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Smart terminal accessory-based membership-only service platform and method thereof

Abstract

Provided is a smart terminal accessory-based membership-only service platform and a method thereof. The smart terminal accessory-based membership-only service platform according to an embodiment of the present inventive concept includes: a management server for authenticating NFC information requested from a user terminal that identifies an NFC tag from a smart terminal accessory embedded with the NFC tag by means of NFC tagging, and registering the user terminal as a user of the smart terminal accessory; and a service server for registering and interconnecting the user terminal as a member in response to a request from the management server, and providing a membership-only service corresponding to the smart terminal accessory and requested from the user terminal.

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Background/Summary

BACKGROUND

Technical Field

(1) The present inventive concept relates to a smart terminal accessory-based membership-only service platform and a method thereof, and particularly, to a smart terminal accessory-based membership-only service platform and a method thereof, which can interconnect various membership-only services through authentication of an NFC tag embedded in a smart terminal accessory.

Background of the Related Art

(2) Recently, use of NFC tag is increasing as it is attached to a corresponding product and provides various information to a user. By tagging an NFC tag to a smart terminal such as a smartphone or the like, information stored the NFC tag may be transmitted to the smart terminal.

(3) As a service using the NFC tag, a smart terminal tagging the NFC tag communicates with a corresponding server using NFC information stored in the NFC tag and receives related information from the server. For example, as a service using the NFC tag, a smart terminal receives information on a corresponding product registered in a corresponding server or downloads contents provided by the server.

(4) However, as conventional services using the NFC tag are not used for a special purpose after interconnecting related contents, its use is limited to one-time use. As the NFC tag is discarded thereafter, it may cause environmental pollution.

(5) Therefore, a platform capable of continuously interconnecting various services according to NFC tagging is required.

SUMMARY

(6) Therefore, the present inventive concept has been made in view of the above problems, and it is an object of the present inventive concept to provide a smart terminal accessory-based membership-only service platform and a method thereof, which can interconnect various membership-only services through authentication of an NFC using a smart terminal accessory.

(7) To accomplish the above object, according to one aspect of the present inventive concept, there is provided a smartphone accessory-based membership-only service platform comprising: a management server for authenticating NFC information requested from a user terminal that identifies an NFC tag from a smart terminal accessory embedded with the NFC tag by means of NFC tagging, and registering the user terminal as a user of the smart terminal accessory; and a service server for registering and interconnecting the user terminal as a member in response to a request from the management server, and providing a membership-only service corresponding to the smart terminal accessory and requested from the user terminal.

(8) In an embodiment, when a request for authenticating the identified NFC information is received from the user terminal, the NFC authentication unit may authenticate the identified NFC information according to identification information of the NFC tag.

(9) In an embodiment, the management server may determine the user terminal requesting authentication of the NFC information as a real owner of the smart terminal accessory in correspondence to the NFC information and register the user terminal as a user, and provide an application related to the membership-only service to the user terminal to install.

(10) In an embodiment, the management server may request registration of membership and setting of special contracts by transmitting the registered user information and a membership-only service related to the NFC information to the service server.

(11) In an embodiment, the service server may register the user terminal as a member corresponding to the NFC information in response to a request from the management server, match the user terminal and a corresponding special contract, and provide a membership-only service matched as a special contract in response to a request of the user terminal.

(12) According to another aspect of the present inventive concept, there is provided a smartphone

accessory-based membership-only service method comprising the steps of: identifying an NFC tag from a smart terminal accessory embedded with the NFC tag by means of NFC tagging, by a user terminal; authenticating NFC information requested from the user terminal, by a management server; registering the user terminal as a user of the smart terminal accessory, by the management server; registering the user terminal as a member in response to a request from the management server, by the service server; and providing a membership-only service corresponding to the smart terminal accessory and requested from the user terminal, by the service server.

(13) In an embodiment, the authenticating step may include the steps of: receiving a request for authenticating the identified NFC information from the user terminal; and authenticating the identified NFC information according to identification information of the NFC tag.

(14) In an embodiment, the step of registering as a user may include the steps of: receiving a request for authenticating the NFC from the user terminal; determining the user terminal requesting authentication of the NFC information as a real owner of the smart terminal accessory in correspondence to the NFC information and registering the user terminal as a user; and providing an application related to the membership-only service to the user terminal to install.

(15) In an embodiment, the step of registering as a member may include the step of requesting registration of membership and setting of special contracts by transmitting the registered user information and a membership-only service related to the NFC information to the service server, by the management server.

(16) In an embodiment, the registering step may include the steps of: registering the user terminal as a member corresponding to the NFC information in response to a request from the management server; and matching the user terminal and a corresponding special contract. Here, the providing step may include the steps of: receiving a request for a membership-only service matched to a corresponding special contract from the user terminal; and providing the matched membership-only service to the user terminal in response to the request of the user terminal.

(17) As the smart terminal accessory-based membership-only service platform and a method thereof according to an embodiment of the present inventive concept is connected to a service server by performing NFC authentication using a smart terminal accessary in a smart terminal, and thus may interconnect various membership-only services provided by the service server, continuity of service can be improved.

(18) In addition, as the smart terminal accessory-based membership-only service platform and a method thereof according to an embodiment of the present inventive concept provides NFC authentication, membership registration, and applications simply by applying a smart terminal accessory to a smart terminal of a user, and thus may be easily used without the need of special handling or setting, convenience of use and scalability can be improved.

(19) In addition, as the smart terminal accessory-based membership-only service platform and a method thereof according to an embodiment of the present inventive concept applies a smart terminal accessory to a smart terminal of a user so that the accessory may be seen each time it is used or may be easily identified by other people, and thus may provide a sense of belonging as a special member or a sense of satisfaction with a special service, loyalty of membership can be improved.

(20) In addition, as the smart terminal accessory-based membership-only service platform and a method thereof according to an embodiment of the present inventive concept may continuously use a smart terminal accessory according to its usage and continuously provide associated services at the same time, and thus may reduce the amount of waste of NFC tags, it may contribute to improving the environment.

Description

BRIEF DESCRIPTION OF THE DRAWINGS

(1) FIG. **1** is a view showing the configuration of a smart terminal accessory-based membership-only service platform according to an embodiment of the present inventive concept.

(2) FIG. **2** is another exemplary view showing an accessory applied to a smart terminal accessory-based membership-only service platform according to an embodiment of the present inventive concept.

(3) FIG. **3** is a block diagram showing a management server of a smart terminal accessory-based membership-only service platform according to an embodiment of the present inventive concept.

(4) FIG. **4** is a flowchart illustrating a smart terminal accessory-based membership-only service method according to an embodiment of the present inventive concept.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

(5) Hereinafter, embodiments of the present inventive concept will be described in detail with reference to the attached drawings so that those skilled in the art may easily implement the present inventive concept. The present inventive concept may be implemented in various different forms and is not limited to the embodiments described herein. Parts not related to the description are omitted from the drawings to clearly describe the present inventive concept, and the same reference numerals are given to identical or similar components throughout the specification.

(6) Hereinafter, a smart terminal accessory-based membership-only service platform according to an embodiment of the present inventive concept will be described in more detail with reference to the drawings. FIG. **1** is a view showing the configuration of a smart terminal accessory-based membership-only service platform according to an embodiment of the present inventive concept.

(7) Referring to FIG. **1**, a smart terminal accessory-based membership-only service platform **10** according to an embodiment of the present inventive concept includes a smart terminal accessory **100**, a user terminal **200**, a management server **300**, and a service server **400**.

(8) The smart terminal accessory-based membership-only service platform **10** is a system for providing specially contracted various membership-only services in association with the service server **400** by means of NFC tagging using a smart terminal accessory, which is a system that provides both NFC authentication and service provision in association with the management server **300** and the service server **400**. Here, the membership-only service may be a special service agreed upon in advance as a special contract in association with the smart terminal accessory **100**.

(9) As the smart terminal accessory-based membership-only service platform **10** is provided with the management server **300**, in addition to the service server **400**, to manage the user terminal **200** through management of NFC information and special contracts, the smart terminal accessory-based membership-only service platform **10** is in charge of promotion such as attracting customers of the service server **400** and the like and may guarantee reliability of legitimate users. Here, the operating company of the management server **300** is in charge of manufacturing and selling the smart terminal accessory **100**.

(10) The service server **400** may provide a previously agreed special contract service to a corresponding user terminal **200** for authenticated legitimate users who have purchased the smart terminal accessory **100**. Therefore, the operating company of the service server **400** may reduce the burden of promotion for attracting customers and avoid risks in manufacturing and selling the smart terminal accessory **100**.

(11) The smart terminal accessory **100** is sold separately without regard to the user terminal **200**, and may be sold through promotions for membership-only services provided by the service server **400**.

(12) The smart terminal accessory **100** may be embedded with an NFC tag **110**. Here, the NFC tag **110** may include an NFC antenna and an NFC chip. At this point, the smart terminal accessory **100** may be a device additionally used for a smart terminal. For example, the smart terminal accessory **100** may be a smart terminal case. Here, the smart terminal case may be provided to cover the

lateral and rear sides of the smart terminal, excluding the display. The smart terminal accessory **100** may be mounted on the user terminal **200** to be continuously used for protection or aesthetics purposes.

(13) Here, the NFC chip may store NFC information. At this point, the NFC information may include the address of the management server **300** and identification information of its own. That is, the NFC information may include IP address information of the management server **300** that the user terminal **200** may automatically access at the same time as NFC tagging. In addition, the NFC information may include identification information issued to identify the NFC tag **110**.

(14) The user terminal **200** may be a terminal of a user who purchases the smart terminal accessory **100**. Here, the user terminal **200** is a smart terminal and may be a portable electronic device such as a smartphone, a laptop computer, a smart pad, or the like. The user terminal **200** is not particularly limited in the form as long as it has an NFC tagging function and a communication function.

(15) When the smart terminal accessory **100** is mounted, the user terminal **200** may automatically perform NFC tagging to identify the NFC tag. At this point, the user terminal **200** may be in a state in which the NFC function is activated. That is, the user terminal **200** may receive and identify NFC information stored in the NFC tag **110** through NFC tagging.

(16) The user terminal **200** may request authentication of the NFC tag by transmitting the identified NFC information to the management server **300**. Here, the user terminal **200** may access the IP address of the management server **300** included in the NFC information. At this point, the user terminal **200** may transmit its own identification information to the management server **300**, together with the NFC information. For example, the user terminal **200** may transmit the phone number of its smart terminal to the management server **300** as identification information.

(17) The user terminal **200** may receive an application from the management server **300** and install the application. Here, the application may be an application related to a membership-only service corresponding to the NFC information. That is, the user terminal **200** may be provided with services of the service server **400** through the installed application.

(18) The user terminal **200** may request a membership-only service from the service server **400**. That is, the user terminal **200** may request a registered special contract service through the management server **300**.

(19) The management server **300** performs NFC authentication requested from the user terminal **200**. At this point, the management server **300** may authenticate the NFC information transmitted from the user terminal **200**. In addition, the management server **300** may register the user terminal **200** as a user of the smart terminal accessory **100**. Detailed description of the management server **300** will be described below with reference to FIG. **3**.

(20) The service server **400** may register the user terminal **200** as a member in response to a request from the management server **300**. That is, the service server **400** may register the user terminal **200** as a member corresponding to the authenticated NFC information in response to a request from the management server **300**. At this point, the service server **400** may register the identification information of the user terminal **200** as membership information.

(21) The service server **400** may match a special contract requested from the management server **300** with the user terminal **200**. Here, the special contract may be a previously agreed special service to be provided by the service server **400** in association with the NFC information. For example, the special contract may include additional services provided through specially progressed events or promotions, in addition to the services provided by signing up as a general member. That is, the service server **400** may match to provide a special contract previously agreed with the management server **300** to the user terminal **200** of corresponding membership. At this point, the service server **400** may interact with the user terminal **200** according to registration of membership of the user terminal **200**.

(22) The service server **400** may provide a membership-only service corresponding to the smart terminal accessory **100** in response to a request for the membership-only service of the user

terminal **200**. That is, the service server **400** may provide a previously agreed special contract service to the user terminal **200**.
(23) Meanwhile, the service server **400** may provide follow-up services or associated services related to the special contract service to the user terminal **200**, regardless of the request of the user terminal **200**. For example, when a new promotion is generated for specific members, the service server **400** may provide the new promotion to corresponding user terminals **200**.
(24) As described above, as the smart terminal accessory-based membership-only service platform **10** according to an embodiment of the present inventive concept is connected to the service server **400** by performing NFC authentication using the smart terminal accessary **100** in the smart terminal, and thus may interconnect various membership-only services provided by the service server **400**, continuity of service can be improved.
(25) FIG. **2** is another exemplary view showing an accessory applied to a smart terminal accessory-based membership-only service platform according to an embodiment of the present inventive concept.
(26) Referring to FIG. **2**, the smart terminal accessory **100**′ may be a wireless earphone case. The wireless earphone case may include a charger of a wireless earphone **11**. In this case, the smart terminal accessory **100**′ may be tagged to the user terminal **200** at the time of initial purchase or when registration is desired.
(27) The smart terminal accessory **100**′ may be continuously used to charge the wireless earphone **11**.
(28) As described above, as the smart terminal accessory-based membership-only service platform **10** according to an embodiment of the present inventive concept applies the smart terminal accessory **100** to the smart terminal of a user so that the accessory may be seen each time it is used or may be easily identified by other people, and thus may provide a sense of belonging as a special member or a sense of satisfaction with a special service, loyalty of membership can be improved.
(29) In addition, as the smart terminal accessory-based membership-only service platform **10** according to an embodiment of the present inventive concept may continuously use the smart terminal accessory **100** according to its usage and continuously provide associated services at the same time, and thus may reduce the amount of waste of NFC tags, it may contribute to improving the environment.
(30) FIG. **3** is a block diagram showing a management server of a smart terminal accessory-based membership-only service platform according to an embodiment of the present inventive concept.
(31) Referring to FIG. **3**, the management server **300** may include a communication unit **310**, a database **320**, and a control unit **330**.
(32) The communication unit **310** may communicate with the user terminal **200** and the service server **400** through a wireless communication network. For example, the communication unit **310** may communicate with the user terminal **200** and the service server **400** through a 4G or 5G communication network.
(33) The database **320** may store information related to the operation of the management server **300**. The database **320** may include NFC information **322** and user information **324**.
(34) The NFC information **322** may be identification information of the NFC tag **110** issued by the management server **300**. That is, the NFC information **322** may be information referenced when NFC authentication is requested from the user terminal **200**.
(35) The user information **324** may be information on a user registered as a real owner through NFC authentication. The user information **324** may be identification information of the user terminal **200** NFC-authenticated by the management server **300**.
(36) The control unit **330** is communicatively connected to the communication unit **310** and the database **320** and may control the overall operation of the management server **300**. This control unit **330** may include an NFC authentication unit **332** and a service interconnecting unit **334**.
(37) When a request for authenticating the identified NFC information is received from the user

terminal **200**, the NFC authentication unit **332** may authenticate the identified NFC information according to identification information of the NFC tag in the database **320**. That is, the NFC authentication unit **332** may perform authentication by comparing the NFC information transmitted from the user terminal **200** with the NFC information **322** in the database **320**.
(38) The service interconnecting unit **334** may determine the user terminal **200** requesting authentication of the NFC tag as the real owner of the smart terminal accessory **100** in correspondence to the NFC information and register the user terminal **200** as a user. That is, the service interconnecting unit **334** may register the user terminal **200** authenticated by the NFC authentication unit **332** as a legitimate user of the smart terminal accessory **100**.
(39) The service interconnecting unit **334** may provide an application related to the membership-only service to the authenticated and registered user terminal **200**. That is, the service interconnecting unit **334** may provide an application related to the membership-only service to the user terminal **200** to install.
(40) The service interconnecting unit **334** may request, from the service server **400**, membership registration and a special contract for the user terminal **200** registered as a user. Here, the special contract may be a previously agreed special service to be provided by the service server **400** in association with NFC information. At this point, the service interconnecting unit **334** may transmit the registered user information and a membership-only service related to the NFC information to the service server **400**. That is, the service interconnecting unit **334** may transmit identification information of the user terminal **200** to the service server **400** to be registered as a member of the service server **400**. In addition, the service interconnecting unit **334** may request the service server **400** to provide a previously agreed special contract to the corresponding user terminal **200**.
(41) As described above, as the smart terminal accessory-based membership-only service platform **10** according to an embodiment of the present inventive concept provides NFC authentication, membership registration, and applications simply by applying the smart terminal accessory **100** to the smart terminal of a user, and thus may be easily used without the need of special handling or setting, convenience of use and scalability can be improved.
(42) Hereinafter, the smart terminal accessory-based membership-only service method of the present inventive concept will be described with reference to FIG. **4**.
(43) FIG. **4** is a flowchart illustrating a smart terminal accessory-based membership-only service method according to an embodiment of the present inventive concept.
(44) Referring to FIG. **4**, a smart terminal accessory-based membership-only service method **20** includes the steps of authenticating by tagging an NFC (S**21** to S**24**), registering a user (S**2** to S**27**), registering membership (S**28** and S**29**), and providing a membership-only service (S**30** and S**31**).
(45) Describing in more detail, as shown in FIG. **4**, first, the smart terminal accessory **100** NFC-tags the user terminal **200** (step S**21**). Here, the smart terminal accessory **100** may be embedded with an NFC tag **110**. At this point, the user terminal **200** may be equipped with the smart terminal accessory **100** or placed near the smart terminal accessory **100**.
(46) Next, the user terminal **200** identifies the NFC tag (step S**22**). At this point, the user terminal **200** may be in a state in which the NFC function is activated. That is, the user terminal **200** may receive and identify NFC information stored in the NFC tag **110**. Here, the NFC information may be NFC identification information.
(47) Next, the user terminal **200** requests NFC authentication from the management server **300** (step S**23**). Here, the user terminal **200** may access the IP address of the management server **300** included in the NFC information. At this point, the user terminal **200** may transmit its own identification information to the management server **300**, together with the identified NFC information. For example, the user terminal **200** may transmit the phone number of its smart terminal to the management server **300** as identification information.
(48) Next, the management server **300** authenticates the NFC information requested from the user terminal **200** (step S**24**). At this point, the management server **300** may authenticate according to

previously stored identification information of the NFC tag. That is, the management server **300** may perform authentication by comparing the NFC information transmitted from the user terminal **200** with the NFC information **322** in the database **320**.

(49) Next, the management server **300** registers the user terminal **200** as a user of the smart terminal accessory **100** (step S**25**). At this point, the management server **300** may determine the user terminal **200** that has requested NFC authentication as the real owner of the smart terminal accessory **100** in correspondence to the NFC information and register the user terminal **200** as a user. That is, the management server **300** may register the NFC-authenticated user terminal **200** as a legitimate user of the smart terminal accessory **100**.

(50) Next, the management server **300** provides an application related to the membership-only service to the user terminal **200** to install (step S**26**). Here, the membership-only service may be a membership-only service associated with the authenticated NFC information. That is, the management server **300** may provide an application related to the membership-only service to the user terminal **200** to install.

(51) Next, the user terminal **200** may receive and install the application provided from the management server **300** (step S**27**). Here, the application may be an application related to a membership-only service corresponding to the NFC information. That is, the user terminal **200** may be provided with services of the service server **400** through the installed application.

(52) The management server **300** may request, from the service server **400**, membership registration and a special contract for the user terminal **200** registered as a user (step S**28**). At this point, the management server **300** may transmit the registered user information and a membership-only service related to the NFC information to the service server **400**. That is, the management server **300** may transmit identification information of the user terminal **200** to the service server **400** to be registered as a member of the service server **400**. In addition, the management server **300** may request the service server **400** to provide a previously agreed special contract to the corresponding user terminal **200**.

(53) The service server **400** registers the user terminal **200** as a member in response to a request from the management server **300** (step S**29**). That is, the service server **400** may register the user terminal **200** as a member corresponding to the authenticated NFC information in response to a request from the management server **300**. Here, the service server **400** may register the identification information of the user terminal **200** as membership information.

(54) At this point, the service server **400** may match a special contract requested from the management server **300** with the user terminal **200**. Here, the special contract may be a previously agreed special service to be provided by the service server **400** in association with the NFC information. For example, the special contract may include additional services provided through specially progressed events or promotions, in addition to the services provided by signing up as a general member. That is, the service server **400** may match to provide a special contract previously agreed with the management server **300** to the user terminal **200** of corresponding membership. At this point, the service server **400** may interact with the user terminal **200** according to registration of membership of the user terminal **200**.

(55) Next, the user terminal **200** requests a membership-only service from the service server **400** (step S**30**). At this point, the user terminal **200** may request a registered special contract service through the management server **300**. That is, the user terminal **200** may request a membership-only service matched as a special contract from the management server **300**.

(56) Next, the service server **400** provides a membership-only service matched in correspondence to the smart terminal accessory **100** in response to a request for the membership-only service of the user terminal **200** (step S**31**). That is, the service server **400** may provide a previously agreed special contract service to the user terminal **200**.

(57) Meanwhile, the service server **400** may provide follow-up services or associated services related to the special contract service to the user terminal **200**, regardless of the request of the user

terminal **200**. For example, when a new promotion is generated for specific members, the service server **400** may provide the new promotion to corresponding user terminals **200**.
(58) A smartphone accessory-based membership-only service method including the step of providing the matched membership-only service to the user terminal in response to a request of the user terminal.
(59) The methods as described above may be implemented by the smart terminal accessory-based membership-only service platform **10** as shown in FIG. **1**, and particularly, may be implemented as software programs performing these steps, and in this case, these programs may be stored in a computer-readable recording medium or transmitted by a computer data signal combined with a carrier wave through a transmission medium or communication network.
(60) At this point, the computer-readable recording medium includes all types of recording devices in which data that can be read by a computer system is stored, and it may be, for example, ROM, RAM, CD-ROM, DVD-ROM, DVD-RAM, a magnetic tape, a floppy disk, a hard disk, an optical data storage device, or the like.
(61) Although an embodiment of the present inventive concept has been described above, the spirit of the present inventive concept is not limited to the embodiment presented in this specification, and although those skilled in the art may easily suggest other embodiments by adding, changing, deleting, or adding constitutional components within the scope of the same spirit, it can be said that this also falls within the scope of the present inventive concept.
(62) TABLE-US-00001 DESCRIPTION OF SYMBOLS 10: Smart terminal accessory-based membership-only service platform 100: Smart terminal accessory 110: NFC tag 200: User terminal 300: management server 310: Communication unit 320: Database 330: Control unit 332: NFC authentication unit 334: Service interconnecting unit 400: Service server

Claims

1. A smartphone accessory-based membership-only service platform comprising: a management server for authenticating NFC information requested from a user terminal that identifies an NFC tag from a smart terminal accessory embedded with the NFC tag by means of NFC tagging, and registering the user terminal as a user of the smart terminal accessory; and a service server for registering and interconnecting the user terminal as a member in response to a request from the management server, and providing a membership-only service corresponding to the smart terminal accessory and requested from the user terminal.
2. The platform according to claim 1, wherein when a request for authenticating the identified NFC information is received from the user terminal, the management server is configured to authenticate the identified NFC information according to identification information of the NFC tag.
3. The platform according to claim 1, wherein the management server is configured to determine the user terminal requesting authentication of the NFC information as a real owner of the smart terminal accessory in correspondence to the NFC information and registers the user terminal as a user, and provide an application related to the membership-only service to the user terminal to install.
4. The platform according to claim 1, wherein the management server is configured to request registration of membership and setting of special contracts by transmitting the registered user information and a membership-only service related to the NFC information to the service server.
5. The platform according to claim 4, wherein the service server is configured to register the user terminal as a member corresponding to the NFC information in response to a request from the management server, match the user terminal and a corresponding special contract, and provide a membership-only service matched as a special contract in response to a request of the user terminal.
6. A smartphone accessory-based membership-only service method comprising the steps of:

identifying an NFC tag from a smart terminal accessory embedded with the NFC tag by means of NFC tagging, by a user terminal; authenticating NFC information requested from the user terminal, by a management server; registering the user terminal as a user of the smart terminal accessory, by the management server; registering the user terminal as a member in response to a request from the management server, by the service server; and providing a membership-only service corresponding to the smart terminal accessory and requested from the user terminal, by the service server.

7. The method according to claim 6, wherein the authenticating step includes the steps of: receiving a request for authenticating the identified NFC information from the user terminal; and authenticating the identified NFC information according to identification information of the NFC tag.

8. The method according to claim 6, wherein the step of registering as a user includes the steps of: receiving a request for authenticating the NFC from the user terminal; determining the user terminal requesting authentication of the NFC information as a real owner of the smart terminal accessory in correspondence to the NFC information and registering the user terminal as a user; and providing an application related to the membership-only service to the user terminal to install.

9. The method according to claim 6, wherein the step of registering as a member includes the step of requesting registration of membership and setting of special contracts by transmitting the registered user information and a membership-only service related to the NFC information to the service server, by the management server.

10. The method according to claim 9, wherein the registering step includes the steps of: registering the user terminal as a member corresponding to the NFC information in response to a request from the management server; and matching the user terminal and a corresponding special contract, and the providing step includes the steps of: receiving a request for a membership-only service matched to a corresponding special contract from the user terminal; and providing the matched membership-only service to the user terminal in response to the request of the user terminal.