

FIRE SAFETY MANAGEMENT METHOD AND SYSTEM

BACKGROUND

1. FIELD

5 **[0001]** The technical idea of the present disclosure relates to a fire safety management method and system.

2. DESCRIPTION OF RELATED ART

10 **[0002]** The importance of fire safety management to prevent fires that cause enormous damage to life and property is increasing day by day. In particular, as the centralization of population and facilities accelerates in recent years, various types of buildings are also becoming denser. When a fire breaks out in such buildings, the fire may affect adjacent buildings and cause enormous damage. Therefore, firefighting
15 facilities need to be installed and operated in the buildings, and management of these firefighting facilities or fire inspection activities for preventing other fire hazards is essential.

20 **[0003]** Managers who have acquired fire safety manager qualification should be specified for each building, and these managers should perform fire inspections or firefighting facility management for the building. However, since most of these managers are ordinary people who have acquired only simple qualification, there are limitations in their expertise. As
25 a result, the fire inspection of the actual building and the

management of the firefighting facility have been performed by fire safety management specialized companies entrusted by these managers.

[0004] In the case of the prior art, managers (engineers, etc.)

5 of fire safety management specialized companies manually perform fire inspection and management of buildings, and manually record and manage inspection results, so the degree of computerization is low. As a result, the system for fire inspection and management is inaccurate and uncertain, causing
10 unnecessary waste of fire safety management personnel, and a person in charge may not easily identify details such as a legal inspection period or defects of the building, causing low management efficiency.

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SUMMARY

[0005] The present disclosure provides a method and system capable of maximizing management convenience of a fire safety management specialized company by computerizing information management such as firefighting facility statuses, inspection
20 schedules, and inspection results for buildings.

[0006] In an aspect of the present invention, a fire safety management method provided through a server includes: logging in as a result of receiving log-in information of a user from a terminal accessing the server; and outputting a site list
25 screen including a list of management target buildings

registered for a logged-in user through the terminal, in which the site list screen includes at least one inspection icon corresponding to at least one fire safety inspection set in a management target building included in the list of management target buildings, and the at least one inspection icon is displayed to have different shapes based on at least one of whether a scheduled inspection date for a corresponding fire safety inspection is specified, whether an inspection is completed, and whether an inspection is excluded.

10 **[0007]** The at least one inspection icon may be displayed to have different colors based on at least one of whether a scheduled inspection date for a corresponding fire safety inspection is specified, whether an inspection is completed, and whether an inspection is excluded.

15 **[0008]** The site list screen may include a report icon indicating a report registration status of the performed fire safety inspection among the at least one fire safety inspection set in the management target building, and the report icon may be displayed to have different colors based on whether a report for submission of a corresponding fire safety inspection and a report for internal storage are registered.

25 **[0009]** The fire safety management method may further include: providing a management target building registration interface through the terminal in response to a new registration request for a management target building; receiving building

registration information acquired through the management target building registration interface; and registering a management target building based on the received building registration information, in which the building registration information includes a building name, an address, a building purpose, a use approval date, contract-related information, and fire safety inspection schedule information of the management target building.

[0010] The fire safety management method may further include: receiving a selection input for one of at least one management target building included in the list of the management target buildings on the site list screen; and providing detailed information of the selected management target building through the terminal, in which the detailed information includes firefighting facility information and inspection performance status information of the management target building.

[0011] The fire safety management method may further include: outputting a visit schedule management screen including visit schedule information for the management target buildings of the user through the terminal in response to a visit schedule management request of the user, in which the visit schedule management screen may include icons corresponding to each of the management target buildings of the user.

[0012] The icons may include a first icon corresponding to the management target building for which a scheduled visit date is

specified, the first icon may be displayed in different colors according to a visit status of the user for the corresponding management target building, and the visit state may include un-visit, visit completion, and revisit.

5 **[0013]** The visit schedule management screen may be divided into a date area where the icon of the management target building for which the scheduled visit date is specified is displayed and an area where an icon of the management target building for which the scheduled visit date is not input is displayed.

10 **[0014]** The fire safety management method may further include: outputting a pop-up window for the second icon on the visit schedule management screen when a second icon among the icons is selected or focused; and acquiring at least one of a visit completion date input menu, a scheduled visit date change menu,
15 and visit completion date information through an attached report menu, changed scheduled visit date information, and a report which are included in the pop-up window.

[0015] In another aspect of the present invention, a fire safety management system includes: an operating server; and a
20 terminal that transmits login information input from a user to the operating server, in which the operating server outputs a site list screen including a management target building list registered for a user corresponding to the login information through the terminal, and the site list screen includes at least
25 one inspection icon corresponding to at least one fire safety

inspection set in a management target building included in the management target building list, and the at least one inspection icon is displayed to have different shapes based on at least one of whether a scheduled inspection date for a corresponding
5 fire safety inspection is specified, whether an inspection is completed, and whether an inspection is excluded.

BRIEF DESCRIPTION OF DRAWINGS

[0016] In order to more fully understand the drawings cited
10 herein, a brief description of each drawing is provided.

[0017] FIG. 1 is a conceptual diagram illustrating a configuration of a fire safety management system according to an embodiment of the present disclosure.

[0018] FIG. 2 is an example of a main screen provided through
15 the fire safety management system according to the exemplary embodiment of the present disclosure.

[0019] FIG. 3 is an exemplary diagram of a management target building registration interface provided through the fire safety management system according to the embodiment of the
20 present disclosure.

[0020] FIG. 4 is an exemplary diagram of a screen including a list of buildings to be managed stored in a database of the fire safety management system according to the embodiment of the present disclosure.

25 **[0021]** FIGS. 5 to 7 are exemplary diagrams of a screen

displaying information on the buildings to be managed stored in the database of the fire safety management system according to the embodiment of the present disclosure.

[0022] FIG. 8 is an example of a visit schedule management screen provided through the fire safety management system according to the embodiment of the present disclosure.

[0023] FIG. 9 is an example of an inspection schedule management screen provided through the fire safety management system according to an embodiment of the present disclosure.

[0024] FIG. 10 is an exemplary view of an interface for terminating/deleting the building to be managed provided through the fire safety management system according to an embodiment of the present disclosure.

DETAILED DESCRIPTION

[0025] Exemplary embodiments according to the technical idea of the present disclosure are provided to more completely explain the technical idea of the present disclosure to those skilled in the art, and the following embodiments are modified in various forms, and the scope of the technical spirit of the present disclosure is not limited to the following embodiments. Rather, these exemplary embodiments make the present disclosure thorough and complete, and are provided in order to completely transfer the technical idea of the present invention to those skilled in the art.

[0026] It is obvious that although terms such as "first", "second", and the like in the present disclosure are used in order to describe various members, regions, layers, portions, and/or components, these members, parts, regions, layers, portions and/or are not limited by these terms. These terms do not imply any particular order, top or bottom, or superiority or inferiority, and are used only to distinguish one member, region, portion, or component from another member, region, portion, or component. Accordingly, a first member, region, region, or component to be described in detail below may refer to a second member, region, portion, or component without departing from the teachings of the technical idea of the present disclosure. For example, the 'first' component may be named the 'second' component, and vice versa, without departing from the scope of the present disclosure.

[0027] Unless defined otherwise, all terms used herein, including technical terms and scientific terms, have the same meaning as commonly understood by those of ordinary skill in the art to which the concepts of the present disclosure belong. In addition, commonly used terms as defined in the dictionary should be interpreted as having a meaning consistent with what these terms mean in the context of the related technology, and are not to be interpreted in an overly formal sense unless explicitly defined herein.

[0028] In a case where certain embodiments can be otherwise

implemented, the order of specific processes may be performed different from the order in which the processes are described. For example, two processes described in succession may be performed substantially simultaneously, or may be performed in
5 an order opposite to the order described.

[0029] In the accompanying drawings, for example, modification of illustrated shapes may be expected depending on a manufacturing technology and/or a tolerance. Therefore, embodiments of the technical idea of the present invention is
10 not to be interpreted as being limited to specific shapes of regions illustrated in the present disclosure, but should include changes of shapes caused in, for example, a manufacturing process. The same reference numerals are used for the same components in the drawings, and duplicate
15 descriptions thereof will be omitted.

[0030] The term "and/or" as used herein includes each and every combination of one or more of the recited members.

[0031] Hereinafter, embodiments according to the technical idea of the present disclosure will be described in detail with
20 reference to the accompanying drawings.

[0032] FIG. 1 is a conceptual diagram illustrating a configuration of a fire safety management system according to an embodiment of the present disclosure.

[0033] In a fire safety management system according to an
25 embodiment of the present disclosure, a company, which inspects

or manages a firefighting facility in a building, such as a fire safety management specialized company, may provide various fire safety management services that may computerize and automatically manage data related to business operation, such as various information related to fire inspection of management target building and manpower management information of companies. A program (solution) for providing such fire safety management service is implemented in an operating server that is linked with a database, and a user (representative, member, inspection personnel, etc., of fire safety management specialized companies) use a terminal (PC, smartphone, laptop, tablet PC, etc.) to access (URL etc.) the operating server, thereby using the above-described fire safety management service. Various screens and interfaces illustrated in FIGS. 1 to 9 are provided by the operating server, and may be output through a display etc., of the terminal accessing the operating server. According to the embodiment, the above-described fire safety management service may be provided in various forms such as a computer program (application) installed in a terminal.

[0034] This fire safety management system 100 may include an operating server 110, a database 120, terminals 140 to 160, and the like. The components of the fire safety management system 100 may be communicatively connected to each other through the network 130 to transmit and receive various types of information or data.

[0035] The operating server 110 is a device that operates the fire safety management service, and may provide various screens, interfaces, and functions related to the fire safety management service through terminals 140 to 160 accessing the operating
5 server 110.

[0036] The database 120 may store and manage various data related to the provision of fire safety management services. For example, the database 120 may store various data such as data related to fire safety management, such as data on
10 buildings (management target buildings) managed by a user (fire safety management specialized company, etc.), fire inspection of management target buildings, a current status of fire fighting facilities, a management history, etc., of the management target building, data for management of inspection
15 personnel.

[0037] In FIG. 1, the operating server 110 and the database 120 are illustrated as being implemented in a separate form, but according to the embodiment, the database 120 may be implemented in the form included in the operating server 110.
20 The database 120 may be implemented as a storage device such as a database server, a data center, or a memory.

[0038] The terminals 140 to 160 may correspond to means for users to use the fire safety management service. For example, the terminals 140 to 160 may access the operating server 110
25 through the network 130 based on a user's input etc., receive

and output various information related to the provision of the fire safety management service from the operating server 110, and transmit the information obtained in relation to the use of the fire safety management service from the user to the operating server 110 (or database 120). To this end, the terminals 140 to 160 may include input means (keyboard, touch screen, camera, etc.), output means (display, speaker, etc.), communication means, and the like. These terminals 140 to 160 may include various fixed/mobile computing devices such as a desktop PC 140, a notebook PC 150, a smartphone 160, and a tablet PC.

[0039] Hereinafter, referring to FIGS. 2 to 10, functions of the fire safety management service provided through the fire safety management system according to the embodiment of the present disclosure will be described in detail with reference to screens/interfaces output to the terminals 140 to 160.

[0040] FIG. 2 is an example of a main screen provided through a fire safety management system according to an exemplary embodiment of the present disclosure.

[0041] Referring to FIG. 2, the terminal 140 may access the operating server 110 by the user input (URL address input, etc.), and log-in the fire safety management services by transmitting login information (ID, password, etc.). As the login is normally performed, the operating server 110 may provide various interfaces (screens, etc.) related to the provision of

the fire safety management services to the terminal 140. For example, after the login procedure is completed, the operating server 110 may output a main screen 10 of the fire safety management service through the terminal 140. It is assumed that
5 the "user" in the following description corresponds to a person (members of a fire safety management specialized company, etc.) who performs fire safety inspection and firefighting facility management for various buildings.

[0042] For example, the main screen 10 may include information
10 on functions provided through the fire safety management service and information on a visit schedule (or inspection schedule) for a management target building managed by a user, but is not limited thereto. The main functions of the fire safety management service according to the embodiment of the
15 present disclosure may include visit schedule management, inspection schedule management, management target building management (site list, site location, contract renewal schedule, new registration, cancellation/deletion, etc.), etc. The user may perform a selection input for a menu corresponding to a
20 function to be used among each function included in the main screen 10, and the terminal 140 may transmit a request corresponding to the selection input to the operating server 110. The operating server 110 may provide a screen/ an interface of corresponding function to the user's selection
25 input in response to the request.

[0043] According to an example of the main screen 10 illustrated in FIG. 2, the user may quickly access the main functions of the fire safety management service through the main screen 10, and may conveniently check the currently registered
5 visit schedule without additional input.

[0044] FIG. 3 is an exemplary diagram of a management target building registration interface provided through the fire safety management system according to the embodiment of the present disclosure.

10 **[0045]** Referring to FIG. 3, the operating server 110 may provide a management target building registration interface through the terminal 140 in response to a new registration request (selection of a new registration menu, etc.) of a management target building. For example, the management
15 target building registration interface may be provided in the form of a management target building registration screen 20 output through the display of the terminal 140, but is not limited thereto.

[0046] The management target building registration screen 20
20 may include a plurality of input items for acquiring various types of information related to the management target building to be registered. For example, the plurality of input items may include items corresponding to basic information of the management target building, such as a person in charge, a
25 building name, an address, a total floor area, the number of

5 floors/dongs, a purpose, a use approval date, a multi-use business, the number of households, building ledger file upload, and/or a contract status, items corresponding to information related to a fire safety inspection schedule of a management target building, such as an operation function inspection month, a comprehensive precision inspection month, inspection of a person concerned, and/or an inspection schedule application period, and items corresponding to contract-related information such as a contract date, a contract amount, a contract route, a contractor, a contract period, and monthly cost. According to the embodiment, the information related to the fire safety inspection schedule of the management target building may be automatically set according to the input of the use approval date of the management target building, but it may not necessarily be limited thereto and may be set directly by a user.

20 **[0047]** When building registration information corresponding to at least some of the plurality of input items is input by the user, the terminal 140 may transmit the input building registration information to the operating server 110. The operating server 110 may perform registration of a new management target building based on building registration information received from the terminal 140 and store and manage the building registration information in the database 120.

25 **[0048]** In the conventional case, most of the fire safety

management specialized companies writes down information of the management target building by hand to manage the information, or takes the form that it is stored and managed in their own PC, which caused problems such as inefficiency and security vulnerability. The fire safety management service according to the embodiment of the present disclosure provides a building registration interface through the terminal 140, allowing a user to conveniently register management target building information anytime, anywhere and safely manage the registered management target building information through the database 120 to improve security.

[0049] FIG. 4 is an exemplary diagram of a screen including a list of management target buildings stored in the database of the fire safety management system according to the embodiment of the present disclosure.

[0050] Referring to FIG. 4, the operating server 110 may output a screen (e.g., site list screen 30) including a list of management target buildings registered for the user (such as the method according to the embodiment of FIG. 3) through the terminal 140. For example, building registration information of each management target building acquired through the building registration interface, such as a building name, a person in charge, a contract date, a contract status (contract, progress, suspension, cancellation, etc.), a building purpose, a total floor area, a use approval date, a firefighting plan,

and a collection type may be provided to a site list screen 30. In addition, the list indicates inspection information such as an inspection month, whether or not inspection is performed, and an inspection result report registration status, information on a registration status of a firefighting plan of each management target building, thereby allowing a user to intuitively provide information such as a fire safety inspection schedule, a performance history, etc., of management target buildings.

[0051] Specifically, the inspection information may include schedule (monthly) information of the fire safety inspection (operation function inspection, comprehensive precision inspection, and/or manager inspection) set based on the building registration information, information on whether each of the set inspections is performed, and information on the report registration status of the performed inspections. In particular, information on whether each of the set inspections has been performed and information on the report/firefighting plan registration status are provided in visually different forms, such as colors, thereby allowing a user to intuitively check the corresponding information.

[0052] According to the embodiment of the present disclosure, according to the shape (e.g., color, etc.) of each of the inspection icons displayed on the site list screen 30 in response to the inspections set for each of the management

target buildings, whether or not the scheduled inspection date has been specified, whether the inspection completion has been completed, and whether or not the inspection is excluded may be divided. For example, displaying an inspection icon
5 corresponding to a specific inspection in a first color (e.g., white) may indicate that the inspection corresponding to the inspection icon is a state in which only the scheduled inspection month is specified. Displaying the inspection icon in a second color (for example, gray) may indicate that the
10 inspection corresponding to the inspection icon may indicate the state in which the scheduled inspection month and the scheduled inspection date are specified. Displaying the inspection icon in a third color (e.g., red, blue, or green) may indicate that the inspection corresponding to the
15 inspection icon has been completed. Displaying the inspection icon in a fourth color (for example, black) may indicate that the inspection corresponding to the inspection icon is excluded from the schedule.

[0053] Similarly, the report registration status information
20 of the performed inspection and the firefighting plan registration status information are also divided by color, thereby allowing a user to intuitively check the corresponding information. For example, displaying a report icon corresponding to a report of a specific inspection in a first
25 color (e.g., white) may indicate that a report corresponding

to the report icon is not registered (uploaded). Displaying the report icon in the second color (e.g., gray) may indicate that a report for submission to a government agency is registered. Displaying the report icon in the third color (e.g.,
5 red, blue, or green) may indicate that a report for submission and a report for internal storage are registered. According to an embodiment, when the selection input of the report icon having the second color or the third color is received from the terminal 140, the operating server 110 may respond to the
10 received selection input to transmit the report file stored in the database 120 to the terminal 140.

[0054] According to the embodiment, search condition selection items may be displayed on the site list screen 30, thereby allowing a user to select the search conditions of the
15 management target buildings. For example, search condition selection items may include a use approval month, an inspection type, a report/firefighting plan registration status, a person in charge, a keyword, and the like. A user may conveniently check a list including only desired management target buildings
20 by using the search condition items.

[0055] FIGS. 5 to 7 are exemplary diagrams of a screen displaying information on the management target buildings stored in the database of the fire safety management system according to the embodiment of the present disclosure.

25 **[0056]** When a selection input of any one of the management

target buildings included in the site list screen 30 of FIG. 4 is received from the terminal 140, the operating server 110 may provide detailed information of the selected management target building through the terminal 140. For example, the detailed information may include at least some of information, such as a person in charge, a building name, an address, a total floor area, the number of floors/dongs, a purpose, a use approval date, presence and absence of a multi-use business, the number of households, a building ledger file, and/or a contract status, and the like included in site information screen 40 of FIG.5, and information acquired through the management target building registration screen 20 of FIG. 3, map information based on a building image and a building address uploaded by the person in charge, etc.

[0057] In addition, the detailed information may include information on a fire safety manager, a firefighting facility image, and fire extinguishing equipment, security equipment, evacuation equipment, fire extinguishing water equipment, fire extinguishing activity equipment, other firefighting related equipment, a receiver (R-type, P-type, etc.), a pump, etc., of the management target building, which are included in a firefighting facility information screen 50 of FIG. 6. In addition, the detailed information may include information on a fire inspection schedule, performance history, and/or plan, firefighting plan, fire drill, etc., as included in an

inspection performance current status screen 60 of FIG. 7. A user may check the inspection schedule, the inspection history, whether the inspection report (checklists, etc.) of the management target building is registered, through the inspection performance current status screen 60.

[0058] In addition, the detailed information may include information such as a collection status according to a fire safety management contract signed with an owner of the management target building, etc.

10 **[0059]** According to the embodiment, a user may modify some items in the detailed information through the terminal 140 or upload related files (firefighting facility image, firefighting plan, inspection report, etc.) to the operating server 110 or the database 120.

15 **[0060]** That is, the user may conveniently check and modify the information of the registered management target building through the terminal 140 regardless of time and location, or upload images, files, etc., so the user may perform work more efficiently.

20 **[0061]** FIG. 8 is an example of a visit schedule management screen provided through the fire safety management system according to the embodiment of the present disclosure. FIG. 9 is an example of an inspection schedule management screen provided through the fire safety management system according to an embodiment of the present disclosure.

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[0062] Referring to FIGS. 8 and 9, the operating server 110 may provide a visit schedule management screen 70 through the terminal 140 in response to a user's visit schedule management request (selection of a visit schedule menu, etc.) and provide
5 an inspection schedule management screen 80 in response to the user's selection of the inspection schedule menu.

[0063] First, the visit schedule management screen 70 may provide information on a visit schedule (scheduled visit date, visit completion date, etc.) of a user (person in charge) for
10 management target buildings. The visit schedule management screen 70 may display information on the visit schedule for each month, but is not limited thereto. In addition, the visit schedule management screen 70 may classify and provide information on visit schedules by a person in charge/all persons
15 in charge, information on visit schedules by a reason for visit (operation function inspection, comprehensive precision inspection, inspection of a person concerned, emergency dispatch, visit request, fire station inspection, etc.), and information on visit schedules for each building.

[0064] On the visit schedule management screen 70, an icon of the management target building may be displayed in a date area corresponding to a scheduled visit date specified for the management target building. For example, the icon may include a management target building name, but is not limited thereto.

[0065] Meanwhile, the icons are displayed in different colors
25

according to a visit status of a person in charge, so the person in charge may intuitively check the visit status of the management target building. For example, when a visit to a management target building for which a visit schedule is registered has not been made, a corresponding icon may be displayed in a first color (e.g., red). When the visit to the management target building for which the visit schedule is registered is completed, the corresponding icon may be displayed in a second color (e.g., blue), and when a revisit to the management target building is made, the corresponding icon may be displayed in a third color (e.g., green).

[0066] According to the embodiment, the visit schedule management screen 70 may separately provide an area where icons of management target buildings (or management target buildings that do not require visits) for which there is no plan to visit in the corresponding month are displayed and an area where icons of management target buildings for which no scheduled visit date is input for the corresponding month are displayed from an area where the icon of the management target building for which the scheduled visit date is input is displayed. A user may check that there is the management target building for which the scheduled visit date is not input, and input a scheduled visit date for the corresponding building.

[0067] In addition, according to the embodiment of the present disclosure, a user may modify the scheduled visit date, input

the visit completion date, register the report (checklist, etc.), etc., without moving the screen by using an icon displayed on the visit schedule management screen 70.

[0068] Specifically, when an icon for a specific management target building among the icons displayed on the visit schedule management screen 70 is selected (clicked, touched, etc.) or focused (when a cursor is located on an icon), the operating server 110 may display a pop-up window 72 for a corresponding icon on the visit schedule management screen 70. For example, a building name, a name of a person in charge, and the reason for visit may be displayed on the pop-up window 72, and in particular, menus such as input of a visit completion date, input of scheduled date change, and attachment of a checklist (report) may be provided. When a user completes the visit to the management target building, the user may input a visit completion date through a visit completion date input menu of the pop-up window 72. When it is necessary to change the scheduled visit date for the management target building, the user may change the scheduled visit date through the scheduled date change input menu of the pop-up window 72. In addition, when a user completes the visit and inspection of the management target building and the preparation of the report (checklist, etc.), the user may attach the report through the checklist attachment menu. The terminal 140 may transmit the report file selected through the report attachment menu to the operating

server 110 or the database 120, and when the transmission is completed, may display a sub icon indicating completion of report attachment on one side of the corresponding icon.

[0069] Meanwhile, when the user designates or changes a
5 scheduled visit date for a specific management target building through the terminal 140, the operating server 110 may receive information on the specified or changed scheduled visit date from the terminal 140 and store the information in the database 120 or the like, thereby registering the corresponding
10 information within the fire safety management service. According to an embodiment, when the information on the scheduled visit date is registered, the operating server 110 may transmit the information on the registered scheduled visit date to the terminal of the manager (building owner, fire safety
15 manager, etc.) of the specific management target building. According to an embodiment, when a report (checklist, etc.) file is received from the terminal 140 after the inspection of the management target building is completed, the operating server 110 may transmit the received report file to the terminal of
20 the manager of the management target building. Accordingly, the manager may conveniently check and acquire a scheduled inspection date or an inspection result report for the management target building, and the fire safety management specialized company may also perform work more efficiently and
25 conveniently because it may not directly guide the inspection

schedule and send reports to the manager.

[0070] Referring to FIG. 9, the inspection schedule management screen 80 may have characteristics similar to those of the visit schedule management screen 70 described above with reference to FIG. 8. Accordingly, describing the difference from the visit schedule management screen 70, the inspection schedule management screen 80 may provide information on visit schedules of management target buildings corresponding to operation function inspection, comprehensive precision inspection, and inspection of a person concerned among the reasons for the visit described above. In addition, although not illustrated, on the inspection schedule management screen 80, only the scheduled inspection month is specified, a list of management target buildings (list of unspecified scheduled inspection dates) to which the scheduled inspection date is not input, and a list of management target buildings (list of unspecified scheduled inspection months) for which a scheduled inspection month is not specified may be displayed in a divided area. A user may check the management target building included in the list of the unspecified scheduled inspection dates and the list of the unspecified scheduled inspection months, and specify the scheduled inspection month and/or the scheduled inspection date, so it is possible to effectively prevent an omission of inspection of a building from occurring by providing the list of the unspecified scheduled inspection dates and the list of

the unspecified scheduled inspection months.

[0071] In particular, similar to the pop-up window 72 of the visit schedule management screen 70, when an icon for a specific management target building among the icons displayed on the inspection schedule management screen 80 is selected or focused,
5 the operating server 10 may display a pop-up window 82 for a corresponding icon on the inspection schedule management screen 80. For example, information such as a building name, a person in charge, an inspection type, a scheduled inspection date, and
10 an inspection date (inspection completion date) is provided in the pop-up window 82, so a user may easily check inspection-related information on the management target building through the pop-up window 82.

[0072] FIG. 10 is an exemplary diagram of a management target building cancellation/deletion interface provided through the
15 fire safety management system according to the embodiment of the present disclosure.

[0073] Referring to FIG. 10, when a contract related to fire safety management of a management target building is terminated
20 (cancellation, etc.), a user may change contract-related information of the management target building registered in the database 120 through the terminal 140. However, the contract-related information may be changed by only some users (representatives of fire safety management specialized
25 companies, contract managers, etc.) for which authority is set.

[0074] For example, it can be seen that, unlike the site list screen 30 illustrated in FIG. 4, a site list screen 90 illustrated in FIG. 10 includes icons corresponding to modification/cancellation/deletion of contract-related information in the "management" item. That is, when a user with authority to change contract-related information is logged in, the operating server 110 may display the icon corresponding to the modification/cancellation/deletion of the contract-related information when providing the site list screen 90 through the terminal 140 through the corresponding terminal 140.

[0075] The operating server 110 may receive selection input information on any one of the displayed icons from the terminal 140 and perform a processing operation based on the received results. For example, when the "modification" icon is selected, the operating server 110 may provide an interface (screen, etc.) for modifying contract-related information of the corresponding management target building through the terminal 140. When the "cancellation" icon is selected, the operating server 110 may change the contract status of the management target building to a cancellation status and update the database 120. When the "deletion" icon is selected, the operating server 110 may delete the information of the corresponding management target building stored in the database 120 and the contract-related information. According to the embodiment,

when the "deletion" icon is selected, the operating server 110 does not provide information on a corresponding management target building to other users for whom authority is not set, and may process the information to provide the information only
5 to users for which authority is set through a separate deleted item management screen 92. Thereafter, as the "complete deletion" icon is selected by the user for whom the authority is set, the operating server 110 may delete the information of the corresponding management target building and
10 contract-related information stored in the database 120.

[0076] According to embodiments of the present disclosure, by the fire safety management system 100 built to provide the fire safety management services, fire safety management specialized companies computerize and manage information such as
15 firefighting facility current statuses, inspection schedules, and inspection results for buildings to be managed, so the corresponding information may be more efficiently and safely managed.

[0077] In addition, a user of a fire safety management system
20 may use fire safety management services regardless of time and location using a terminal, so convenience and work efficiency may be maximized.

[0078] Effects which can be achieved by a fire safety management method and system according the technical idea of
25 the present invention are not limited to the above-mentioned

effects. That is, other objects that are not described may be obviously understood by those skilled in the art to which the present invention pertains from the following description.

[0079] Since the description of the above embodiments is only
5 examples with reference to the drawings for a more thorough understanding of the present disclosure, it should not be construed as limiting the technical idea of the present disclosure.

[0080] In addition, it will be apparent to those skilled in
10 the art that various changes and modifications are possible within a range that does not deviate from the basic principles of the present disclosure.

What Is Claimed Is:

1. A fire safety management method provided through a server, comprising:

logging in as a result of receiving log-in information
5 of a user from a terminal accessing the server; and

outputting a site list screen including a list of management target buildings registered for a logged-in user through the terminal,

wherein the site list screen includes at least one
10 inspection icon corresponding to at least one fire safety inspection set in a management target building included in the list of management target buildings, and

the at least one inspection icon is displayed to have different shapes based on at least one of whether a scheduled
15 inspection date for a corresponding fire safety inspection is specified, whether an inspection is completed, and whether an inspection is excluded.

2. The fire safety management method of claim 1,
20 wherein the at least one inspection icon is displayed to have different colors based on at least one of whether a scheduled inspection date for a corresponding fire safety inspection is specified, whether an inspection is completed, and whether an inspection is excluded.

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3. The fire safety management method of claim 1,
wherein the site list screen includes a report icon indicating
a report registration status of the performed fire safety
inspection among the at least one fire safety inspection set
5 in the management target building, and

the report icon is displayed to have different colors
based on whether a report for submission of a corresponding fire
safety inspection and a report for internal storage are
registered.

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4. The fire safety management method of claim 1,
further comprising:

providing a management target building registration
interface through the terminal in response to a new registration
15 request for a management target building;

receiving building registration information acquired
through the management target building registration interface;
and

registering a management target building based on the
20 received building registration information,

wherein the building registration information includes
a building name, an address, a building purpose, a use approval
date, contract-related information, and fire safety inspection
schedule information of the management target building.

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5. The fire safety management method of claim 1, further comprising:

receiving a selection input for one of at least one management target building included in the list of the management target buildings on the site list screen; and

providing detailed information of the selected management target building through the terminal,

wherein the detailed information includes firefighting facility information and inspection performance status information of the management target building.

6. The fire safety management method of claim 1, further comprising:

outputting a visit schedule management screen including visit schedule information for the management target buildings of the user through the terminal in response to a visit schedule management request of the user,

wherein the visit schedule management screen includes icons corresponding to each of the management target buildings of the user.

7. The fire safety management method of claim 6, wherein the icons include a first icon corresponding to the management target building for which a scheduled visit date is specified,

the first icon is displayed in different colors according to a visit status of the user for the corresponding management target building, and

the visit state includes un-visit, visit completion, and
5 revisit.

8. The fire safety management method of claim 6, wherein the visit schedule management screen is divided into a date area where the icon of the management target building
10 for which the scheduled visit date is specified is displayed and an area where an icon of the management target building for which the scheduled visit date is not input is displayed.

9. The fire safety management method of claim 6,
15 further comprising:

outputting a pop-up window for the second icon on the visit schedule management screen when a second icon among the icons is selected or focused; and

acquiring at least one of a visit completion date input
20 menu, a scheduled visit date change menu, and visit completion date information through an attached report menu, changed scheduled visit date information, and a report which are included in the pop-up window.

25 10. A fire safety management system, comprising:

an operating server; and

a terminal that transmits login information input from
a user to the operating server,

wherein the operating server outputs a site list screen
5 including a management target building list registered for a
user corresponding to the login information through the
terminal,

the site list screen includes at least one inspection icon
corresponding to at least one fire safety inspection set in a
10 management target building included in the management target
building list, and

the at least one inspection icon is displayed to have
different shapes based on at least one of whether a scheduled
inspection date for a corresponding fire safety inspection is
15 specified, whether an inspection is completed, and whether an
inspection is excluded.