value is set for the users. Specifically, for example, users belonging to a sales department may be linked to a sales group, and the issuer can set sales as the index for the sales group. Accordingly, the issuer can easily set the index. For the users, motivation to cooperate within the same group to improve the index (numerical value) can be enhanced.

[0043]

The output control unit 132 outputs, to a predetermined user terminal 5, an indication that there is a stock acquisition right currently exercisable, when stock acquisition right information acquired by the stock acquisition right information acquisition unit 31 includes stock acquisition right information relating to a stock acquisition right of a predetermined user that is currently within an exercisable period. The output control unit 132 outputs, to the user terminal, an expenditure amount at the time of exercising the right and an estimated profit amount at the time of sale, based on the stock acquisition right information acquired by the stock acquisition right information acquisition unit 31. It is preferable that the expenditure amount at the time of exercising the right and the estimated profit amount at the time of sale be displayed in a graph format so that the user can easily understand them.

[0044]

The output control unit 132 outputs stock acquisition right information to a company terminal 4 managed by a company that grants stock acquisition rights to users, in such a manner that at least a part of a screen is displayed in a first display color. Meanwhile, the output control unit 132 outputs stock acquisition right information to a user terminal 5 used by a user having stock acquisition rights, in such a manner that at least a part of a screen is displayed in a second display color different from the first display color.

[0045]

The output control unit 132 causes the user terminal 5 to output an indication that there is a stock acquisition right whose exercisable period will arrive in the future, when stock acquisition right information acquired by the stock acquisition right information acquisition unit 31 includes stock acquisition right information relating to a stock acquisition right whose exercisable period will become effective in the future. Furthermore, when the output control unit 132 outputs to the user that there is a stock acquisition right currently exercisable, the output control unit 132 also outputs the exercisable period. The exercisable period output by the output control unit 132 to the user indicates that a period immediately before the exercisable period is a non-exercisable period.

[0046]

The output control unit 132 causes the user terminal 5 to output a file (for example, a right exercise request form) created by the submission document generation unit 34 through processing described later. The file output to the user terminal 5 is printed on paper and serves as a document to be submitted to a securities company or a trust bank when exercising the right.

[0047]

The output control unit 132 executes processing to display grant values to the user. The display processing of grant values executed by the output control unit

132 will be described. The output control unit 132 executes processing to output, to a predetermined user terminal 5, an indication that a grant value exists. Based on the grant value information acquired by the grant value information acquisition unit 131, the output control unit 132 outputs an estimated profit amount at the time of exercising the right to the user terminal 5. It is preferable that the estimated profit amount at the time of exercising the right be displayed in a graph format so that the user can easily understand it.

[0048]

The output control unit 132 outputs stock acquisition right information to a company terminal 4 managed by a company that grants stock acquisition rights or grant values to users, in such a manner that at least a part of a screen is displayed in a first display color. Meanwhile, the output control unit 132 outputs stock acquisition right information or grant value information to a user terminal 5 used by a user, in such a manner that at least a part of a screen is displayed in a second display color different from the first display color.

[0049]

When the grant value information acquired by the grant value information acquisition unit 131 includes a grant value whose exercisable period will become effective in the future, the output control unit 132 causes the user terminal 5 to output an indication that there is a grant value whose exercisable period will arrive in the future. Furthermore, when the output control unit 132 outputs to the user that there is a grant value currently exercisable, the output control unit 132 also outputs the exercisable period. The exercisable period output by the output control unit 132 to the user indicates that a period immediately before the exercisable period is a non-exercisable period. Furthermore, the output control unit 132 may execute processing to display achievement conditions of the grant value corresponding to the user who uses the user terminal 5.

[0050]

The user registration information acquisition unit 133 acquires user registration information from the user registration information DB 142. The user registration information DB 142 stores the user registration information acquired by the new information acquisition unit 135. The user registration information is utilized by the submission document generation unit 34. The user registration information acquisition unit 133 outputs the user registration information acquired from the user registration information DB 142 to the submission document generation unit 34.

[0051]

The user registration information DB 142 stores personal information such as the address and name of the user, as well as affiliation information for setting a grant value. The user registration information is used in processing such as determining whether the user is eligible to exercise rights at the time of exercising rights. In the present embodiment, the user is an employee, the user registration information acquisition unit 133 functions as an employee registration information acquisition unit, and the user registration information DB 142 functions as an employee registration information DB. The user registration information includes personal information such as the address and name of the employee. This user registration information can also be used as information described in documents submitted to a securities company or a trust bank when exercising stock acquisition right rights.

[0052]

The submission document generation unit 34 generates a file (for example, a CSV file) that becomes a statutory report or a document to be submitted to a securities company or a trust bank when exercising rights, based on the stock acquisition right information acquired by the stock acquisition right information

acquisition unit 31 and the employee registration information acquired by the user registration information acquisition unit 133. The submission document generation unit 34 outputs the generated file to the output control unit 132. Examples of the stock acquisition right information include information obtained by reading a contract or a registration certificate using a scanner or by photographing it with a camera. The contract may be, for example, a stock acquisition right allocation agreement. The registration certificate refers to a registration document including information relating to shares or capital.

[0053]

The new information acquisition unit 135 acquires, from the user terminal 5, information to be registered as stock acquisition right information in the stock acquisition right information DB 41, and information to be registered as user registration information (employee registration information) in the user registration information DB 142. The new information acquisition unit 135 stores the information acquired from the user terminal 5 into the stock acquisition right information DB 41 and the user registration information DB 142.

[0054]

The new information acquisition unit 135 stores the information acquired from the user terminal 5 into the grant value information DB 141 and the user registration information DB 142. In the first embodiment, the new information acquisition unit 135 derives a grant value based on an index set according to information relating to the user, and registers the derived grant value as grant value information in the grant value information DB 141.

[0055]

Information relating to the user may be information input from the user terminal 5 or the company terminal 4, or may be information pre-registered in the user registration information DB 142. Information relating to the user includes,

for example, affiliation information for determining an index or a combination of indices, and an index for deriving a grant value for each user is determined based on the affiliation information. The new information acquisition unit 135 acquires the determined index, derives the grant value based on the numerical value thereof using a predetermined formula or table, and registers the derived grant value in the grant value information DB 141. Numerical values of the respective indices may be automatically acquired from external sources such as stock prices, or may be input from the company terminal 4 or the user terminal 5.

[0056]

The method of deriving the grant value in the first embodiment is merely an example. The method or timing of deriving the grant value is not limited to the configuration of the first embodiment. It is also possible to adopt a configuration in which the grant value itself is input from an external source and registered in the grant value information DB 141.

[0057]

Next, the tax amount output unit 150 will be described. The tax amount output unit 150 outputs, in response to a user's request, the tax imposed on profits generated by exercising stock acquisition rights or exercising rights of grant values. In this example, the tax amount output unit 150 outputs to the user terminal 5 the tax imposed on the user by the exercise or sale of rights, based on an input profit amount, type of income, and tax rate entered by the user or the issuer (administrator). The types of income include, for example, tax-qualified, non-tax-qualified, paid, trust type, and ES (Engagement Stock) as the grant value. Data such as formulas or tables for calculating tax rates according to the type of income are stored, for example, in the storage unit 18 of the information processing apparatus 3 or in an external computer. The tax amount output unit 150 calculates the tax amount based on the information input by the user or the issuer

(administrator).

[0058]

<Processing Relating to Display of Stock acquisition rights>

Next, with reference to FIG. 4, a description will be given of processing relating to display of stock acquisition rights. FIG. 4 is a flowchart illustrating an example of a processing flow relating to display of stock acquisition rights by the information processing apparatus 3. The stock acquisition right information acquisition unit 31 acquires stock acquisition right information stored in the stock acquisition right information DB 41 (Step S1). It is then determined whether the acquired stock acquisition right information is within the exercisable period (Step S2). When the acquired stock acquisition right information is within the exercisable period (Yes in Step S2), the output control unit 132 outputs to the user terminal 5 an indication that there is a stock acquisition right currently exercisable (Step S3). Then, based on the stock acquisition right information, the output control unit 132 outputs to the user terminal 5 graphs of an expenditure amount at the time of exercising the right and an estimated profit amount at the time of sale (Step S4). In contrast, when the acquired stock acquisition right information is not within the exercisable period (No in Step S2), the stock acquisition right information acquisition unit 31 waits until further stock acquisition right information is acquired.

[0059]

Subsequently, the output control unit 132 determines whether the stock acquisition right information acquired by the stock acquisition right information acquisition unit 31 includes a stock acquisition right whose exercisable period will arrive in the future (Step S5). When there is a stock acquisition right whose exercisable period will arrive in the future (Yes in Step S5), the output control unit 132 outputs to the user terminal 5 an indication that there is a stock

acquisition right whose exercisable period will arrive in the future (Step S6), and then terminates the processing (END). In contrast, when there is no stock acquisition right whose exercisable period will arrive in the future (No in Step S5), the output control unit 132 terminates the processing (END).

[0060]

<Processing Relating to Display of Grant Values>

Next, with reference to FIG. 5, a description will be given of processing relating to display of grant values. FIG. 5 is a flowchart illustrating an example of a processing flow relating to display of grant values by the information processing apparatus 3. The grant value information acquisition unit 131 acquires grant value information stored in the grant value information DB 141 (Step S11). It is then determined whether the acquired grant value is within the exercisable period (Step S12). When the acquired grant value information is within the exercisable period (Yes in Step S12), the output control unit 132 outputs to the user terminal 5 an indication that there is a grant value currently exercisable (Step S13). Then, based on the grant value information, the output control unit 132 outputs to the user terminal 5 a graph of an estimated profit amount at the time of exercising the right (Step S14). In contrast, when the acquired grant value is not within the exercisable period (No in Step S12), the processing proceeds to Step S15.

[0061]

Subsequently, the output control unit 132 determines whether the grant value information acquired by the grant value information acquisition unit 131 includes a grant value whose exercisable period will arrive in the future (Step S15). When there is a grant value whose exercisable period will arrive in the future (Yes in Step S15), the output control unit 132 outputs to the user terminal 5 an indication that there is a grant value whose exercisable period will arrive in the future, and advances the processing to Step S17 (Step S16). In contrast, when there is no grant

value whose exercisable period will arrive in the future (No in Step S15), the output control unit 132 terminates the processing (END).

[0062]

Subsequently, the tax amount output unit 150 determines whether there has been a user request (data input) for tax calculation (Step S17). The tax amount output unit 150, when receiving a request for tax amount output from a user through the user terminal 5 (Yes in Step S17), calculates a tax amount based on information input by the user, outputs the calculated tax amount to the user terminal 5 (Step S18), and then terminates the processing (END). In contrast, when there is no tax calculation request from the user (No in Step S17), the tax amount output unit 150 terminates the processing (END).

[0063]

<Display Example>

(Output Screen of User Terminal)

With reference to FIGS. 6 to 12, the output screens of the user terminal 5 in the first embodiment will be described. FIG. 6 is a diagram illustrating an output screen of the user terminal 5 displaying information relating to stock acquisition rights. The screen of FIG. 6 is output to the user terminal 5 by the output control unit 132 based on the stock acquisition right information acquired by the stock acquisition right information acquisition unit 31. The screen of FIG. 6 illustrates a dashboard that displays information relating to stock acquisition rights after a user has performed a login operation by inputting an account and password.

[0064]

In the example of FIG. 6, a display screen selection section 101, a stock acquisition right information display section 102, a graph display section 103, a switching operation section 110, and a selection result display section 111 are illustrated.

[0065]

The display screen selection section 101 is a portion that allows the user to select a screen to be displayed. In this example, the display screen selection section 101 displays, as selectable items, "Dashboard", "Held Stock acquisition rights", "Simple Tax Calculation", "Right Exercise Application", "Notifications", "Learn About SO", "Contract Document Management", and "Registered Information." When the user selects any of these items in the display screen selection section 101 using an input unit of the user terminal 5, such as a mouse, touch input, or keyboard, the content of the selected item is displayed on the output unit of the user terminal 5. As described above, FIG. 6 illustrates a dashboard screen being displayed.

[0066]

The stock acquisition right information display section 102 is a portion that displays information relating to stock acquisition rights. The stock acquisition right information display section 102 displays items such as "Profit at Exercise (Before Tax)", "Stock Price", and "Number of Held Shares".

[0067]

The graph display section 103 is a portion that displays, in graph form, "Profit at Exercise (Before Tax)", "Payment Amount at Issuance", "Exercise Amount", and "Profit at Exercise for Target Amount (Before Tax)". In this example, each item is displayed as a bar graph. Since the stock acquisition right (SO) is granted free of charge at the time of issuance, the "Payment Amount at Issuance" is not displayed in the graph.

[0068]

In this example, the user viewing the screen as illustrated in FIG. 6 holds the right to purchase 400 shares at 1,200 yen per share as a stock option. As of July 2023, the stock price (price per share) is 1,500 yen, and the total exercise

amount of the stock option is 480,000 yen. As illustrated in the graph display section 103, the exercise amount of the stock option remains unchanged in the future, such as in September 2024 or October 2025.

[0069]

At the present time, the selling amount is $1,500 \text{ yen} \times 400 = 600,000 \text{ yen}$. Since the exercise amount is 480,000 yen, as also indicated in the stock acquisition right information display section 102, the profit at the time of exercising the right is $600,000 - 480,000 = 120,000 \text{ yen}$. In the graph display section 103, the profits at the time of exercising the right in the future, such as in September 2024 and October 2025, are displayed as profits at the time of exercising the right for the target amount. In this example, it is assumed that the stock price rises to 3,000 yen per share in September 2024 and to 5,000 yen per share in October 2025. If the stock option is exercised and the shares are sold in the assumed September 2024, the selling amount will be 1,200,000 yen, resulting in a profit of 720,000 yen. If the stock option is exercised and the shares are sold in the assumed October 2025, the selling amount will be 2,000,000 yen, resulting in a profit of 1,520,000 yen. The future stock prices may be based on information input by the issuer as described above, or on information automatically acquired from an external computer.

[0070]

The switching operation section 110 is a portion for the user to select whether to display information relating to stock acquisition rights or information relating to grant values. In this example, when the user selects the switching operation section 110 using an input unit such as a mouse, touch input, or keyboard of the user terminal 5, "Company A (SO)" and "Company A (ES)" are displayed in a pull-down menu. When "Company A (SO)" is selected from the displayed pull-down menu, information relating to stock acquisition rights, such as that illustrated in FIG. 6, is displayed on the user terminal 5. Then, the display of the selection result

display section 111 becomes "Company A (SO)", indicating the selection result of the user.

[0071]

When "Company A (ES)" is selected from the displayed pull-down menu, information relating to grant values, such as that illustrated in FIG. 7, is displayed on the user terminal 5. FIG. 7 is a diagram illustrating an output screen of the user terminal 5 displaying information relating to grant values. The screen of FIG. 7 is output to the user terminal 5 by the output control unit 132 based on the grant value information acquired by the grant value information acquisition unit 131. The screen of FIG. 7 illustrates a dashboard that displays information relating to grant values after a user has performed a login operation by inputting an account and password.

[0072]

In the example of FIG. 7, a display screen selection section 101, a grant value right information display section 121, a graph display section 122, a switching operation section 110, and a selection result display section 111 are illustrated.

[0073]

The display screen selection section 101 is the same as the display screen selection section 101 illustrated in FIG. 6, except that the display of the item "Held Stock acquisition rights" is replaced with "Held ES Rights". The "Held ES Rights" is a selection item for displaying information relating to held grant values. The display content of the selection result display section 111 is changed from "Company A (SO)" to "Company A (ES)".

[0074]

The grant value right information display section 121 is a portion that displays information relating to grant values. The grant value right information display section 121 displays items such as "Profit at Exercise (Before Tax)", "ES

Value", and "Number of Held ES".

[0075]

The graph display section 122 is a portion that displays, in graph form, "Profit at Exercise (Before Tax)", "Payment Amount at Issuance", "Exercise Amount", and "Profit at Exercise for Target ES Value (Before Tax)". In this example, each item is displayed as a bar graph. Since ES is granted free of charge at the time of issuance, the "Payment Amount at Issuance" is not displayed in the graph. Similarly, the "Exercise Amount" is not displayed in the graph because, unlike SO, it is zero.

[0076]

In this example, the user viewing the screen as illustrated in FIG. 7 holds the right to exercise 400 ES (units) as grant values, each having an ES value of 1,500 yen. That is, in the example illustrated in FIG. 7 (and subsequent figures), the string "ES" is used as the unit representing the quantity of grant values. The ES value illustrated in FIG. 7 represents the price per ES and is linked to the index designated by the issuer. As described above, the index is a numerical value or standard specified by the issuer, such as stock price or overall operating profit of the issuer. Unlike stock acquisition rights, the grant value has no concept corresponding to an exercise amount.

[0077]

When July 2023 is considered as the present time, the profit at the time of exercising the right is $1,500 \text{ yen} \times 400 = 600,000 \text{ yen}$. In the graph display section 122, profits at the time of exercising the right in the future, such as in September 2024 and February 2026, are displayed as profits at the time of exercising the right for the target ES value. In this example, it is assumed that the ES value rises to 3,000 yen per ES in September 2024 and to 8,000 yen per ES in February 2026. If the right of the grant value is exercised in the assumed September 2024, the profit will be 1,200,000 yen. If the right of the grant value is exercised in the assumed

February 2026, the profit will be 3,200,000 yen. As described above, the ES value may be based on information input by the issuer or on information automatically acquired from an external computer.

[0078]

The switching operation section 110 has the same function as that shown in FIG. 6. The selection result display section 111 displays "Company A (ES)" selected by the user.

[0079]

When "Held ES Rights" in the display screen selection section 101 is selected by the user in the state illustrated in FIG. 7, the content displayed on the user terminal 5 switches to information relating to held ES, as illustrated in FIG. 8. FIG. 8 is a diagram illustrating an output screen of the user terminal 5 displaying information relating to exercise of rights of grant values.

[0080]

In the example of FIG. 8, a display screen selection section 101, a switching operation section 110, a selection result display section 111, a held quantity display section 123, a right exercise information display section 124, and a detailed information instruction section 130 are illustrated.

[0081]

The held quantity display section 123 displays items relating to the number of ES as grant values held by the user, such as "Total Number of Rights", "Number of Exercisable Rights", and "Number of Held ES". Since this stage is not within the right exercise period, the total number of rights is 400, the number of exercisable rights is 0, and the number of held ES is 0.

[0082]

The right exercise information display section 124 displays a breakdown of the status of ES as grant values, such as "Initially Granted Quantity", "Number of

Exercised Rights", "Exercised Rights", "Number of Exercisable Rights", and "Number of Expired Rights". The right exercise information display section 124 also displays the "Right Exercise Period". As illustrated in the example of FIG. 8, the issuer may set the right exercise period as a predetermined period within one year, or may specify it upon retirement or other timing.

[0083]

The detailed information instruction section 130 is an operation section for displaying further information relating to right exercise. When the user selects "First Engagement Stock" in the detailed information instruction section 130 using an input unit such as a mouse, touch input, or keyboard of the user terminal 5, a screen with the content illustrated in FIG. 9 is displayed. FIG. 9 is a diagram illustrating an output screen of the user terminal 5 displaying detailed information relating to exercise of rights of grant values.

[0084]

In the example of FIG. 9, a display screen selection section 101, a switching operation section 110, a selection result display section 111, a basic information display section 125, and a right exercise detailed information display section 126 are displayed.

[0085]

The basic information display section 125 displays various items of information relating to the grant value. In this example, information such as "Round" indicating the issuance round of the grant value, "Type", "Category", "Initially Granted Quantity", "Number of Rights", "Number of Exercisable Rights", "Exercised Rights", "Number of Expired Rights", "ES Classification", "Board Resolution Date", "Shareholders' Meeting Resolution Date", "Issuance Date", and "Number of ES per ES Right" is displayed along with corresponding statuses or numerical values. Since the ES as the grant value does not require a board resolution or shareholders'

meeting resolution, those fields are blank. However, when the issuance of ES involves a board resolution or shareholders' meeting resolution, the corresponding dates may be entered.

[0086]

The right exercise detailed information display section 126 displays detailed information relating to the right exercise period. In this example, various types of information such as "Exercisable Period", "Exercisable Ratio", and "Vesting Conditions" are displayed along with corresponding statuses or numerical values. For the user viewing the screen illustrated in FIG. 9, the vesting conditions are set as "Being employed by the company" and "Having elapsed at least three years after issuance". A check section 127 is displayed for confirming whether these conditions are satisfied, and when the check section 127 is marked, it indicates that the vesting conditions are fulfilled. The issuance date is July 7, 2023, and since the vesting conditions can be easily confirmed, this contributes to improved employee retention and motivation. The vesting conditions may be set for the entire company or individually for each user. For example, "Being employed by the company" and "Having elapsed at least three years after issuance" may be used as company-wide vesting conditions, and additional user-specific vesting conditions such as operating profit of the company (for example, a certain level of profitability) or working conditions (for example, an attendance rate of 80%) may be added.

[0087]

In this example, when the user wishes to exercise the grant value during the right exercise period set between July 14, 2023, and July 21, 2023, the user performs a selection operation on "Right Exercise Application" in the display screen selection section 101. Through this operation, the content displayed on the user terminal 5 switches to information relating to the right exercise application, as illustrated in FIG. 10. Even if the user does not submit a right exercise application during

the period between July 14, 2023, and July 21, 2023, the user can submit a right exercise application during the next right exercise period (for example, one year later). For the issuing company and its accounting department, limiting the right exercise period to a predetermined period within one year facilitates management.

[0088]

FIG. 10 is a diagram illustrating an output screen of the user terminal 5 displaying information relating to an application for exercising rights of grant values. In the example of FIG. 10, a display screen selection section 101, a switching operation section 110, a selection result display section 111, an application list display section 128, and an application registration section 129 are displayed.

[0089]

The application list display section 128 displays information relating to the user's submitted right exercise applications. The application list display section 128 displays, along with numerical values or statuses, items relating to ES as grant values for which applications have been made in the past, such as "Application Date", "Application Type", "Name of ES", "Number of Exercises", "Number of ES Sold", and "Status". The application registration section 129 is a section for the user to newly register an ES right exercise. When the application registration section 129 is operated, the screen of the user terminal 5 transitions to a registration screen.

[0090]

When the user wishes to check the tax incurred by exercising rights of stock options or ES as a grant value, the user performs a selection operation on "Simple Tax Calculation" in the display screen selection section 101. Through this operation, the content displayed on the user terminal 5 switches to information relating to tax calculation, as illustrated in FIG. 11. FIG. 11 is a diagram illustrating an output screen of the user terminal 5 for tax amount calculation input.

[0091]

In the example of FIG. 11, a calculation data input section 151, a calculation instruction section 152, a display screen selection section 101, a grant value right information display section 121, a graph display section 122, a switching operation section 110, and a selection result display section 111 are illustrated. Among these, the display screen selection section 101, the grant value right information display section 121, the graph display section 122, the switching operation section 110, and the selection result display section 111 are the same as those illustrated in FIG. 7.

[0092]

The calculation data input section 151 is a set of input boxes for entering information necessary for calculating the tax amount. In this example, tax calculation is performed on ES as a grant value, and a plurality of input boxes such as "Type of Right", "Salary Income", and "Engagement Stock Income" are provided. The "Type of Right" is information set by selecting from a pull-down menu. The pull-down menu displays, for example, "Tax-qualified", "Non-tax-qualified", "Paid", "Trust Type", and "Engagement Stock". In the example of FIG. 11, "Engagement Stock" is selected by the user. The "Salary Income" box may be directly entered by the user or may be automatically filled based on information pre-associated with the user. The "Engagement Stock Income" box is for entering a pre-tax value to be obtained through exercise of rights. In this example, although the type of right is selected via a pull-down menu, the configuration is not limited thereto. When "Stock acquisition right" is selected in the switching operation section 110, the display of "Type of Right" may be switched to "Stock acquisition right", and when ES as a grant value is selected, the display of "Type of Right" may be switched to "ES Right Classification".

[0093]

The calculation instruction section 152 is a section that the user selects after entering data in the calculation data input section 151 through an input unit. When the calculation instruction section 152 is selected, calculation by the tax amount output unit 150 is started. In the example illustrated in FIG. 11, the user sets "Engagement Stock" as the status of the "Type of Right (ES Right Classification)", inputs 5,000,000 yen in the "Salary Income" box, and inputs 600,000 yen in the "Engagement Stock Income" box.

[0094]

When the calculation instruction section 152 is selected by the user after data entry has been completed as illustrated in FIG. 11, the output screen displayed on the user terminal 5 transitions to a screen illustrating the calculation results, as illustrated in FIG. 12. FIG. 12 is a diagram illustrating an output screen of the user terminal 5 illustrating tax calculation results.

[0095]

In the example of FIG. 12, a display screen selection section 101, a tax calculation result display section 171, and a simple tax calculation display section 172 are illustrated. The tax calculation result display section 171 and the simple tax calculation display section 172 display the calculation results obtained by the tax amount output unit 150 based on the data input by the user.

[0096]

In the tax calculation result display section 171, the following calculation results are displayed: "Type of Right" as Engagement Stock, "Salary Income" as 5,000,000 yen, "Engagement Stock Income" as 600,000 yen, "Total Tax Amount" as 648,900 yen, and "Net Income" as 4,951,100 yen. In the simple tax calculation display section 172, the following calculation results are displayed: "Total Income" as 5,600,000 yen, "Salary Income Deduction" as 1,560,000 yen, "Taxable Salary Income" as 4,040,000 yen, "Basic Deduction" as 480,000 yen, "Taxable Income" as 3,560,000

yen, "Income Tax Rate" as 20%, "Deduction Amount" as 427,500 yen, "Income Tax Amount" as 284,500 yen, "Reconstruction Tax Amount" as 5,900 yen, "Resident Tax Amount" as 358,500 yen, "Capital Gains Tax Rate" as 0.0%, "Capital Gains Tax" as 0 yen, "Total Tax Amount" as 648,900 yen, and "Net Income" as 4,951,100 yen.

[0097]

In the examples described with reference to FIGS. 6 to 12, the user views stock options or grant values of a single organization (Company A). However, the configuration is not limited thereto. For example, settings may be made such that a single user can view stock options or grant values of a plurality of organizations, such as Company A and Company B. In this case, when the switching operation section 110 is selected, a pull-down menu is displayed illustrating "Company A (SO)", "Company A (ES)", "Company B (SO)", and "Company B (ES)". Then, the selection result display section 111 displays information corresponding to the selected result.

[0098]

In the screens illustrated in FIGS. 6 to 12, SO and ES were displayed on separate screens and switched between them. However, the configuration is not limited thereto. When the user holds both SO and ES rights, information for both may be output on a combined screen. For example, the output control unit 132 may simultaneously output information based on the user's stock acquisition right information and information based on the grant value information. The tax amount output unit 150 may also output a tax amount calculated by taking both SO and ES rights into consideration when the user holds both types of rights.

[0099]

(Output Screen of Company Terminal 4)

With reference to FIGS. 13 and 14, the output screens of the company terminal 4 output by the information processing apparatus 3 will be described.

[0100]

FIG. 13 is a diagram illustrating an output screen of the company terminal 4 displaying information relating to stock acquisition rights. The screen of FIG. 13 illustrates a dashboard that displays information relating to stock options after an administrator has performed a login operation by inputting an account and password. In the example of FIG. 13, a display screen selection section 161, a right exercise information display section 162, a round information display section 163, a switching operation section 165, and a selection result display section 166 are illustrated.

[0101]

The display screen selection section 161 is a section that allows the administrator to select a screen to be displayed. In this example, the display screen selection section 161 displays, as selectable items, "Dashboard", "Stock acquisition right Management", "Employee Management", "Right Exercise Management", "Company Information", "Stock Price Management", "Inquiry Management", "Notification Management", and "Contract Document Management". When the administrator selects any of these items in the display screen selection section 161 using an input unit of the company terminal 4 such as a mouse, touch input, or keyboard, the content of the selected item is displayed on the output unit of the company terminal 4. In FIG. 13, the dashboard screen is displayed.

[0102]

The right exercise information display section 162 displays overall information relating to stock options, such as "Number of Issued Units", "Number of Exercisable Rights", and "Number of Exercised Rights". The round information display section 163 displays information for each round in which stock options are issued. In this example, the round information display section 163 displays items and their corresponding statuses or numerical values, such as "Round" (First Stock), "Stock acquisition right Classification" (Gratis), "Right Exercise Period" (from July 14, 2023, to July 21, 2023), "Initially Granted Quantity" (1000), "Number of Exercisable

Rights" (0), "Number of Exercised Rights" (0), "Number of Expired Rights" (0), and "Own Stock acquisition rights" (0). The term "Gratis" in "Stock acquisition right Classification" refers to the concept of granting stock options free of charge and does not mean that the exercise price of the stock options is free of charge when exercised.

[0103]

By outputting a management screen such as illustrated in FIG. 13 to the company terminal 4, the administrator can easily grasp and manage various types of information relating to stock options. For example, by performing a selection operation on "Stock Price Management" in the display screen selection section 161, the administrator can cause the output screen of the company terminal 4 to transition to a screen on which future stock prices can be set.

[0104]

The switching operation section 165 is a section that allows the administrator to select whether to display information relating to stock acquisition rights or information relating to grant values. In this example, when the administrator selects the switching operation section 165 using an input unit such as a mouse, touch input, or keyboard of the company terminal 4, "Company A (SO)" and "Company A (ES)" are displayed in a pull-down menu. When "Company A (SO)" is selected from the displayed pull-down menu, information relating to stock acquisition rights, such as that illustrated in FIG. 13, is displayed on the company terminal 4. Then, the display of the selection result display section 166 becomes "Company A (SO)", indicating the administrator's selection result.

[0105]

When "Company A (ES)" is selected from the displayed pull-down menu, information relating to grant values, such as illustrated in FIG. 14, is displayed on the user terminal 5. FIG. 14 is a diagram illustrating an output screen of the

company terminal 4 displaying information relating to grant values. The screen of FIG. 14 illustrates a dashboard that displays information relating to grant values after the administrator has performed a login operation by inputting an account and password.

[0106]

In the example of FIG. 14, a display screen selection section 161, a right exercise information display section 167, a round information display section 168, a switching operation section 165, and a selection result display section 166 are illustrated.

[0107]

The display screen selection section 161 is the same as that illustrated in FIG. 14, except that the item corresponding to "Stock acquisition right Management" is changed to "ES Right Management", and the item corresponding to "Stock Price Management" is changed to "ES Value Management". The display content of the selection result display section 166 is changed from "Company A (SO)" to "Company A (ES)".

[0108]

The right exercise information display section 167 displays overall information relating to ES as grant values, such as "Number of Issued Units", "Number of Exercisable Rights", and "Number of Exercised Rights". The round information display section 168 displays information for each round in which rights to use the grant values are issued. In this example, the round information display section 163 displays items and their corresponding statuses or numerical values, such as "Round" (First Stock), "ES Right Classification" (Gratis), "Right Exercise Period" (from July 14, 2023, to July 21, 2023), "Initially Granted Quantity" (1000), "Number of Exercisable Rights" (0), "Number of Exercised Rights" (0), "Number of Expired Rights" (0), and "ES Rights" (0). The term "Gratis" in "ES Right Classification" unit that

the ES as the grant value is granted free of charge.

[0109]

By outputting a management screen as illustrated in FIG. 14 to the company terminal 4, the administrator can easily grasp and manage various types of information relating to ES as grant values. For example, by performing a selection operation on "ES Value Management" in the display screen selection section 161, the administrator can cause the output screen of the company terminal 4 to transition to a screen on which future ES values can be set.

[0110]

FIGS. 13 and 14 illustrate output screens viewed by an administrator. A band-shaped bar 191 located at the upper portion of each output screen, where the switching operation section 165 and the selection result display section 166 are displayed, is illustrated in a first display color (for example, blue). Meanwhile, in the output screens viewed by users illustrated in FIGS. 6 to 12, a band-shaped bar 190 located at the upper portion of each screen, where the switching operation section 110 and the selection result display section 111 are displayed, is illustrated in a second display color (for example, dark navy), which differs from the first display color.

[0111]

<Functional Configuration of Second Embodiment>

Next, an information processing apparatus 3a according to a second embodiment will be described. In the following description, components of the information processing apparatus 3a that are common to or similar to those in the first embodiment are denoted by the same reference numerals, and detailed description thereof may be omitted.

[0112]

FIG. 15 is a functional block diagram illustrating an example of a functional

configuration of the information processing apparatus 3a according to the second embodiment. The information processing apparatus 3a is applied to the information processing system 1 including the same configuration as that of the first embodiment. The hardware that realizes the functional configuration of the information processing apparatus 3a is the same as that of the first embodiment.

[0113]

In the CPU 11 of the information processing apparatus 3a, the following functional units operate: a stock acquisition right information acquisition unit 31, a grant value information acquisition unit 131, an output control unit 132, a user registration information acquisition unit 133, a submission document generation unit 34, a new information acquisition unit 135, a tax amount output unit 150, a grant value derivation method setting unit 170, a document distribution unit 181, and a cost processing proposal unit 182. A region of the storage unit 18 of the information processing apparatus 3 includes a stock acquisition right information DB 41, a grant value information DB 141, and a user registration information DB 142. Among these components, the stock acquisition right information acquisition unit 31, the grant value information acquisition unit 131, the output control unit 132, the user registration information acquisition unit 133, the submission document generation unit 34, the new information acquisition unit 135, the tax amount output unit 150, the stock acquisition right information DB 41, the grant value information DB 141, and the user registration information DB 142 have the same configurations as in the first embodiment.

[0114]

The grant value derivation method setting unit 170 serves as a grant value calculation method setting unit that sets a method for calculating the grant value itself granted by the grant value information acquisition unit 131. The monetary value of the grant value calculated here corresponds to an amount equivalent to

money per predetermined unit.

[0115]

The method for calculating the grant value can be changed according to the selection of the company granting the grant value. The grant value derivation method setting unit 170 of the present embodiment allows selection, as the calculation method, between a variable type in which the monetary value of the grant value fluctuates in conjunction with an index, and a fixed type in which the monetary value of the grant value is fixed.

[0116]

In the variable type, the monetary value of the grant value fluctuates in conjunction with a predetermined index (parameter). As in the first embodiment, the index may include market figures such as a company's stock price, number of shares, or yen value, as well as KPIs such as the issuer's sales, operating profit, retained earnings, profit before income tax, net profit for the current period, corporate value, share value, return on equity (ROE), return on total assets (ROA), environmental initiative indicators, number of new customers, production volume, and operational efficiency. The monetary value of the grant value is calculated based on a formula or table including the predetermined index. Since the monetary value of the grant value varies according to the index, the same number of predetermined units may have a monetary value of 5,000 yen or 10,000 yen, resulting in fluctuation in monetary value.

[0117]

In the variable type calculation method, a formula or table that specifies an index or a coefficient applied to the index can be set either for each group based on attributes such as the organization or position to which the user belongs, or for each individual user. For example, different calculation methods for determining the monetary value can be set for each company within the same corporate group,

between a parent company and its subsidiaries, between a headquarters and branch offices, or for each department.

[0118]

Furthermore, when the index is set to operating profit or similar indicators, the grant value derivation method setting unit 170 of the present embodiment can be configured, from an information management perspective, not to display the calculation method to the user so that operating profit or KPIs are not disclosed. For example, when operating profit or a KPI is used as an index, and the monetary value per unit of grant value is defined as the value obtained by dividing the index by the total number of issued grant values, the user could determine the operating profit or KPI by multiplying the monetary value per unit by the total number of issued units. However, in some cases, the company may not wish to disclose operating profit or KPIs to all users for strategic reasons. In such a case, the grant value derivation method setting unit 170 can be configured not to display the total number of issued units so that the user cannot identify the operating profit or KPI serving as the basis for calculation of the grant value, or can be configured to disclose to the user the operating profit or KPI used as the calculation basis in an indirect numerical form such as a percentage.

[0119]

In the fixed type, the monetary value per unit of grant value is fixed, and the monetary value of the grant value does not fluctuate. The fixed-type grant value may be determined such that the fixed value and total number of units are established based on the amount set as a budget for granting the grant value, and the grant values are distributed to users according to the total number of units. In this case, the total budget for granting the grant values matches the fixed monetary value per unit multiplied by the number of units. For example, when the monetary value per unit is set to 5,000 yen in the fixed type, the monetary value

of 10 units becomes 50,000 yen; when the monetary value per unit is set to 10,000 yen, the monetary value of 10 units becomes 100,000 yen.

[0120]

The fixed monetary value can be set either for each group based on attributes such as the organization or role to which the user belongs, or individually for each user. For example, different fixed monetary values can be set for each company within the same corporate group, between a parent company and its subsidiaries, between a headquarters and branch offices, or for each department.

[0121]

The grant value derivation method setting unit 170 of the present embodiment can also employ a combination of the variable type and the fixed type. For example, even within the same company, the variable or fixed type can be set respectively according to the department, business category, or responsibility. More specifically, the variable type may be set for users belonging to departments such as sales or development, where the monetary value varies depending on performance, thereby enhancing incentives for work, while the fixed type may be set for administrative departments such as accounting or general affairs, where continuity and stability are prioritized.

[0122]

The document distribution unit 181 serves as a document distribution processing unit for assigning documents of a predetermined format to users. The documents of a predetermined format are, for example, document data such as contracts relating to stock acquisition rights or grant values. The document distribution unit 181 is set with processing rules for assigning specific documents to target users based on file names.

[0123]

When data including predetermined documents is uploaded from the company

terminal 4 used by a corporate administrator to the document distribution unit 181, the unit executes processing to assign the corresponding documents to target users based on the file names. The data including predetermined documents may be, for example, data in which a folder containing the documents is compressed in ZIP format. As a result, users such as employees designated as recipients can view the documents on the user terminal 5. Since the documents can be distributed automatically, the corporate burden associated with distributing such documents can be effectively reduced.

[0124]

The cost processing proposal unit 182 serves as a cost processing proposal unit for presenting information relating to future financial resources required when ES provided to users are converted into money. The cost processing proposal unit 182 performs a simulation to calculate a reserve fund (financial resource for grant value payment) based on an amount required when the grant values granted to users are converted into money. The cost processing proposal unit 182 may perform the simulation again each time the granted grant value fluctuates, or may perform the simulation with a margin in anticipation of future fluctuations. The forward-looking simulation may be performed based on a theoretical or empirical formula, or may be performed using a learning model constructed through machine learning or similar techniques. The simulation results can be checked on the company terminal 4 used by financial officers or other responsible staff of the company.

[0125]

The cost processing proposal unit 182 may also perform a simulation of the number of grant values to be issued in the future based on the simulation results. The simulation of the number of issuances may be performed based on a theoretical or empirical formula, or may be executed using a learning model constructed through machine learning or similar techniques. This simulation result can also be checked

on the company terminal 4 used by financial officers or other responsible personnel of the company.

[0126]

While the information processing apparatus 3 of the first embodiment and the information processing apparatus 3a of the second embodiment have been described above, the present invention is not limited to these configurations. For example, certain functional units such as the document distribution unit 181 or the cost processing proposal unit 182 included in the information processing apparatus 3a of the second embodiment may be omitted. In some cases, settings may be added in which the ES as a grant value is converted into part of a salary or remuneration according to the user's preference, or in which a payment by the user is required in order to acquire ES, depending on the company's policy.

[0127]

Among the functional units included in the information processing apparatus 3 of the first embodiment and the information processing apparatus 3a of the second embodiment, the stock acquisition right information acquisition unit 31 and the stock acquisition right information DB 41 may be omitted, thereby omitting functions relating to stock acquisition rights. This applies to cases such as small and medium-sized companies that do not plan to be publicly listed, where motivation for continued employment can be provided through the granting of grant values even when stock acquisition rights are not issued.

[0128]

<Display Example Relating to Stock acquisition right Information>

Next, with reference to FIGS. 16 and 17, output screens of the user terminal 5 relating to stock acquisition right information that differ from those in the first and second embodiments will be described. FIG. 16 is a diagram illustrating an output screen of the user terminal 5. FIG. 17 is a diagram illustrating another

output screen of the user terminal 5. As illustrated in FIGS. 16 and 17, a bar 190 located at least at the upper portion of the output screen of the user terminal 5 is displayed in a second display color (for example, blue in the case of a positive value and red in the case of a negative value) that differs from the first display color of the bar 191 located at least at the upper portion of the output screen of the company terminal 4 (see FIG. 18).

[0129]

As illustrated in FIG. 16, the output screen of the user terminal 5 displays the text "There are stock acquisition rights currently exercisable", thereby outputting an indication that there are stock acquisition rights currently within an exercisable period. This output screen also displays the text "Exercisable Period: December 31, 2021 - December 31, 2024", thereby outputting the exercisable period. The exercisable period indicates that a period immediately before the exercisable period (for example, until December 30, 2021) was a non-exercisable period.

[0130]

This output screen also displays the text "Vesting Schedule (As of 2022-09-01)" and, for example, the texts "2023-09-01, 1st Stock acquisition right Right Exercise Start, Expected Return of 7.89 million yen" and "2023-12-01, 2nd Stock acquisition right, Right Exercise Start, Expected Return of 4.455 million yen", thereby outputting an indication that there are stock acquisition rights whose exercisable periods will arrive in the future.

[0131]

As illustrated in FIG. 17, the output screen of the user terminal 5 displays graphs of expenditure amounts at the time of exercising rights and estimated profit amounts at the time of sale. Specifically, in this output screen, for a plurality of future periods, the expenditure amounts at the time of exercising rights and the

estimated profit amounts at the time of sale are displayed as vertical bar graphs. The expenditure amounts are illustrated as the lower (negative) bars, for example, in red. The estimated profit amounts are illustrated as the upper (positive) bars, for example, in blue. The total income amount at the time of sale is represented by the full length of each bar (both upper and lower portions combined). The plurality of periods displayed by each bar can be changed as appropriate through settings. For post-listing cases, since stock prices can be acquired in real time, the periods may be set, for example, on a daily basis (stock prices at a predetermined time each day). For pre-listing (unlisted) cases, since stock prices are calculated by specialists, the periods may be set, for example, on a quarterly basis when stock price evaluation is requested quarterly.

[0132]

(Output Screen of Company Terminal 4)

With reference to FIG. 18, an example of an output screen of the company terminal 4 differing from those of the first and second embodiments will be described. FIG. 18 is a diagram illustrating an output screen of the company terminal 4. As illustrated in FIG. 18, a bar 191 located at least at the upper portion of the output screen of the company terminal 4 is displayed in a first display color (for example, pink).

[0133]

<Advantageous Effects of the Present Embodiment>

According to the embodiments described above, a user can easily grasp the status of stock options and grant values held by the user. It becomes possible to easily grasp the status of benefits granted in a form suitable for the user in order to enhance a sense of belonging to the company and to improve motivation.

[0134]

In short, ES (an example of a grant value) can be regarded as a bonus system

corresponding to performance. Specifically, ES (the grant value) is linked to an index designated by an issuer that issues ES (grants the grant value). Accordingly, motivation to improve that index increases for employees (users) to whom ES are issued.

[0135]

Furthermore, executives (issuers) or the like of a company can designate indices for each user from among a plurality of candidate indices. Therefore, the company executives or the like can designate indices corresponding to the direction (policy) that the company aims to pursue. As a result, the company can progress in the direction (policy) intended by its executives or the like.

[0136]

Company executives or the like can provide employees with ES (an example of a grant value) together with stock options (an example of stock acquisition rights). As described above, stock options are linked to parameters such as stock prices and have concepts such as the number of shares and exercisable periods. ES are linked to parameters such as designated indices and have concepts such as the number of ES and exercisable periods. Thus, stock options and ES are similar in nature. In other words, in the present embodiment, ES are presented to employees as if they were shares. As a result, employees holding ES perceive them as if they own shares, thereby fostering a sense of participation in corporate management. Consequently, employees aim for continuous improvement of the company's stock price or designated indices, and by gaining incentives from the realization thereof, turnover can be prevented. Additionally, ES payments can be recorded as deductible expenses, providing a tax advantage. From a management strategy perspective, when a company wishes to concentrate share ownership among specific owners, issuing grant values as an alternative to stock acquisition rights can also prevent share dilution.

[0137]

Conventional bonuses, generally speaking, can be regarded as short-term incentives. Specifically, for example, when bonuses are paid twice a year, the amount corresponding to operating profit or similar performance over a half-year period is paid to employees. In other words, both the timing of the performance aggregation, such as operating profit, and the timing of the bonus payment are on the order of several months. In contrast, in the present embodiment, the ES can be configured to have an exercisable period longer than one year, such as three to five years. That is, by setting an index in accordance with a medium- to long-term business plan, it becomes possible to design the ES system accordingly. A fiscal-year-end bonus is distributed in accordance with the performance of that year. In contrast, by converting the fiscal-year-end bonus into ES that can be exchanged for money after two years or more, if an employee resigns in the year following the fiscal year in which the bonus was distributed, the ES will expire. Accordingly, it becomes possible to prevent resignations in the year following the payment of a fiscal-year-end bonus and to provide continuous motivation for long-term employment. Grant values impose no financial burden on employees, allow them to enjoy future monetary rewards, and can also serve as part of a welfare benefits system. Since ES are not salaries, it is easy to maintain existing wage structures (salary systems) while adding ES as a new incentive. It is also easy to expand the scope of grant value recipients to include part-time workers or contractors. For example, when many employees tend to leave within three years, the exercisable period of ES may be set to three years or longer.

[0138]

Furthermore, as noted above, the conventional bonus — namely, the bonus distributed when operating profit is achieved (the so-called “bonus”) — has only a transient effect in reality. Employees tend to react emotionally to short-term performance results, rejoicing or despairing at the time of short-term payments

following short-term profits. Moreover, when the bonus is smaller than expected, it can lead to increased disappointment among employees. In contrast, in the case of ES, employees maintain interest in the designated index over a medium- to long-term period and can be motivated to improve the parameters of the designated index. Even when a large company establishes a subsidiary or acquires another company in order to conduct new business, the granting of ES can provide employees with motivation to achieve medium- to long-term corporate objectives.

[0139]

(Other)

While one embodiment of the present invention has been described above, the present invention is not limited to the aforementioned embodiment, and various modifications, improvements, and alternatives that can achieve the object of the present invention are also included within the scope of the present invention.

[0140]

For example, the series of processing described above may be executed by hardware or may be executed by software. In other words, the functional configuration described above is merely an example and is not particularly limited. That is, it is sufficient for the information processing system to include functions capable of executing the series of processing as a whole, and the types of functional blocks used to realize these functions are not limited to the examples described above. The locations of the functional blocks are also not limited and may be arbitrarily determined. For example, the functional blocks of a server may be transferred to other devices, or conversely, the functional blocks of other devices may be transferred to a server. A single functional block may be configured solely by hardware, solely by software, or by a combination thereof.

[0141]

When the series of processing is executed by software, a program constituting

the software is installed in a computer or the like from a network or a recording medium. The computer may be one embedded in dedicated hardware. Alternatively, the computer may be a general-purpose device capable of executing various functions by installing various programs, such as a server, smartphone, or personal computer.

[0142]

A recording medium including such a program may not only be a removable medium (not illustrated) distributed separately from the apparatus main body for providing the program to a user, but may also be a recording medium provided to the user with the program preinstalled in the apparatus main body. Since the program can be distributed via a network, the recording medium may be a computer connected to, or connectable to, a network, and may be a computer equipped with or capable of accessing the program.

[0143]

In the present specification, the steps describing a program recorded on a recording medium include not only processes executed sequentially in the described order, but also processes executed in parallel or independently, and are not necessarily limited to chronological execution. In the present specification, the term "system" refers to an overall apparatus composed of a plurality of devices or a plurality of units.

[0144]

In other words, the information processing apparatus to which the present invention is applied can take various embodiments including the following configuration. That is, (1) the information processing apparatus (for example, the information processing apparatus 3 illustrated in FIG. 3 or the information processing apparatus 3a illustrated in FIG. 15) to which the present invention is applied includes: a grant value information storage unit (for example, the grant value information DB 141) configured to store grant value information including

information relating to a grant value calculated based on a designated index and to a period during which the grant value can be exercised; a grant value information acquisition unit (the grant value information acquisition unit 131) configured to acquire the grant value information from the grant value information storage unit; and an output control unit (for example, the output control unit 132) configured to output, to a predetermined user, an indication that there is the grant value information when the grant value information acquired by the grant value information acquisition unit includes the grant value that can be exercised by the predetermined user currently or in the future. Accordingly, it becomes possible to easily grasp the status of benefits of grant values provided in a form suitable for users, in order to enhance a sense of belonging to the company and to improve motivation. For example, ES as a grant value can be regarded as a medium- to long-term reward and serves as a motivator for users to improve company value or parameters in the short term. Even for users who plan to change jobs four to five years later, exercising the right at the time of resignation becomes a goal.

[0145]

(2) The grant value information storage unit, using at least one index selected from among a plurality of candidate indices as the index, is configured to store the grant value information relating to the grant value designated for each of a plurality of users including the predetermined user. As a result, indices are set for each of the plurality of users. That is, the grant value is calculated based on an index suitable for each individual user. Specifically, for example, for a user in a sales position responsible for developing new customers, the index "number of new customers" is set. Accordingly, the user in the sales position is motivated to make sales efforts to increase the number of new customers. Thus, each user is expected to make efforts to improve the index designated for that user.

[0146]

(3) The plurality of candidate indices include at least one of stock price, sales, operating profit, retained earnings, profit before income tax, net profit for the current period, corporate value, share value, return on equity, return on total assets, environmental initiative indicators, number of new customers, production volume, or operational efficiency. As a result, the grant value can be provided in a form more suitable for the user. Since the grant value is calculated according to an index designated based on the preferences of the issuer granting the grant value or the user engaged in the business, advantages that match the company's actual conditions and business scope are provided.

[0147]

(4) The information processing apparatus further includes a grant value derivation method setting unit (for example, the grant value derivation method setting unit 170) configured to allow selection between a variable type, in which a monetary value of the grant value is determined based on the index that fluctuates, and a fixed type, in which a monetary value of the grant value is determined based on the index having a fixed value that does not fluctuate, as a method for setting a monetary value of the grant value. Accordingly, the calculation method for the grant value can be selected according to industry or field, thereby enabling more effective motivation for users.

[0148]

(5) The grant value derivation method setting unit is configured to be capable of setting the variable type or the fixed type for each user or for each group to which the user belongs. As a result, the calculation method for the grant value can be configured for each user or group, allowing both the variable and fixed types to be used in combination within the same company that adopts the information processing system 1. Since the calculation method for the grant value can be selected according to business category or role, it is possible to provide motivation that is even more

suited to each user.

[0149]

(6) The information processing apparatus further includes a stock acquisition right information storage unit (for example, the stock acquisition right information DB 41) configured to store stock acquisition right information including information relating to an exercisable period; and a stock acquisition right information acquisition unit (for example, the stock acquisition right information acquisition unit 31) configured to acquire the stock acquisition right information from the stock acquisition right information storage unit, in which the output control unit outputs, to the predetermined user, an indication that there is a currently exercisable stock acquisition right when the stock acquisition right information acquired by the stock acquisition right information acquisition unit includes the stock acquisition right information relating to a stock acquisition right that is currently within an exercisable period by the predetermined user. Accordingly, the user can easily grasp the status of stock options held by the user together with the grant values.

[0150]

(7) The stock acquisition right information storage unit is configured to be capable of storing the stock acquisition right information of different issuers for the predetermined user, and the grant value information storage unit is configured to be capable of storing the grant value information of different issuers for the predetermined user. Accordingly, even when the user holds a plurality of roles (such as manager or executive) within group companies, or when the user is a freelancer affiliated with a plurality of companies (such as venture companies), the user can conveniently grasp the status of stock options and grant values of a plurality of issuers (companies) using a single user account.

[0151]

(8) The information processing apparatus further includes a tax amount output unit (for example, the tax amount output unit 150) configured to be capable of outputting a tax amount corresponding to at least the stock acquisition right information and the grant value information. Since taxes must be considered for profits obtained from selling stock options or grant values, tax management is highly relevant. However, taxes applied to share sales or exercises of grant value rights vary depending on the applicable category (type) and associated rules, which determine the taxation system (tax rate, etc.). The tax rate may also vary depending on the fiscal year in which profits are recorded. For users who gain profits, understanding the amount of tax applied to those profits is particularly important. According to this configuration, users can easily grasp future income amounts with pre-calculated tax deductions, even if they are unfamiliar with tax calculations. This tax calculation can also take into account future parameter fluctuations.

[0152]

(9) The stock acquisition right information includes information relating to the number of shares acquirable and the acquisition share price for each user holding the stock acquisition rights, and information relating to an expected future selling stock price; the grant value information includes information relating to the number of grant values acquirable and the acquisition price for each user holding the grant values, and information relating to an expected future selling price; and the output control unit is configured to output an expenditure amount at the time of exercising rights and an estimated profit amount at the time of sale based on the stock acquisition right information acquired by the stock acquisition right information acquisition unit, or to output an estimated profit amount at the time of sale based on the grant value information acquired by the grant value information acquisition unit. Accordingly, a user holding stock acquisition rights or grant values can grasp the number of acquirable shares, the stock price, or the grant value, and can

also confirm the expenditure amount at the time of exercising rights and the estimated profit amount at the time of sale, for example, through graphical display.

[0153]

(10) The output control unit is configured to: output the stock acquisition right information or the grant value information to a company terminal (for example, the company terminal 4) managed by a company that grants the stock acquisition right or the grant value to users, in such a manner that at least a part of a screen is displayed in a first display color; and output the stock acquisition right information or the grant value information to a user terminal (for example, the user terminal 5) used by a user having the stock acquisition right or the grant value, in such a manner that at least a part of a screen is displayed in a second display color different from the first display color. Accordingly, since each of the company terminal 4 and the user terminal 5 employs a screen with its own distinctive display color, operations can be performed on each terminal without confusion during input and output operations.

[0154]

(11) The output control unit (for example, the output control unit 132) is configured to: output an indication that there is the stock acquisition right that will become exercisable in the future when the stock acquisition right information acquired by the stock acquisition right information acquisition unit includes the stock acquisition right information relating to the stock acquisition right whose exercisable period will arrive in the future; and output an indication that there is the grant value that will become exercisable in the future when the grant value information acquired by the grant value information acquisition unit includes the grant value information relating to the grant value whose exercisable period will arrive in the future. Accordingly, it becomes easier to grasp stock acquisition rights and grant values that will become exercisable in the future.

[0155]

(12) The output control unit (for example, the output control unit 132) is configured to output, together with an indication that there is the stock acquisition right or the grant value that is currently exercisable, information relating to the exercisable period. Accordingly, since the exercisable period is clearly indicated, it becomes possible to determine an appropriate timing for exercising the right.

[0156]

(13) The exercisable period output by the output control unit (for example, the output control unit 132) indicates that a period immediately before the exercisable period is a non-exercisable period. Accordingly, it becomes possible to confirm non-exercisable periods specific to stock options or non-exercisable periods set for grant values.

[0157]

(14) The information processing method to which the present invention is applied includes: an information storage step of storing, in a grant value information storage unit, grant value information including information relating to a grant value calculated based on a designated index and to a period during which the grant value can be exercised; an information acquisition step of acquiring the grant value information from the information storage step; and an output control step of outputting, to a predetermined user, an indication that there is the grant value information when the grant value information acquired in the information acquisition step includes a grant value that can be exercised by the predetermined user currently or in the future.

[0158]

(15) The program to which the present invention is applied causes a computer to execute: an information storage step of storing, in a grant value information storage unit, grant value information including information relating to a grant

value calculated based on a designated index and to a period during which the grant value can be exercised; an information acquisition step of acquiring the grant value information from the information storage step; and an output control step of outputting, to a predetermined user, an indication that there is the grant value information when the grant value information acquired in the information acquisition step includes a grant value that can be exercised by the predetermined user currently or in the future.

[0159]

The information processing apparatus to which the present invention is applied can take various embodiments including the following configuration. That is, (1) the information processing apparatus (for example, the information processing apparatus 3a illustrated in FIG. 8) to which the present invention is applied includes: a stock acquisition right information storage unit (for example, the stock acquisition right information DB 41) configured to store stock acquisition right information including information relating to an exercisable period; a grant value information storage unit (the grant value information DB 141) configured to store grant value information including information relating to a grant value calculated based on a designated index and to a period during which the grant value can be exercised; a stock acquisition right information acquisition unit (for example, the stock acquisition right information acquisition unit 31) configured to acquire the stock acquisition right information from the stock acquisition right information storage unit; a grant value information acquisition unit (the grant value information acquisition unit 131) configured to acquire the grant value information from the grant value information storage unit; and an output control unit (for example, the output control unit 132) configured to output, to a predetermined user, an indication that there is a currently exercisable stock acquisition right when the stock acquisition right information acquired by the stock acquisition right information

acquisition unit includes the stock acquisition right information relating to a stock acquisition right that is currently within an exercisable period by the predetermined user, and also configured to output, to the predetermined user, an indication that there is the grant value information when the grant value information acquired by the grant value information acquisition unit includes the grant value that can be exercised by the predetermined user currently or in the future. Accordingly, the user can easily grasp the status of stock options and grant values held by the user. It becomes possible to easily grasp the status of benefits granted in a form suitable for the user in order to enhance a sense of belonging to the company and to improve motivation. For example, stock options or ES as grant values can be regarded as medium- to long-term rewards and serve as motivators for users to improve company value or parameters in the short term. Even for users who plan to change jobs four to five years later, exercising the right at the time of resignation becomes a goal.

[0160]

(2) An information processing method to which the present invention is applied includes: an information storage step of storing, in a stock acquisition right information storage unit, stock acquisition right information including information relating to an exercisable period, or storing, in a grant value information storage unit, grant value information including information relating to a grant value calculated based on a designated index and to a period during which the grant value can be exercised; an information acquisition step of acquiring the stock acquisition right information or the grant value information from the information storage step; and an output control step of outputting, to a predetermined user, an indication that there is a currently exercisable stock acquisition right when the stock acquisition right information acquired in the information acquisition step includes the stock acquisition right information relating to a stock acquisition right that

is currently within an exercisable period by the predetermined user, and outputting, to the predetermined user, an indication that there is the grant value information when the grant value information acquired in the information acquisition step includes a grant value that can be exercised by the predetermined user currently or in the future.

[0161]

(3) A program to which the present invention is applied causes a computer to execute: an information storage step of storing, in a stock acquisition right information storage unit, stock acquisition right information including information relating to an exercisable period, or storing, in a grant value information storage unit, grant value information including information relating to a grant value calculated based on a designated index and to a period during which the grant value can be exercised; an information acquisition step of acquiring the stock acquisition right information or the grant value information from the information storage step; and an output control step of outputting, to a predetermined user, an indication that there is a currently exercisable stock acquisition right when the stock acquisition right information acquired in the information acquisition step includes the stock acquisition right information relating to a stock acquisition right that is currently within an exercisable period by the predetermined user, and outputting, to the predetermined user, an indication that there is the grant value information when the grant value information acquired in the information acquisition step includes a grant value that can be exercised by the predetermined user currently or in the future.

EXPLANATION OF REFERENCE NUMERALS

[0162]

1: information processing system

2: network

3: information processing apparatus

4: company terminal

4: user terminal

6: scanner

11: CPU

18: storage unit

31: stock acquisition right information acquisition unit

34: submission document generation unit

41: stock acquisition right information DB

131: grant value information acquisition unit

132: output control unit

133: user registration information acquisition unit

135: new information acquisition unit

141: grant value information DB

142: user registration information DB

150: tax amount output unit

170: grant value derivation method setting unit

181: document distribution unit

182: cost processing proposal unit

CLAIMS

[Claim 1]

An information processing apparatus, comprising:

a grant value information storage unit configured to store grant value information including information relating to a grant value calculated based on a designated index and to a period during which the grant value can be exercised;

a grant value information acquisition unit configured to acquire the grant value information from the grant value information storage unit; and

an output control unit configured to output, to a predetermined user, an indication that there is the grant value information when the grant value information acquired by the grant value information acquisition unit includes the grant value that can be exercised by the predetermined user currently or in the future.

[Claim 2]

The information processing apparatus according to claim 1, wherein the grant value information storage unit, using at least one index selected from among a plurality of candidate indices as the index, is configured to store the grant value information relating to the grant value designated for each of a plurality of users including the predetermined user.

[Claim 3]

The information processing apparatus according to claim 2, wherein the plurality of candidate indices include at least one of stock price, sales, operating profit, retained earnings, profit before income tax, net profit for the current period, corporate value, share value, return on equity, return on total assets, environmental initiative indicators, number of new customers, production volume, or

operational efficiency.

[Claim 4]

The information processing apparatus according to claim 1, further comprising a grant value derivation method setting unit configured to allow selection between a variable type, in which a monetary value of the grant value is determined based on the index that fluctuates, and a fixed type, in which a monetary value of the grant value is determined based on the index having a fixed value that does not fluctuate, as a method for setting a monetary value of the grant value.

[Claim 5]

The information processing apparatus according to claim 4, wherein the grant value derivation method setting unit is configured to be capable of setting the variable type or the fixed type for each user or for each group to which the user belongs.

[Claim 6]

The information processing apparatus according to any one of claims 1 to 5, further comprising:

a stock acquisition right information storage unit configured to store stock acquisition right information including information relating to an exercisable period; and

a stock acquisition right information acquisition unit configured to acquire the stock acquisition right information from the stock acquisition right information storage unit,

wherein the output control unit outputs, to the predetermined user, an indication that there is a currently exercisable stock acquisition right when the

stock acquisition right information acquired by the stock acquisition right information acquisition unit includes the stock acquisition right information relating to a stock acquisition right that is currently within an exercisable period by the predetermined user.

[Claim 7]

The information processing apparatus according to claim 6,

wherein the stock acquisition right information storage unit is configured to be capable of storing the stock acquisition right information of different issuers for the predetermined user, and

the grant value information storage unit is configured to be capable of storing the grant value information of different issuers for the predetermined user.

[Claim 8]

The information processing apparatus according to claim 6, further comprising a tax amount output unit configured to be capable of outputting a tax amount corresponding to at least the stock acquisition right information and the grant value information.

[Claim 9]

The information processing apparatus according to claim 6,

wherein the stock acquisition right information includes information relating to the number of shares acquirable and the acquisition share price for each user holding the stock acquisition rights, and information relating to an expected future selling stock price,

the grant value information includes information relating to the number of grant values acquirable and the acquisition price for each user holding the grant

values, and information relating to an expected future selling price, and

the output control unit is configured to output an expenditure amount at the time of exercising rights and an estimated profit amount at the time of sale based on the stock acquisition right information acquired by the stock acquisition right information acquisition unit, or to output an estimated profit amount at the time of sale based on the grant value information acquired by the grant value information acquisition unit.

[Claim 10]

The information processing apparatus according to claim 6,

wherein the output control unit is configured to:

output the stock acquisition right information or the grant value information to a company terminal managed by a company that grants the stock acquisition right or the grant value to users, in such a manner that at least a part of a screen is displayed in a first display color; and

output the stock acquisition right information or the grant value information to a user terminal used by a user having the stock acquisition right or the grant value, in such a manner that at least a part of a screen is displayed in a second display color different from the first display color.

[Claim 11]

The information processing apparatus according to claim 6,

wherein the output control unit is configured to:

output an indication that there is the stock acquisition right that will become exercisable in the future when the stock acquisition right information acquired by the stock acquisition right information acquisition unit includes the stock acquisition right information relating to the stock acquisition right whose

exercisable period will arrive in the future; and

output an indication that there is the grant value that will become exercisable in the future when the grant value information acquired by the grant value information acquisition unit includes the grant value information relating to the grant value whose exercisable period will arrive in the future.

[Claim 12]

The information processing apparatus according to claim 6, wherein the output control unit is configured to output, to the user together with an indication that there is the stock acquisition right or the grant value that is currently exercisable, information relating to the exercisable period.

[Claim 13]

The information processing apparatus according to claim 11, wherein the exercisable period output by the output control unit indicates that a period immediately before the exercisable period is a non-exercisable period.

[Claim 14]

An information processing method executed by an information processing system, the method comprising:

an information storage step of storing, in a grant value information storage unit, grant value information including information relating to a grant value calculated based on a designated index and to a period during which the grant value can be exercised;

an information acquisition step of acquiring the grant value information from the information storage step; and

an output control step of outputting, to a predetermined user, an indication

that there is the grant value information when the grant value information acquired in the information acquisition step includes a grant value that can be exercised by the predetermined user currently or in the future.

[Claim 15]

A program for causing a computer to execute:

an information storage step of storing, in a grant value information storage unit, grant value information including information relating to a grant value calculated based on a designated index and to a period during which the grant value can be exercised;

an information acquisition step of acquiring the grant value information from the information storage step; and

an output control step of outputting, to a predetermined user, an indication that there is the grant value information when the grant value information acquired in the information acquisition step includes a grant value that can be exercised by the predetermined user currently or in the future.