DESCRIPTION

Title of the Invention

SYSTEM AND METHOD FOR PROVIDING DAILY REAL-TIME ~~USER-~~ PERSONALIZED ~~DAILY~~ COSMETIC SOLUTION

Technical Field

[1]

The present invention relates to a system and a method to provide daily real time ~~user-~~customized ~~daily~~ cosmetic solution~~ providing system and method, and particularly, to user-customized daily cosmetic solution providing system and method that recommend a user-customized daily cosmetic~~ by combining a user's skin condition with factors that affect the skin.

Background Art

[2]

Skin conditions are different from person to person. Even when people have the same type of gene or people have the same type of skin, the skin conditions thereof may be different from each other depending on what food he/she takes, what kind of behavior he/she does, and what environment he/she is exposed to.

[3]

Also, the skin conditions are constantly changing.

However, existing cosmetics are produced in large quantities using the same raw material and method and provided to everyone. Therefore, it is necessary to find a cosmetic suitable for each individual, and in a case where the cosmetic suitable for each individual cannot be fined, a case where a cosmetic that does not match the skin type of each individual is used is also frequent.

[4]

Although methods of providing a customized cosmetic customized to each individual's skin condition has been proposed, no technique to suggest a cosmetic suitable for the skin by reflecting even the skin condition that changes in real-time has not been presented in actual circumstances.

[5]

Korean Patent No. 874825 (Customized Cosmetic Information Providing Method and System Using Skin Gene Information) diagnoses the current skin condition on the basis of skin gene test results and provides a cosmetic suitable for the diagnosis. The skin gene determines basic properties. However, this is susceptible to various environmental and behavioral factors, and there is still a lack of care for the skin condition that changes in real-time.

[6]

In addition, Korean Patent No. 1853096 (Customized Cosmetic Providing Method According to Skin Type Analysis) discloses a method of determining 16 types of skin on the basis of a questionnaire and skin measurement data and providing a customized cosmetic accordingly. In this case, there is a limit to providing a personally customized cosmetic in real-time because the skin condition is limited to 16 types and changes in the environment or behavior cannot be reflected once the skin type is determined.

[7]

In addition, even in the case of Korean Patent No. 708319 (Customized Cosmetic Providing Method and System for Each Customer), there is a limit to providing a customized cosmetic in real-time.

[8]

The assumption that a skin condition is fixed simply by a gene or that a skin condition once measured will not change can fall into a technical error. Therefore, studies on the effects of lifestyle and environmental factors on the skin have been continuously performed.

Detailed Description of the Invention

Technical Challenge

[9]

The present invention has been conceived from such a technical background, an object thereof is to provide user-customized daily cosmetic solution providing system and method that recommend a suitable customized cosmetic to a user in real-time by checking a user's skin condition every day.

Means for Solving the Problems

[10]

The present invention for achieving the above object includes the following configuration.

[11]

That is, a user-customized daily cosmetic solution providing system according to an embodiment of the present invention includes a skin condition check unit that checks a user's skin condition; a skin condition check unit that compares the skin condition checked in the check unit with ~~an~~ a predetermined ideal skin condition in order to determine a substance necessary for the user's skin; and a cosmetic recommendation unit that recommends a daily customized cosmetic containing a substance necessary for the user's skin as a result of the comparison in the skin condition comparison unit.

[12]

Meanwhile, a user-customized daily cosmetic solution providing method provides includes a step of checking a user’s skin condition by a skin condition check unit of a user-customized daily cosmetic solution providing system; a step of comparing the skin condition checked in the skin condition check unit in order to determine a substance necessary for the user's skin with ~~an~~ a predetermined ideal skin condition by the skin condition comparison unit; and a step of recommending a daily customized cosmetic containing the substance necessary for the user's skin as a result of the comparison in the skin condition comparison unit by a cosmetic recommendation unit.

Effects of the Invention

[13]

According to the present invention, the effect of providing the user-customized daily cosmetic solution providing system and method that recommend the suitable customized cosmetic to the user in real-time by checking the user's skin condition every day is derived.

[14]

In addition, by repeating a feedback process of receiving and reflecting feedback on the use effect of the recommended cosmetic from the user, recommending a

cosmetic containing an alternative substance, and evaluating the use effect again, it is possible to recommend a cosmetic without trouble while ultimately providing a customized effect to an individual.

[15]

In addition, it is possible to implement a new cosmetic map by utilizing previously stored information depending on the feedback information. In other words, by continuously accumulating information on a newly implemented cosmetic map, there is an effect of providing an evolving user-customized daily cosmetic solution providing system.

Brief Description of the Drawings

[16]

FIG. 1 is a block diagram showing the configuration of a user-customized daily cosmetic solution providing system according to an embodiment of the present invention.

[17]

FIG. 2 is an exemplary view for explaining information collected for checking skin condition according to the embodiment of the present invention.

[18]

FIG. 3 is an exemplary view for explaining a basic cosmetic map according to the embodiment of the present

invention.

[19]

FIGS. 4A to 4E are exemplary views for explaining functional main ingredients.

[20]

FIGS. 5 and 6 are exemplary views for explaining a process of performing scoring depending on skin condition measurement values according to the embodiment of the present invention.

[21]

FIG. 7 is an exemplary view showing a~~n~~ predetermined ideal skin condition according to the embodiment of the present invention as a table.

[22]

FIGS. 8 to 10 are exemplary views for explaining a daily customized cosmetic recommendation course according to the embodiment of the present invention.

[23]

FIG. 11 is an exemplary view for explaining a multi-layer cosmetic map according to the embodiment of the present invention.

[24]

FIG. 12 is an exemplary view showing a schematic algorithm of a user-customized daily cosmetic solution providing method according to an embodiment.

[25]

FIG. 13 is a flowchart for explaining the user-customized daily cosmetic solution providing method according to the embodiment of the present invention.

Best Modes for Carrying Out the Invention

[26]

It should be noted that the technical terms used in the present invention are only used to describe specific embodiments and are not intended to limit the present invention. In addition, the technical terms used in the present invention should be interpreted as the meaning generally understood by those of ordinary skill in the technical field to which the present invention belongs, unless otherwise defined in the present invention, and should not be interpreted as an excessively comprehensive meaning or an excessively reduced meaning.

[27]

[28]

Hereinafter, preferred embodiments according to the present invention will be described in detail with reference to the accompanying drawings.

[29]

FIG. 1 is a block diagram showing the configuration of a user-customized daily cosmetic solution providing

system according to an embodiment of the present invention.

[30]

As shown in FIG. 1, the user-customized daily cosmetic solution providing system 10 according to the embodiment includes a skin condition check unit 100, a skin condition comparison unit 110, a cosmetic recommendation unit 120, a feedback unit 130, and a storage unit 140.

[31]

The skin condition check unit 100 checks a user's skin condition. The user may input his/her skin condition check result to the skin condition check unit 100 every day.

[32]

In the embodiment, the skin condition check unit 100 further collects basic personal information and behavior and environmental information through a questionnaire. In other words, it is possible to collect daily environmental data every day.

[33]

In one aspect, the skin condition check unit 100 further receives environmental information that may affect the skin condition from the user, and the cosmetic recommendation unit 120 further reflects the environmental information that may affect the skin condition input to

the skin condition check unit 100 to recommend daily customized cosmetics.

[34]

In this case, the environmental information that may affect the skin condition includes at least one of basic personal information such as the user's age, sex, and area, specific skin condition requiring improvements such as trouble, acne, and atopy, skin measurement information such as skin oil and moisture, skin color, and erythema, and personal behavior information. However, the present invention is not limited thereto and is interpreted to include various information that may affect the skin condition.

[35]

FIG. 2 is an exemplary view for explaining information collected for checking skin condition according to the embodiment of the present invention.

[36]

As shown in FIG. 2, the skin condition check unit 100 checks basic personal information such as the user's name, age, sex, and area information, specific skin condition requiring improvements such as trouble, acne, and atopy, skin measurement information such as skin oil and moisture, skin color, and erythema, and personal behavior information to check the overall condition of the

skin.

[37]

That is, the skin condition check unit 100 may simply collect environmental information for each user other than in the skin condition measurement information and check the degree to which behavioral factors and environmental factors affect the skin in addition to the current skin condition. In other words, it is possible to recommend a cosmetic for improvement to the optimal skin condition by determining various factors.

[38]

[39]

FIG. 3 is an exemplary view for explaining a basic cosmetic map according to the embodiment of the present invention, and FIGS. 4A to 4E are exemplary views for explaining functional main ingredients.

[40]

As shown in FIG. 3, as an example, the criteria for classifying the skin condition may be 17 and cosmetics types may be 119.

[41]

In this case, for example, cosmetics for improving whitening (skin tone, pigmentation, spots, freckles) as shown in FIG. 4A contain vinegar, lactobacillus/whey ferment, sophora japonica fruit extract, portulaca

oleracea extract, dipotassium glycyrrhizate, bifida ferment filtrate, niacin amide, schisandrachinensis fruit extract, arbutin, and garcinia cambogia fruit extract.

[42]

Moisturizing (surface moisturizing or inner moisturizing) cosmetics as shown in FIG. 4b contain natural betain, hibiscus esculentus fruit extract, trehalose, ocimum umbilicus (basil) seed extract, glycerine, hyaluronic acid), butylene glycol, beta glucan, squalane, olive oil, hibiscus esculentus fruit extract, jojoba oil, rosehip oil, ocimumbasilicum (basil) seed extract, ceramide, soluble proteoglycan, uridine, and the like.

[43]

Also, cosmetics related to wrinkles (face wrinkles, eye wrinkles, nasolabial wrinkles, and neck wrinkles) as shown in FIG. 4c contains aquilariaagallocha stem extract, adenosine, sophora japonica fruit extract, portulaca oleracea extract, dipotassium glycyrrhizate, lactobacillus/whey ferltment, bifida ferment, bifida ferment, uridine, salvia plebeia extract, cassia italica leaf extract, lycopersiconesculentum fruit extract, acetyl hexapeptide-1, and the like. Cosmetics related to elasticity (facial skin elasticity, skin density, elasticity under the eyes) as shown in FIG. 4d contain

anemarrhenaasphodeloides root extract, uridine, rosehip oil, betaglucan, collagen, camellia sinensis leaf extract, rosehip oil, castaneacrenata shell extract, bacillus ferment, and the like.

[44]

As shown in FIG. 4e, acne cosmetics contain eupatorium lindleyanum extract, sophora japonica fruit extract, portulaca oleracea extract, dipotassium glycyrrhizate, and the like, and atopic cosmetics contains panax ginseng extract chenopodium quinoa seed extract eucalyptus globulus leaf extract, sophora japonica fruit extract, portulaca oleracea extract, dipotassium glycyrrhizate, ceramide, artemisia annua extract, and the like.

[45]

Primary irritation skin cosmetics contain phaseolus radiatus seed extract, sophora japonica fruit extract, portulaca oleracea extract, dipotassium glycyrrhizate, and the like, pore cosmetics contains camellia sinensis leaf extract, vaccinium macrocarpon (cranberry) fruit extract, lactobacillus/whey ferment, bifida it contains ferment filtrate, lavandula angustifolia (lavender) flower extract, castaneacrenata (chestnut) shell, and the like, and keratin care cosmetics contain saururuschinensis extract, chitosan, vinegar, lactobacillus/whey ferment, bifida

ferment filtrate, and the like. However, the present invention is not limited thereto.

[46]

The skin condition comparison unit 110 compares the skin condition checked by the skin condition check unit 100 with the predetermined ideal skin condition in order to determine substances necessary for the user's skin.

[47]

In the embodiment, the skin condition comparison unit 110 may sort the information on the input and received information into direct skin condition information and factors affecting the current and future conditions of the skin depending on the type of each kind of information, and correspondingly give scores and weights thereto, respectively.

[48]

FIGS. 5 and 6 are exemplary views for explaining a process of performing scoring depending on skin condition measurement values according to the embodiment of the present invention.

[49]

As can be seen from FIG. 5, the skin condition comparison unit 110 performs scoring basic information such as age, sex, and race, skin condition information such as acne and atopy, and skin measurement information

such as skin tone, pigmentation, surface moisturizing, and inner moisturizing depending on the condition checked by the skin condition check unit 100 and depending on optionally determined criteria.

[50]

Also, the skin condition comparison unit 110 determines factors that may affect the skin condition as shown in FIG. 6 for a more accurate comparison of the skin condition. By further reflecting this to score the skin condition, it is possible to calculate a score capable of more accurately reflecting the skin condition.

[51]

FIG. 7 is an exemplary view showing the predetermined ideal skin condition according to the embodiment of the present invention as table.

[52]

FIG. 7 shows the table so that certain weights can be reflected to give in consideration of what importance the information obtained by scoring the skin condition will affect each function with, what the current skin condition is, and how the skin will be affected in the future.

[53]

That is, the skin condition comparison unit 110 may score the information input from a user or measured by a

skin meter on the basis of FIGS. 5 to 7.

[54]

In one aspect, the skin condition comparison unit 110 determines a daily skin index on the basis of the skin condition checked by the skin condition check unit 100, compares the daily skin index with an predetermined ideal skin index, and calculates a cosmetic care score.

[55]

The cosmetic care score can be calculated as follows.

[56]

Cosmetic care score = (Daily skin index/Predetermined Ideal skin index)x100

[57]

Here, the daily skin index can be determined as follows.

[58]

Daily skin index = Individual skin data score +Σ(Effect factor score x Weight)

[59]

The skin condition comparison unit 110 applies a weight to the information collected by the skin condition check unit 100 for each factor and converts the information into the daily skin index for the day.

[60]

Then, a difference is determined by comparing the

daily skin index with a ~~preset~~ predetermined ideal skin index.

[61]

The cosmetic recommendation unit 120 recommends a cosmetic on the basis of the cosmetic care score calculated by the skin condition comparison unit 110.

The cosmetic recommendation unit 120 derives the type and degree of skincare so that the skin condition comparison unit 110 can compensate for the difference between the daily skin index and the predetermined ideal skin index. Also, a cosmetic is recommended depending on the type and degree of skincare derived.

[62]

Accordingly, the cosmetic recommendation unit 120 may recommend a daily customized cosmetic containing substances necessary for the user's skin as a result of the comparison from the skin condition comparison unit 110.

[63]

[64]

FIGS. 8 to 10 are exemplary views for explaining a daily customized cosmetic recommendation course according to the embodiment of the present invention.

[65]

In the embodiment, FIG. 8 shows a case where the skin tone of a 35-year-old woman is scored. In this case, the cosmetic care score is calculated as follows.

[66]

Cosmetic care score = (Daily skin index/Predetermined Ideal skin index) x 100

[67]

= (1.14/1.00) x 100

[68]

= 14

[69]

Also, FIG. 9 shows a case where the inner moisturizing of a 52-year-old woman is scored.

[70]

In this case, the cosmetic care score is calculated as follows.

[71]

Cosmetic care score = (Daily skin index/Predetermined Ideal skin index) x 100

[72]

= (1.28/1.00) x 100

[73]

= 28

[74]

Then, when the calculated cosmetic care score is applied to the basic cosmetic map, as shown in FIG. 10, A3 cosmetic is selected and recommended for the 35-year-old woman in FIG. 8 and an E4 cosmetic for the 52-year-old

woman in FIG. 9.

[75]

[76]

The feedback unit 130 receives the use effect information of the recommended daily customized cosmetic from the user. The feedback unit 130 may periodically receive feedback information on the effect of using a cosmetic from the user every day, every week, or every month.

[77]

Also, the cosmetic recommendation unit 120 further reflects the use effect information of the cosmetic input through the feedback unit 130 to recommend a daily customized cosmetic.

[78]

The cosmetic recommendation unit 120 may determine that the prescribed substances are not suitable for the skin when there is no effect or the trouble persists even in a case where the recommended cosmetic is used in accordance with the information input to the feedback unit 130. Then, cosmetics including alternative substances having the same efficacy and effect are recommended. By repeating the feedback process of recommending the cosmetic including the alternative substances and evaluating the effect of use again, it is possible to

recommend a cosmetic without trouble while ultimately providing customized effects to individuals.

[79]

In this case, all information such as feedback information on the first recommended cosmetics, a history of recommending the cosmetics including the alternative substances, and reviews of using the cosmetics including the alternative substances are stored in the storage unit 140. Then, a new cosmetic map may be implemented by utilizing the information stored in the storage unit 140. As the information on the newly implemented cosmetic map is continuously accumulated, an evolving user-customized daily cosmetic solution providing system can be implemented.

[80]

FIG. 11 is an exemplary view for explaining a multi-layer cosmetic map according to the embodiment of the present invention.

[81]

In the embodiment, the type of skincare may be initially started with a basic cosmetic map of 119 prescriptions for 17 skincares in FIG. 3. However, it is possible to store, accumulate, and utilize information on a candidate group of substances that can provide the same efficacy and effect to each user's skincare.

[82]

Also, in a case where the use effect of a recommended cosmetic is insignificant or does not suit the individual user, it is possible to continuously use new additional cosmetic maps on the basis of the stored candidate group information.

As the new additional cosmetic maps are continuously increased in this way, a daily customized cosmetic that is more suitable and effective than before can be recommended when new customers are introduced.

[83]

Through this process, the multi-layer cosmetics map may be created as shown in FIG. 11. In order to create the multi-layer cosmetic map of FIG. 11, raw medicinal substances used in cosmetics are sorted into a warm property, a cold property, a hot property, and a cool property depending on the properties thereof, and applied to cosmetics in order to create a multi-layer cosmetic map depending on the efficacy and effect.

[84]

In this case, in the medicinal substances, botanical herbs having a warm property include puerariae radix, puerariaeflos, castaneae semen, laccasinicaexsiccata, ligusticisinensis radix et rhizoma, visciherba et loranthiramulus, laminariaestripites, farfaraeflos,

sophorae fructus, sophoraeflos, chryanthemiflos, chryanthemiflos, chryanthemiflos, chryanthemiflos, chryanthemiflos, chryanthemiflos, chryanthemiflos, euonymi lignum suberalatum, platycodi radix, raphani semen, phragmitisrhizoma, and the like.

[85]

In addition, botanical herbs having a cold property include euphorbiae kansui radix, osterici radix et rhizoma, rehmanniae radix siccus, cassiae semen, sophorae radix, trichosanthis semen, trichosanthis fructus, melonispedicellus, lycii fructus, allituberosi semen, rosae laevigate, phaseoli radiati semen, and the like.

[86]

Botanical herbs having a hot property include terminaliae fructus, glycyrrhizae radix et rhizoma, zingiberisrhizomasiccus, cinnamomiramulus, meliae cortex, pogostemonherba, cibotiirhizoma, oryzaeglutinosae radix, oryzaeglutinosae radix, oryzae saccharum granorum, angelicaefcensus, angelicaefcens, radix, aucklandiae radix, araliaepubescens radix, aucklandiae radix, and the like.

[87]

Also, botanical herbs having a cool property include curcumaelongae radix, oryzae semen, spatholobi caulis, alpiniaeofficinarirhizoma, picrasmae lignum, oryzae fructus germinatus, fagopyri semen, fagopyri folium,

lumbricus, codonopsispilosulae radix, pericae folium, persicae semen, oryzaeherba, cordyceps, chaenomelis, and the like. However, the present invention is not limited thereto.

[88]

[89]

FIG. 12 is an exemplary view showing a schematic algorithm of a user-customized daily cosmetic solution providing method according to an embodiment.

[90]

Schematically, the user-customized daily cosmetic solution providing method according to the embodiment obtains a questionnaire (direct input) or skin condition information (instrumental measurement) measured by the skin meter (data input). In this case, the basic personal information and the behavior information obtained by the questionnaire, and the skin condition information and environmental information measured every day are analyzed. Then, the daily skin index is calculated on the basis of the obtained information (data processing) (S1000).

[91]

Meanwhile, the ~~preset~~ predetermined ideal skin index is determined (S1100). Also, the cosmetic care score can be calculated on the basis of the daily skin index and the predetermined ideal skin index (S1200), and a customized

cosmetic may be selected every day on the basis of the cosmetic care score and the basic cosmetic map (S1300).

[92]

[93]

FIG. 13 is a flowchart for explaining the user-customized daily cosmetic solution providing method according to the embodiment of the present invention.

[94]

First, the skin condition check unit of the user-customized daily cosmetic solution providing system checks the user's skin condition (S200).

[95]

Then, the environmental information that may affect the skin condition is further input from the user (S210).

[96]

In this case, the environmental information that may affect the skin condition includes at least one of the basic personal information such as the user's age, sex, and area, specific skin condition requiring improvements such as trouble, acne, and atopy, the skin measurement information such as skin oil and moisture, skin color, and erythema, and the personal behavior information. However, the present invention is not limited thereto.

[97]

Then, the skin condition comparison unit compares

the skin condition checked in the skin condition check unit with the predetermined ideal skin condition in order to determine substances necessary for the user's skin.

[98]

Specifically, the skin condition comparison unit determines the daily skin index for each item on the basis of the skin condition checked in the skin condition check unit (S220), compares the daily skin index with the predetermined ideal skin index (S230), and calculates the cosmetic care score (S240).

[99]

In the embodiment, the cosmetic care score may be calculated as follows.

[100]

Cosmetic care score = (Daily skin index/Predetermined Ideal skin index) x 100

[101]

Here, the daily skin index can be determined as follows.

[102]

Daily skin index = Individual skin data score +Σ(Effect factor score*Weight)

[103]

The skin condition comparison unit applies a weight to the information collected by the skin condition check

unit for each factor, converts the information into the daily skin index for the day, and determines the difference by comparing the daily skin index with the ~~preset~~ predetermined ideal skin index

[104]

The cosmetic recommendation unit recommends the daily customized cosmetic containing substances necessary for the user's skin on the basis of the cosmetic care score calculated by the skin condition comparison unit (S250).

[105]

In this case, in the recommending step, it is apparent to further reflect the environmental information that may affect the input skin condition to recommend the daily customized cosmetic.

[106]

Thereafter, the feedback unit receives the use effect information of the recommended daily customized cosmetics from the user (S260).

[107]

In the recommending step, the daily customized cosmetic is recommended by further reflecting the use effect information of the cosmetics input to the feedback unit.

[108]

Specifically, the cosmetic recommendation unit may determine that the prescribed substances are not suitable for the skin when there is no effect or the trouble persists even in a case where the recommended cosmetic is used in accordance with the information input to the feedback unit (S270). Then, a cosmetic including other alternative substances having the same efficacy and effect is recommended (S280). By repeating the feedback process of recommending the cosmetic including the alternative substances and evaluating the effect of use again, it is possible to recommend a cosmetic without trouble while ultimately providing customized effects to individuals.

[109]

In this case, all information such as the feedback information on the first recommended cosmetic, a history of recommending the cosmetic including the alternative substances, and reviews of using the cosmetic including the alternative substances are stored in the storage unit. Then, a new cosmetic map, that is, an additional cosmetic map, may be implemented by utilizing the information stored in the storage unit (S285). As the information on the newly implemented cosmetic map is continuously accumulated, an evolving user-customized daily cosmetic solution providing method can be implemented.

[110]

[111]

The above-described method may be implemented as an application or implemented in the form of program commands that may be performed through various computer components and may be recorded in a computer-readable recording medium. The computer-readable recording medium may include program commands, data files, data structures, and the like alone or in combination.

[112]

The program commands recorded in the computer-readable recording medium may be specially designed and configured for the present invention and may be known to those skilled in the art and usable in the computer software field.

[113]

Examples of the computer-readable recording medium include magnetic media such as hard disks, floppy disks, and magnetic tapes, optical recording media such as CD-ROMs and DVDs, magneto-optical media such as floptical disks, and hardware device specially configured to store and perform program commands such as ROM, RAM, flash memory, and the like.

[114]

Examples of the program commands include not only machine language codes such as those produced by a

compiler but also high-level language codes that can be executed by a computer using an interpreter or the like. The hardware devices may be configured to operate as one or more software modules to perform the processing according to the present invention, and vice versa.

[115]

Although the above has been described with reference to embodiments, it can be understood that those skilled in the art can variously modify and changes the present invention without departing from the spirit and scope of the present invention described in the following claims.

[116]

Explanation of Reference Signs

[117]

10: USER-CUSTOMIZED DAILY COSMETIC SOLUTION PROVIDING SYSTEM

[118]

100: Skin condition check unit

110: Skin condition comparison unit

[119]

120: cosmetic recommendation unit

130: Feedback unit

[120]

140: Storage unit

Claims

[Claim 1]

A daily real-time ~~user-~~customized ~~daily~~ cosmetic solution providing system comprising:

a skin condition check unit that checks a user's skin condition;

a skin condition comparison unit that compares the skin condition checked in the skin condition check unit with a~~n~~ predetermined ideal skin condition in order to determine a substance necessary for the user's skin; ~~and~~

a cosmetic recommendation unit that recommends a ~~daily~~ customized cosmetic containing the substance necessary for the user's skin as a result of the comparison in the skin condition comparison unit~~.~~; and

a feedback unit that receives use effect information of the recommended customized cosmetic from the user,

wherein the cosmetic recommendation unit recommends a customized cosmetic containing an alternative substance by further reflecting the use effect information of the cosmetic input to the skin condition feedback unit.

~~[Claim 2]~~

~~The user-customized daily cosmetic solution providing system according to claim 1, further comprising:~~

~~a feedback unit that receives use effect information~~

~~of the recommended daily customized cosmetic from the user,~~

~~wherein the cosmetic recommendation unit recommends a daily customized cosmetic by further reflecting the use effect information of the cosmetic input to the skin condition feedback unit.~~

[Claim ~~3~~2]

The daily real-time ~~user-~~customized ~~daily~~ cosmetic solution providing system according to claim 1,

wherein the skin condition comparison unit determines a daily skin index on the basis of the skin condition checked in the skin condition check unit and calculates a cosmetic care score by comparing the daily skin index with a~~n~~ predetermined ideal skin index, and

wherein the cosmetic recommendation unit recommends a cosmetic on the basis of the cosmetic care score calculated in the comparison unit.

[Claim ~~4~~3]

The daily real-time ~~user-~~customized ~~daily~~ cosmetic solution providing system according to claim 1,

wherein the skin condition check unit further receives environmental information that may affect the skin condition from the user, and

wherein the cosmetic recommendation unit recommends a

~~daily~~ customized cosmetic by further reflecting the environmental information that may affect the skin condition input to the skin condition check unit.

[Claim ~~5~~4]

The daily real-time ~~user-~~customized ~~daily~~ cosmetic solution providing system according to claim ~~4~~3,

wherein the environmental information that may affect the skin condition includes at least one of basic personal information such as the user's age, sex, and area, specific skin condition requiring an improvement such as trouble, acne, and atopy, skin measurement information such as skin oil and moisture, skin color, and erythema, and personal behavior information.

[Claim ~~6~~5]

A daily real-time ~~user-~~customized ~~daily~~ cosmetic solution providing method comprising:

~~a step of~~ checking a user’s skin condition ~~by~~ with a skin condition check unit ~~of a user-customized daily cosmetic solution providing system~~;

~~a step of~~ comparing the skin condition checked in the skin condition check unit in order to determine a substance necessary for the user's skin with a~~n~~ predetermined ideal skin condition ~~by~~ with ~~the~~ a skin condition comparison unit;

~~and~~

~~a step of~~ recommending a ~~daily~~ customized cosmetic containing the substance necessary for the user's skin as a result of the comparison in the skin condition comparison unit by ~~a~~ the cosmetic recommendation unit~~.~~; and

inputting use effect information of the recommended customized cosmetic from the user to a feedback unit,

wherein the cosmetic recommendation unit recommending a customized cosmetic containing an alternative substance by further reflecting the use effect information of the cosmetic input to the skin condition feedback unit.

~~[Claim 7]~~

~~The user-customized daily cosmetic solution providing method according to claim 6, further comprising:~~

~~a step of inputting use effect information of the recommended daily customized cosmetic from the user by a feedback unit,~~

~~wherein in the recommending step, the daily customized cosmetic is recommended by further reflecting the use effect information of the cosmetic input to the feedback unit.~~

[Claim ~~8~~6]

The daily real-time ~~user-~~customized ~~daily~~ cosmetic solution providing method according to claim ~~6~~5,

wherein in the comparing step, a daily skin index is determined on the basis of the skin condition checked in the skin condition check unit, and a cosmetic care score is calculated by comparing the daily skin index with a~~n~~ predetermined ideal skin index, and

wherein in the recommending step, a cosmetic is recommended on the basis of the cosmetic care score calculated in the~~ comparison unit~~comparing step.

[Claim ~~9~~7]

The daily real-time ~~user-~~customized ~~daily~~ cosmetic solution providing method according to claim ~~6~~5,

wherein in the checking step, environmental information that may affect the skin condition is further input from the user, and

wherein in the recommending step, a daily customized cosmetic is recommended by further reflecting the environmental information that may affect the skin condition input in the checking step.

[Claim ~~10~~8]

The daily real-time ~~user-~~customized ~~daily~~ cosmetic solution providing method according to claim ~~9~~7,

wherein the environmental information that may affect the skin condition includes at least one of basic personal

information such as the user's age, sex, and area, specific skin condition requiring an improvement such as trouble, acne, and atopy, skin measurement information such as skin oil and moisture, skin color, and erythema, and personal behavior information.