

INFORMATION PRESENTATION METHOD AND APPARATUS

TECHNICAL FIELD

[0001] The present application relates to the field of computer software technologies, and in particular, to an information presentation method and apparatus.

5

BACKGROUND

[0002] With popularization of mobile end-user devices, various applications on the mobile end-user devices also explosively increase. Most applications generally provide only one specific service such as news browsing, foreign language learning, or photo editing.

10 [0003] In the existing technology, when a user needs a certain service, the user can browse a desktop of a mobile end-user device to search for an application icon corresponding to the service. If the user can find the application icon, the user can click it, to open a corresponding application service interface.

15 [0004] However, when there are many application icons on the desktop, the user possibly needs to perform relatively cumbersome operations such as page turning, icon folder opening, and fuzzy retrieval, to search for the application icon corresponding to the needed service, and applications corresponding to the application icons on the desktop do not necessarily provide the service needed by the user. It can be seen that in the existing technology, it is inconvenient for the user to obtain
20 services.

SUMMARY

[0005] Implementations of the present application provide an information presentation method and apparatus, so as to alleviate a problem in the existing technology that it is less convenient for a user to obtain services.

25 [0006] To alleviate the previously described technical problem, the implementations of the present application are implemented as follows:

[0007] An implementation of the present application provides an information

presentation method, including: sending, by a client device, current scenario information of the client device to a server; obtaining service information of a plurality of services returned by the server, where the service information is obtained by the server by matching the current scenario information; and displaying the service information in a specified interface by using a visualization template; where the service information includes access entry information of an application and/or an application interface of an application.

[0008] An implementation of the present application provides another information presentation method, including: obtaining, by a server, current scenario information of a client device; obtaining service information of a plurality of services by matching the current scenario information; and returning the service information to the client device, so that the client device displays the service information in a specified interface by using a visualization template; where the service information includes access entry information of an application and/or an application interface of an application.

[0009] An implementation of the present application provides an information presentation apparatus, where the apparatus is located on a client device, and includes the following: a sending module, configured to send current scenario information of the client device to a server; an acquisition module, configured to obtain service information of a plurality of services returned by the server, where the service information is obtained by the server by matching the current scenario information; and a display module, configured to display the service information in a specified interface by using a visualization template; where the service information includes access entry information of an application and/or an application interface of an application.

[0010] An implementation of the present application provides an information presentation apparatus, where the apparatus is located on a server, and includes the following: a first acquisition module, configured to obtain current scenario information of a client device; a second acquisition module, configured to obtain service information of a plurality of services by matching the current scenario information; and a returning module, configured to return the service information to the client device, so that the client device displays the service information in a specified interface by using a visualization template; where the service information includes access entry information of an application and/or an application interface of

an application.

[0011] The previously described at least one technical solution used in the implementations of the present application can achieve the following beneficial effects: A scenario that a user is located in can be speculated based on the current
5 scenario information of the client device, the service information of the plurality of services that the user possibly needs in the scenario is obtained, and the service information is displayed to the user by using the visualization template, so that the user obtains a corresponding service based on the displayed service information. The service information includes the access entry information of the application and/or the
10 application interface of the application. Therefore, it is more convenient for the user to obtain services, and some or all problems in the existing technology can be alleviated.

BRIEF DESCRIPTION OF DRAWINGS

[0012] To describe the technical solutions in the implementations of the present application or in the existing technology more clearly, the following briefly describes
15 the accompanying drawings for describing the implementations or the existing technology. Apparently, the accompanying drawings in the following description show some implementations of the present application, and a person of ordinary skill in the art can still derive other drawings from these accompanying drawings without creative efforts.

20 [0013] FIG. 1 is a schematic flowchart illustrating an information presentation method, according to an implementation of the present application;

[0014] FIG. 2 is a schematic flowchart illustrating another information presentation method that corresponds to FIG. 1, according to an implementation of the present application;

25 [0015] FIG. 3 is a schematic principle diagram illustrating a specific implementation solution of the previously described information presentation method in an actual application scenario, according to an implementation of the present application;

[0016] FIG. 4 is a schematic diagram illustrating a card displayed on a client
30 device in the scenario shown in FIG. 3, according to an implementation of the present application;

[0017] FIG. 5 is a schematic diagram illustrating another card displayed on a

client device in the scenario shown in FIG. 3, according to an implementation of the present application;

[0018] FIG. 6 is a schematic structural diagram illustrating an information presentation apparatus that corresponds to FIG. 1, according to an implementation of the present application; and

[0019] FIG. 7 is a schematic structural diagram illustrating an information presentation apparatus that corresponds to FIG. 2, according to an implementation of the present application.

DESCRIPTION OF IMPLEMENTATIONS

[0020] Implementations of the present application provide an information presentation method and apparatus.

[0021] To make a person skilled in the art understand the technical solutions in the present application better, the following clearly and comprehensively describes the technical solutions in the implementations of the present application with reference to the accompanying drawings in the implementations of the present application. Apparently, the described implementations are merely some but not all of the implementations of the present application. All other implementations obtained by a person of ordinary skill in the art based on the implementations of the present application without creative efforts shall fall within the protection scope of the present application.

[0022] A core idea of the present application is as follows: A scenario that a user is currently located in is speculated based on current scenario information of a client device of the user, service information of a plurality of services (the user possibly needs these services in the scenario) applicable to the scenario is obtained, and the service information is flexibly displayed to the user on the client device by using a visualization template such as a card, so that the user obtains a corresponding service by using the service information, and it is more convenient for the user to obtain services.

[0023] The following describes the solutions of the present application in detail.

[0024] During specific implementation, the solutions of the present application can relate to actions on a client device and a server. It is worthwhile to note that the "server" is a general term of software and hardware that are located on a peer end of

the client device and that can serve the client device, and the software and hardware are not necessarily located in a same device or a same system.

[0025] FIG. 1 is a schematic flowchart illustrating an information presentation method, according to an implementation of the present application. From a perspective of software, an execution body of the procedure is a client device. From a perspective of a device, an execution body of the procedure can include but is not limited to the following devices that can include a client device: a mobile phone, a tablet computer, a smartwatch, a vehicle, a personal computer, a large and medium-sized computer, a computer cluster, etc. By using the mobile phone as an example, the client device can be a certain application on the mobile phone.

[0026] The procedure in FIG. 1 can include the following steps.

[0027] S101. A client device sends current scenario information of the client device to a server.

[0028] In this implementation of the present application, the current scenario information can directly or indirectly reflect a scenario that the client device is currently located in.

[0029] Specifically, the current scenario information can be information reflecting an environment that the client device is located in, for example, geographical location information, weather information, and human activity information of a location that the client device is located in. Alternatively, the current scenario information can be information reflecting an operation performed on a device that the client device is located in, for example, usage information and setting information of another application on the client device or on the device that the client device is located in. The current scenario information can be obtained by the client device from any program on the device that the client device is located in, or can be obtained from a network.

[0030] In this implementation of the present application, the current scenario information can be included in a service information acquisition request and then sent to the server.

[0031] S102. Obtain service information of a plurality of services returned by the server, where the service information is obtained by the server by matching the current scenario information, and the service information includes access entry information of an application and/or an application interface of an application.

[0032] In this implementation of the present application, after receiving the

current scenario information sent by the client device, the server can match the current scenario information against predetermined scenario content information, to speculate a scenario that a user of the client device is located in, obtain service information of a plurality of services applicable to the scenario, and return the service information to the client device.

[0033] Scenario content information matched against the current scenario information and the current scenario information have a same type or are related; otherwise, a matching result is meaningless. For example, if the current scenario information is geographical location information, the scenario content information matched against the current scenario information can also be geographical location information (or identification information related to the geographical location information, for example, food information and human activity information that can reflect the geographical location). When a deviation between a geographical location corresponding to the current scenario information and a geographical location corresponding to the scenario content information does not exceed a determined threshold, it can be considered that the two pieces of information successfully match.

[0034] In this implementation of the present application, the service information can be obtained without matching the scenario content information, but by directly matching the service information. The following implementation is still described by mainly using an idea that the service information is obtained by matching the scenario information of the client device against the scenario content information of the server.

[0035] In this implementation of the present application, the service information of "the plurality of services" needs to be returned. This is because in practice, even if a scenario that a user is located in is speculated, it is difficult to accurately determine that the user certainly needs to use a certain service, and only a service (including the plurality of services) that the user possibly uses can be speculated. Therefore, compared with returning service information of only one service, it is more likely that returning the service information of the plurality of services satisfies a user need. In addition, a need for the service information of each of the plurality of services to satisfy the user need can be reduced, which is conducive to improving fault tolerance of the solutions in the present application.

[0036] In the present application, a specific quantity of services is not limited. An excessively large quantity of service possibly causes a burden to the client device, and is not conducive to user selection. Therefore, an appropriate quantity of services can

be determined based on an actual condition. Therefore, it is better that the plurality of services are different services (because only one of two services that are the same or similar is usually used by the user), so as to help reduce the quantity of services.

5 [0037] In this implementation of the present application, the server can specifically return the service information in a plurality of methods, and several methods are lists as examples.

[0038] In a first method, the server only returns the service information of the plurality of services, and does not interfere with how the client device displays the service information.

10 [0039] In a second method, the server integrates the service information and a visualization template, and returns integrated information to the client device, and the client device only needs to display the received information.

[0040] In a third method, the server returns the service information and template indication information together or separately to the client device, and the client device
15 displays the service information by using a visualization template indicated by the template indication information.

[0041] In this implementation of the present application, if there is no scenario information on the server that can be successfully matched with the current scenario information, the server possibly returns no service information or returns some default
20 service information, and can return corresponding prompt information to the client device.

[0042] In this implementation of the present application, the service information can be access entry information of an application (for example, a hyperlink of an application interface or an application start shortcut corresponding to a service),
25 and/or an application interface of an application. The application can be an independent third-party application, or can be at least some built-in applications integrated into the client device. Certainly, on this basis, the service information can further include some other information such as advertisements or instruction information. An application corresponding to the service information can provide a
30 service corresponding to the service information.

[0043] S103. Display the service information in a specified interface by using a visualization template.

[0044] In this implementation of the present application, the visualization template can be specifically in a plurality of styles, for example, a card-style template

and an icon-style template. Specific styles can be different, and the specific style includes but is not limited to a size, a shape, a color, a texture, a shadow, a pattern, etc.

5 [0045] In this implementation of the present application, the current scenario information of the client device can be different at different times as described above. Therefore, the procedure in FIG. 1 is usually performed more than once. For example, because the scenario that the user of the client device is located in changes many times in a period of time, the procedure is also possibly performed many times.

10 [0046] According to the method in FIG. 1, the scenario that the user is located in can be speculated based on the current scenario information of the client device, the service information of the plurality of services that the user possibly needs in the scenario is obtained, and the service information is displayed to the user by using the visualization template, so that the user obtains a corresponding service based on the displayed service information. The service information includes the access entry
15 information of the application and/or the application interface of the application. Therefore, it is more convenient for the user to obtain services, and some or all problems in the existing technology can be alleviated.

[0047] Based on the method in FIG. 1, this implementation of the present application further provides some specific implementation solutions and extension
20 solutions of the method, which are described below.

[0048] In this implementation of the present application, that a client device sends current scenario information of the client device to a server in step S101 can specifically include the following: The client device sends the current scenario information of the client device to the server when the client device is started or a
25 specified interface is refreshed. Alternatively, the client device can send the current scenario information of the client device to the server when detecting that the current scenario information changes; or the client device regularly sends the current scenario information of the client device to the server, etc.

[0049] The specified interface can be an interface subsequently used by the client
30 device to display service information.

[0050] In this implementation of the present application, the current scenario information can include the information reflecting the environment that the client device is located in as described above. In practice, geographical location information is important information reflecting an environment, and is easily obtained.

Considering costs, the geographical location information can be used in a specific implementation solution of the solutions of the present application.

[0051] In this case, the information reflecting the environment that the client device is located in can be specifically global positioning system (GPS) positioning information of the device that the client device is located in, and/or information about Wireless Fidelity (WiFi) connected to the device that the client device is located in. The geographical location information of the client device can be directly or indirectly obtained based on the information (for example, by parsing the information by using a location service). In this case, the service information is obtained by the server by matching the information reflecting the environment that the client device is located in against predetermined geographical location information, and the service information corresponds to successfully matched geographical location information.

[0052] Further, the service information of the plurality of services that corresponds to the geographical location information can be specifically service information applicable to a service used by the user in the geographical location. Correspondingly, when being in the geographical location, the user possibly needs to use the service.

[0053] For example, when a user in a country A travels to a country B, the user possibly needs a monetary exchange rate conversion service, a traffic information service in the country B, etc. when being in the country B.

[0054] In addition to the geographical location information, other information that can reflect the environment can also be used as the current scenario information, for example, weather information. Assume that the weather information obtained from the client device is snow, the successfully matched scenario information can also be the snow information, and a service corresponding to the snow information can be a traffic information service (the snow easily causes traffic congestion, and therefore the user possibly needs the traffic information service) or a facility guide service on snowy days (for example, a service for prompting where to install a tire chain for the vehicle or a service for calling a snow clearer).

[0055] In this implementation of the present application, as described above, the current scenario information can also include the information reflecting the operation performed on the device that the client device is located in, for example, usage information and setting information of another application on the client device or on the device that the client device is located in.

[0056] By using the usage information as an example, the usage information is usually generated because the user performs an operation on the device that the client device is located in, and the user starts a certain application on the device, performs service interaction by using a certain application, etc. The scenario that the user is located in can also be speculated based on the usage information.

[0057] For example, when the current scenario information is specifically information that the user uses a train ticket reservation service, the service information of the plurality of services on the server that corresponds to scenario information successfully matched with the information can be hotel service information of a destination city for which the user reserves a train ticket, hot spot service information, etc. This is because the user possibly needs to continue to reserve a destination hotel, query a destination scenic spot, etc. after reserving the train ticket.

[0058] In this implementation of the present application, the service information of the plurality of services returned by the server can be obtained from each predetermined service provider, and the predetermined service provider can be a service provider of the server, or can be a third-party service provider (for example, a service provider of an external application).

[0059] The service provider can further actively provide corresponding scenario content information while providing the service information. In this case, a correspondence between the service information and the scenario content information is actually determined by the service provider. Certainly, the correspondence can also be determined by the server. In this case, the server can determine the corresponding scenario content information based on the service information provided by each service provider.

[0060] In practice, the service information provided by the service provider, and/or the scenario content information, and/or the correspondence between the two pieces of information are/is not necessarily reliable. To prevent such uncertainty from causing poor experience to the user, the information provided by the service provider can be mechanically or manually audited in advance on the server, and can be used in a subsequent procedure only after the auditing succeeds.

[0061] For example, the correspondence between the service information and the successfully matched scenario content information is determined based on the following mechanical or manual determination result: A service corresponding to the service information is applicable to a scenario corresponding to the successfully

matched scenario information. The determination result can be obtained through the previously described auditing, or can be directly obtained by using the correspondence provided by the service provider. The term "applicable to" is usually described by analyzing service usage habits of many users based on big data or experience. This is not limited in the present application.

[0062] In this implementation of the present application, the server can further return template indication information to the client device as described above. In this case, before the displaying the service information in a specified interface by using a visualization template in step S103, the procedure can further include the following: obtaining, by the client device, template indication information returned by the server.

[0063] Correspondingly, the displaying the service information in a specified interface by using a visualization template can specifically include the following: displaying the service information in the specified interface by using a visualization template indicated by the template indication information.

[0064] An example that the server returns the service information together with the template indication information is used. The server can represent the service information and the template indication information in a form of a character string JSON or a character string XML, and then return the character string to the client device. The character string includes a plurality of predetermined fields and field values determined based on the service information, and the character string reflects the service information and a visualization template that should be used to display the service information.

[0065] In this implementation of the present application, the client device can add all service information returned by the server in a same visualization template for display, or can separately add each of all service information in one visualization template for display.

[0066] By using a card-style visualization template as an example, all the service information returned by the server can be added to a same "card" for display in the former case, and service information of each service can be added to one "card" for display and the cards are simultaneously displayed by using a certain layout in the latter case. The former display mode has the following advantage: Each card corresponds to one scenario, so as to facilitate unified management and display. The latter display mode has the following advantage: When the scenario that the client device is located in changes, it is convenient to independently process one or more

pieces of service information(for example, only to modify a certain card or delete a certain card) in a unit of a card, which helps to reduce impact on an entire display pattern, and further helps to reduce a processing burden of the client device.

5 [0067] In addition to the card-style visualization template, an icon-style visualization template, a three-dimensional graph-style visualization template, etc. are also applicable to the solutions of the present application. Details are omitted here for simplicity.

10 [0068] In this implementation of the present application, a method used by the user to obtain a service based on the displayed service information varies with a specific form of the service information.

[0069] When the service information includes the access entry information of the application, the user further needs to perform an access operation, to obtain the corresponding service. Specifically, after the displaying the service information in a specified interface by using a visualization template, the procedure can further include
15 the following: when detecting a specified operation performed on the displayed visualization template that includes the access entry information of the application, displaying, by the client device, an application interface of an application corresponding to the service information, or invoking another client, so that the another client displays the application interface of the application corresponding to
20 the service information. Further, the user can obtain the service by using a service interface.

[0070] The specified operation can be a click operation, a press operation, etc. performed on an area displayed by the access entry information.

25 [0071] In this implementation of the present application, the scenario that the client device is located in possibly changes as described above. Therefore, the service information included in the visualization template displayed on the client device should not remain unchanged. The service information can change in at least the following two methods:

30 [0072] In a first method, at least a part of the service information displayed on the client device is replaced and updated by performing the procedure in FIG. 1.

[0073] In a second method, the client device and/or the server detect/detects changed current scenario information of the client device, and when determining that the changed current scenario information cannot be successfully matched with the previously successfully matched scenario content information, the client device and/or

the server can delete or hide at least a part of the currently displayed visualization template that includes the service information.

[0074] By using the card-style visualization template as an example, from a perspective of a user, the client device possibly displays a new card (the server pushes the new card) and deletes or hides a previous card (the server withdraws the previous card) after the scenario that the user is located in changes. In this case, the user can conveniently obtain a plurality of services applicable to a current scenario as the scenario changes, which brings scenario immersion service experience to the user. "Scenario immersion" for the user usually means that the client device of the user knows a scenario that the user is currently located in, services that the user possibly needs, and service information of these services is accurately provided to the user in time.

[0075] The procedure in FIG. 1 is mainly described from a perspective of a client device. An implementation of the present application further provides a procedure described from a perspective of a server, and the procedure corresponds to the procedure in FIG. 1, which is shown in FIG. 2.

[0076] FIG. 2 is a schematic flowchart illustrating another information presentation method that corresponds to FIG. 1, according to an implementation of the present application. From a perspective of software, an execution body of the procedure is a server. From a perspective of a device, an execution body of the procedure can include but is not limited to the following devices (which are usually used as a server in this case) that can include a server: a mobile phone, a tablet computer, a smartwatch, a vehicle, a personal computer, a large and medium-sized computer, a computer cluster, etc.

[0077] The procedure in FIG. 2 can include the following steps.

[0078] S201. A server obtains current scenario information of a client device.

[0079] S202. Obtain service information of a plurality of services by matching the current scenario information, where the service information includes access entry information of an application and/or an application interface of an application.

[0080] S203. Return the service information to the client device, so that the client device displays the service information in a specified interface by using a visualization template.

[0081] According to the method in FIG. 2, a scenario that a user is located in can be speculated based on the current scenario information of the client device, the

service information of the plurality of services that the user possibly needs in the scenario is obtained, and the service information is displayed to the user by using the visualization template, so that the user obtains a corresponding service based on the displayed service information. The service information includes the access entry
5 information of the application and/or the application interface of the application. Therefore, it is more convenient for the user to obtain services, and some or all problems in the existing technology can be alleviated.

[0082] Because some actions of the server in the solutions of the present application have been described in detail above, supplementary descriptions are
10 mainly provided here, and repeated content is omitted or merely simply described.

[0083] In this implementation of the present application, the obtaining service information of a plurality of services by matching the current scenario information in step S202 can specifically include the following: matching the current scenario information against predetermined scenario content information, to determine
15 successfully matched scenario content information; and obtaining the service information of the plurality of services that corresponds to the successfully matched scenario content information.

[0084] In this implementation of the present application, before the obtaining service information of a plurality of services by matching the current scenario information in step S202, the procedure can further include the following: obtaining,
20 by using a predetermined interface, the following information sent by each predetermined service provider: service information of a service that can be provided by the service provider and geographical location information corresponding to the service information, where the obtained geographical location information is used as
25 scenario content information corresponding to the service information. In this case, the current scenario information obtained from the client device can be the geographical location information.

[0085] In this implementation of the present application, the procedure in FIG. 2 can further include the following: returning, by the server, template indication
30 information to the client device, so that the client device displays the service information in the specified interface by using a visualization template indicated by the template indication information.

[0086] In this implementation of the present application, each piece of scenario information of the server possibly corresponds to a plurality of pieces of service

information of services, and a same service that can be provided by a plurality of service providers can correspond to a plurality of pieces of service information. In practice, it is unrealistic to return all service information corresponding to scenario information that matches the current scenario information of the client device to the client device. This is because there are many redundant services, and consequently processing burdens of the client device and the server are excessively large. Corresponding measures are also provided in the solutions of the present application for this problem, which are described below.

[0087] Specifically, the obtaining the service information of the plurality of services that corresponds to the successfully matched scenario content information in step S202 can specifically include the following: obtaining service information of at least some of all services corresponding to the successfully matched scenario content information; and performing, based on a predetermined integration rule and/or filtering rule, integration and/or filtering on the service information of the at least some services corresponding to the successfully matched scenario content information, to obtain service information of a plurality of services that are not repeated.

[0088] It is worthwhile to note that de-duplication is only one of objectives that can be achieved through the previously described integration and/or filtering, and more objectives can be further achieved.

[0089] For example, through the previously described integration and/or filtering, a visualization template that includes the service information of the plurality of services that are not repeated can be obtained, or the service information of the plurality of services that are not repeated and template indication information (which can be represented in a form of a character string JSON, a character string XML string, etc.) can be obtained. Correspondingly, the returning the service information to the client device in step S203 can specifically include the following: returning the visualization template that includes the service information of the plurality of services that are not repeated to the client device, or returning the service information of the plurality of services that are not repeated and the template indication information to the client device.

[0090] For another example, service information with a higher priority can be selected based on a certain service information priority policy and then preferably returned.

[0091] In this implementation of the present application, after the returning the

service information to the client device in step S203, the procedure can further include the following: detecting, by the server, the current scenario information of the client device; and when determining that the detected current scenario information cannot successfully match the successfully matched scenario content information (it can be considered that the user has left the previous scenario), sending corresponding indication information to the client device, so that the client device deletes or hides the displayed visualization template that includes the service information corresponding to the successfully matched scenario content information. The detection-related actions can be implemented by performing the procedure in FIG. 2 again, or can be implemented by using logical procedures other than the procedure in FIG. 2.

[0092] The indication information can be service information returned by the server again, or can be information that does not include service information, but merely instructs the client device to delete or hide the service information.

[0093] The information presentation method provided in the implementations of the present application is described above separately from a perspective of a client device and from a perspective of a server. For ease of understanding, an implementation of the present application further provides a schematic principle diagram illustrating a specific implementation solution of the previously described information presentation method in an actual application scenario, according to an implementation of the present application, which is shown in FIG. 3.

[0094] In the actual application scenario, the client device is located on a mobile phone. The client device sends a service information obtaining request that carries current scenario information (which is assumed to be GPS positioning information and/or Wi-Fi information) of the client device to a scenario content system on a server side each time a user starts the client device.

[0095] An auditing system on the server side pre-obtains service information of services and corresponding scenario content information (which is assumed to be geographical location information) from a plurality of predetermined service providers (which are assumed to be external service providers, external merchants, etc.), mechanically or manually audits the information, and sends audited information to the scenario content system for storage.

[0096] After receiving the service information obtaining request, the scenario content system parses the GPS positioning information and/or the Wi-Fi information

carried in the request by using a location service, to obtain corresponding geographical location information, matches the geographical location information against stored scenario content information, and sends at least a part of service information corresponding to the matched scenario content information to an integration system on the server side.

[0097] The integration system integrates the service information, to generate a character string JSON (which is equivalent to a "card" to be displayed) that includes template indication information and service information of a plurality of services, and returns the character string JSON to the client device.

10 [0098] The client device displays a corresponding card in a specified interface based on the received character string JSON.

[0099] Further, implementations of the present application further provide schematic diagrams illustrating two cards displayed on a client device in the scenario shown in FIG. 3, which are shown in FIG. 4 and FIG. 5.

15 [0100] FIG. 4 is a schematic diagram illustrating a card displayed on a client device in the scenario shown in FIG. 3, according to an implementation of the present application. The card can be obtained based on information that is sent by the client device to a server and that can reflect an environment that the client device is located in, for example, GPS positioning information and/or Wifi information.

20 [0101] Assume that a certain Chinese user travels to Korea on business, when the user is in Korea and turns on the previously described client on a mobile phone for the first time, the client device displays a card by interacting with the server. The card can be shown in FIG. 4. It can be seen that the card includes service information of seven services that the user possibly needs to use in South Korea, namely, "Uber" (corresponding to a taxi hailing application that can be used in a plurality of countries),
25 "Airbnb" (corresponding to a hotel reservation application that can be used to reserve hotels in a plurality of countries), "Overseas Data Plan" (corresponding to an international data plan service provided by a certain mobile telecommunication company), "Tax Refund" (corresponding to a tax refund information service in South
30 Korea), "Exchange Rate Conversion" (corresponding to at least an exchange rate service between RMB and KRW), "Discount Store" (corresponding to at least a shopping service in South Korea), and "Pay in Person" (corresponding to at least an international electronic payment service).

[0102] The service information "Exchange Rate Conversion" is an application

interface of an application, and the user can directly see from the card that a current exchange rate is " 0.6 RMB for 100 KRW". The other service information can be access entry information of an application. The user can open a corresponding application interface by clicking the service information, and then obtain a corresponding service.

[0103] After the user leaves South Korea, the client device can delete the card in FIG. 4, and then display another card suitable for a scenario.

[0104] FIG. 5 is a schematic diagram illustrating another card displayed on a client device in the scenario shown in FIG. 3, according to an implementation of the present application. The card can be obtained based on information that is sent by the client device to a server and that reflects an operation performed on a device that the client device is located in, for example, application usage information.

[0105] Assume that the application usage information reflects that a user has just purchased a ticket for a certain concert by using a network ticket application on the device that the client device is located in, when the user turns on the client device for the first time, the client device displays a card by interacting with the server. The card can be shown in FIG. 5. It can be seen that the card includes service information of six services that the user possibly needs to use after purchasing the ticket for the concert, namely, "live TV application" (the user possibly broadcasts the concert), "gift shopping application" (the user possibly purchases gifts for the singer in the concert or accompanying friends), "props shopping application" (the user possibly purchases props used to give a cheer to the singer in the concert), "alarm clock application" (the user possibly sets the alarm clock for some important time before the concert), "lyrics application" (the user possibly needs to query lyrics when singing along in the concert), and "photography application" (the user possibly needs to take photos in the concert).

[0106] After the concert ends, the client device can delete the card in FIG. 5 and then display another card suitable for a scenario.

[0107] It is worthwhile to note that specific styles of the cards in FIG. 4 and FIG. 5 and service information included in the cards are merely examples, and do not constitute a limitation on the present application.

[0108] Further, an implementation of the present application further provides an apparatus corresponding to the previously described information presentation method, which is shown in FIG. 6 and FIG. 7.

[0109] FIG. 6 is a schematic structural diagram illustrating an information presentation apparatus that corresponds to FIG. 1, according to an implementation of the present application. The apparatus can be located on an execution body (for example, a client device) of the procedure in FIG. 1, and includes the following: a sending module 601, configured to send current scenario information of the client device to a server; an acquisition module 602, configured to obtain service information of a plurality of services returned by the server, where the service information is obtained by the server by matching the current scenario information; and a display module 603, configured to display the service information in a specified interface by using a visualization template; where the service information includes access entry information of an application and/or an application interface of an application.

[0110] Optionally, that a sending module 601 sends current scenario information of the client device to a server specifically includes the following: the sending module 601 sends the current scenario information of the client device to the server when the client device is started or a specified interface is refreshed.

[0111] Optionally, the current scenario information includes information reflecting an environment that the client device is located in and/or information reflecting an operation performed on a device that the client device is located in.

[0112] Optionally, the information reflecting the environment that the client device is located in includes global positioning system (GPS) positioning information of the device that the client device is located in, and/or information about Wireless Fidelity (WiFi) connected to the device that the client device is located in; and the service information is obtained by the server by matching the information reflecting the environment that the client device is located in against predetermined geographical location information, and the service information corresponds to successfully matched geographical location information.

[0113] Optionally, before the display module 603 displays the service information in the specified interface by using the visualization template, the acquisition module 602 obtains template indication information returned by the server; and that a display module 603 displays the service information in a specified interface by using a visualization template specifically includes the following: the display module 603 displays the service information in the specified interface by using a visualization template indicated by the template indication information.

[0114] Optionally, that a display module 603 displays the service information in a specified interface by using a visualization template specifically includes the following: the display module 603 adds the service information to a same visualization template, and displays a visualization template that includes the service information in the specified interface.

[0115] Optionally, when the service information includes the access entry information of the application, after the display module 603 displays the service information in the specified interface by using the visualization template, when a specified operation performed on the displayed visualization template that includes the access entry information of the application is detected, the display module 603 displays an application interface of an application corresponding to the service information, or invokes another client, so that the another client displays the application interface of the application corresponding to the service information.

[0116] Optionally, the service information corresponds to scenario content information on the server that is successfully matched with the current scenario information; and after the display module 603 displays the service information in the specified interface by using the visualization template, when it is determined that the current scenario information of the client device is no longer successfully matched with the successfully matched scenario content information, the display module 603 deletes or hides the displayed visualization template that includes the service information.

[0117] Optionally, the visualization template includes a card-style template.

[0118] FIG. 7 is a schematic structural diagram illustrating an information presentation apparatus that corresponds to FIG. 2, according to an implementation of the present application. The apparatus can be located on an execution body (for example, a server) of the procedure in FIG. 2, and includes the following: a first acquisition module 701, configured to obtain current scenario information of a client device; a second acquisition module 702, configured to obtain service information of a plurality of services by matching the current scenario information; and a returning module 703, configured to return the service information to the client device, so that the client device displays the service information in a specified interface by using a visualization template; where the service information includes access entry information of an application and/or an application interface of an application.

[0119] Optionally, the current scenario information includes information

reflecting an environment that the client device is located in and/or information reflecting an operation performed on a device that the client device is located in.

[0120] Optionally, that a second acquisition module 702 obtains service information of a plurality of services by matching the current scenario information specifically includes the following: the second acquisition module 702 matches the current scenario information against predetermined scenario content information, to determine successfully matched scenario content information; and obtains the service information of the plurality of services that corresponds to the successfully matched scenario content information.

[0121] Optionally, the information reflecting the environment that the client device is located in includes global positioning system (GPS) positioning information of the device that the client device is located in, and/or information about Wireless Fidelity (WiFi) connected to the device that the client device is located in; and the scenario content information is geographical location information.

[0122] Optionally, before obtaining the service information of the plurality of services by matching the current scenario information, the second acquisition module 702 obtains, by using a predetermined interface, the following information sent by each predetermined service provider: service information of a service that can be provided by the service provider and geographical location information corresponding to the service information, where the obtained geographical location information is used as scenario content information corresponding to the service information.

[0123] Optionally, the returning module 703 further returns template indication information to the client device, so that the client device displays the service information in the specified interface by using a visualization template indicated by the template indication information.

[0124] Optionally, that the second acquisition module 702 obtains the service information of the plurality of services that corresponds to the successfully matched scenario content information specifically includes the following: the second acquisition module 702 obtains service information of at least some of all services corresponding to the successfully matched scenario content information; and performs, based on a predetermined integration rule and/or filtering rule, integration and/or filtering on the service information of the at least some services corresponding to the successfully matched scenario content information, to obtain service information of a plurality of services that are not repeated.

[0125] Optionally, that the second acquisition module 702 performs integration and/or filtering on the service information of the at least some services corresponding to the successfully matched scenario content information, to obtain service information of a plurality of services that are not repeated specifically includes the following: the second acquisition module 702 performs integration and/or filtering on the service information of the at least some services corresponding to the successfully matched scenario content information, to obtain the service information of the plurality of services that are not repeated and template indication information; and that a returning module 703 returns the service information to the client device specifically includes the following: the returning module 703 returns the service information of the plurality of services that are not repeated and the template indication information to the client device.

[0126] Optionally, after returning the service information to the client device, the returning module 703 detects the current scenario information of the client device; and when determining that the detected current scenario information cannot successfully match the successfully matched scenario content information, sends corresponding indication information to the client device, so that the client device deletes or hides the displayed visualization template that includes the service information corresponding to the successfully matched scenario content information.

[0127] Optionally, the visualization template includes a card-style template.

[0128] The apparatus and the method provided in the implementations of the present application are in a one-to-one correspondence. Therefore, the apparatus also have beneficial technical effects similar to those of the method. Because the beneficial technical effects of the method have been described in detail, the beneficial technical effects of the corresponding apparatus are omitted here.

[0129] In the 1990s, improvement of a technology can be clearly distinguished between hardware improvement (for example, improvement on a circuit structure such as a diode, a transistor, or a switch) and software improvement (improvement on a method procedure). However, with the development of technologies, improvement of many method procedures can be considered as direct improvement of a hardware circuit structure. Designers almost all program an improved method procedure to a hardware circuit, to obtain a corresponding hardware circuit structure. Therefore, it cannot be said that improvement of a method procedure cannot be implemented by using a hardware entity module. For example, a programmable logic device (PLD)

(for example, a field programmable gate array (FPGA)) is such an integrated circuit. A logical function of the programmable logic device is determined by component programming executed by a user. The designers perform voluntary programming to "integrate" a digital system into a single PLD without requiring a chip manufacturer to design and produce a dedicated integrated circuit chip. In addition, instead of manually producing an integrated circuit chip, the programming is mostly implemented by "logic compiler" software, which is similar to a software compiler used during program development. Original code before compiling is also written in a specific programming language, which is referred to as a hardware description language (HDL), and there is more than one type of HDL, such as ABEL (Advanced Boolean Expression Language), an AHDL (Altera Hardware Description Language), Confluence, CUPL (Cornell University Programming Language), an HDCal, JHDL (Java Hardware Description Language), a Lava, Lola, a MyHDL, PALASM, and an RHDL (Ruby Hardware Description Language), etc. Currently, VHDL (Very-High-Speed Integrated Circuit Hardware Description Language) and Verilog are most commonly used. A person skilled in the art should also understand that a method procedure only needs to be logically programmed, and programmed to the integrated circuit by using the previous hardware description languages so that a hardware circuit that implements the logical method procedure can be easily obtained.

[0130] A controller can be implemented by using any appropriate method. For example, the controller can be a microprocessor or a processor, or a computer-readable medium, a logic gate, a switch, an application-specific integrated circuit (ASIC), a programmable logic controller, or an embedded microprocessor that stores computer readable program code (such as software or firmware) that can be executed by the microprocessor or the processor. Examples of the controller include but are not limited to the following microprocessors: ARC 625D, Atmel AT91SAM, Microchip PIC18F26K20, and Silicone Labs C8051F320. The memory controller can also be implemented as a part of the control logic of the memory. A person skilled in the art also knows that a controller can be implemented by using pure computer-readable program code, and the steps in the method can be logically programmed to enable the controller to further implement same functions in forms of a logic gate, a switch, an application-specific integrated circuit, a programmable logic controller, an embedded microcontroller, etc. Therefore, the controller can be considered as a hardware component, and an apparatus that is included in the

controller and that is configured to implement various functions can also be considered as a structure in the hardware component. Alternatively, an apparatus configured to implement various functions can be considered as both a software module for implementing the method and a structure in the hardware component.

5 [0131] The system, apparatus, module, or unit described in the described implementations can be implemented by a computer chip or an entity, or implemented by a product with a certain function. A typical implementation device is a computer. The computer can be, for example, a personal computer, a laptop computer, a cellular phone, a camera phone, a smartphone, a personal digital assistant, a media player, a
10 navigation device, an email device, a game console, a tablet computer, or a wearable device, or a combination of any of these devices.

[0132] For ease of description, the described apparatus is described by dividing functions into various units. Certainly, when the present application is implemented, the functions of the units can be implemented in one or more pieces of software
15 and/or hardware.

[0133] A person skilled in the art should understand that the implementations of the present disclosure can be provided as a method, a system, or a computer program product. Therefore, the present disclosure can use a form of hardware only implementations, software only implementations, or implementations with a
20 combination of software and hardware. In addition, the present disclosure can use a form of a computer program product that is implemented on one or more computer-usable storage media (including but not limited to a disk memory, a CD-ROM, and an optical memory) that include computer-usable program code.

[0134] The present disclosure is described with reference to the flowcharts and/or
25 block diagrams of the method, the device (system), and the computer program product according to the implementations of the present disclosure. It should be understood that computer program instructions can be used to implement each process and/or each block in the flowcharts and/or the block diagrams and a combination of a process and/or a block in the flowcharts and/or the block diagrams. These computer program
30 instructions can be provided for a general-purpose computer, a dedicated computer, an embedded processor, or a processor of any other programmable data processing device to generate a machine so that the instructions executed by a computer or a processor of any other programmable data processing device generate an apparatus for implementing a specific function in one or more processes in the flowcharts or in

one or more blocks in the block diagrams.

[0135] These computer program instructions can be stored in a computer readable memory that can instruct the computer or any other programmable data processing device to work in a specific method, so that the instructions stored in the computer readable memory generate an artifact that includes an instruction apparatus. The instruction apparatus implements a specific function in one or more processes in the flowcharts and/or in one or more blocks in the block diagrams.

[0136] These computer program instructions can be loaded to a computer or another programmable data processing device, so that a series of operations and steps are performed on the computer or the another programmable device, generating computer-implemented processing. Therefore, the instructions executed on the computer or the another programmable device provide steps for implementing a specific function in one or more processes in the flowcharts or in one or more blocks in the block diagrams.

[0137] In a typical configuration, the computing device includes one or more processors (CPU), one or more input/output interface, one or more network interface, and one or more memory.

[0138] The memory can include a non-persistent memory, a random access memory (RAM) and/or a nonvolatile memory in a computer readable medium, for example, a read-only memory (ROM) or a flash memory (flash RAM).

[0139] The computer readable medium includes persistent, non-persistent, movable, and unmovable media that can implement information storage by using any method or technology. Information can be a computer readable instruction, a data structure, a program module, or other data. A computer storage medium includes but is not limited to a parameter random access memory (PRAM), a static random access memory (SRAM), a dynamic random access memory (DRAM), a random access memory (RAM) of another type, a read-only memory (ROM), an electrically erasable programmable read-only memory (EEPROM), a flash memory or another memory technology, a compact disc read-only memory (CD-ROM), a digital versatile disc (DVD) or another optical storage, a magnetic tape, a magnetic disk storage, another magnetic storage device, or any other non-transmission media that can be used to store information that can be accessed by the computing device. Based on the definition in the present specification, the computer readable medium does not include transitory computer readable medium (transitory media), for example, a modulated

data signal and carrier.

[0140] It is worthwhile to further note that the term "include", "contain", or their any other variant is intended to cover a non-exclusive inclusion, so that a process, a method, merchandise, or a device that includes a list of elements not only includes
5 those elements but also includes other elements which are not expressly listed, or further includes elements inherent to such process, method, merchandise, or device. An element preceded by "includes a ..." does not, without more constraints, preclude the existence of additional identical elements in the process, method, merchandise, or device that includes the element.

10 **[0141]** A person skilled in the art should understand that the implementations of the present application can be provided as a method, a system, or a computer program product. Therefore, the present application can use a form of hardware only implementations, software only implementations, or implementations with a combination of software and hardware. In addition, the present application can use a
15 form of a computer program product that is implemented on one or more computer-usable storage media (including but not limited to a disk memory, a CD-ROM, and an optical memory) that include computer-usable program code.

[0142] The present application can be described in the general context of computer executable instructions executed by a computer, for example, a program
20 module. Generally, the program module includes a routine, a program, an object, a component, a data structure, etc. for executing a specific task or implementing a specific abstract data type. The present application can also be practiced in distributed computing environments. In the distributed computing environments, tasks are performed by remote processing devices connected through a communications
25 network. In a distributed computing environment, the program module can be located in both local and remote computer storage media including storage devices.

[0143] The implementations in the present specification are all described in a progressive way. For the same or similar parts of the implementations, refer to the implementations. Each implementation focuses on a difference from other
30 implementations. Particularly, a system implementation is basically similar to a method implementation, and therefore is described briefly. For related parts, refer to partial descriptions of the method implementation.

[0144] The previous descriptions are merely implementations of the present application, and are not intended to limit the present application. A person skilled in

the art can make various modifications and changes to the present application. Any modification, equivalent replacement, improvement, etc. made within the spirit and principle of the present application shall fall within the scope of the claims of the present application.

CLAIMS

What is claimed is:

1. An information presentation method, comprising:

5 sending, by client device, current scenario information of the client device to a server;

obtaining service information of a plurality of services returned by the server, wherein the service information is obtained by the server by matching the current scenario information; and

10 displaying the service information in a specified interface by using a visualization template;

wherein the service information comprises access entry information of an application or an application interface of an application.

15 2. The method according to claim 1, wherein the sending, by client device, current scenario information of the client device to a server specifically comprises the following:

sending, by the client device, the current scenario information of the client device to the server when the client device is started or a specified interface is refreshed.

20

3. The method according to claim 1, wherein the current scenario information comprises information reflecting an environment that the client device is located in or information reflecting an operation performed on a device that the client device is located in.

25

4. The method according to claim 3, wherein the information reflecting the environment that the client device is located in comprises global positioning system (GPS) positioning information of the device that the client device is located in, or information about Wireless Fidelity (WiFi) connected to the device that the client device is located in; and

30

wherein the service information is obtained by the server by matching the information reflecting the environment that the client device is located in against

predetermined geographical location information, and wherein the service information corresponds to successfully matched geographical location information.

5 5. The method according to claim 1, wherein before the displaying the service information in a specified interface by using a visualization template, the method further comprises the following:

 obtaining, by the client device, template indication information returned by the server; and

10 the displaying the service information in a specified interface by using a visualization template specifically comprises the following:

 displaying the service information in the specified interface by using a visualization template indicated by the template indication information.

15 6. The method according to claim 1, wherein the displaying the service information in a specified interface by using a visualization template specifically comprises the following:

 adding the service information to a same visualization template; and

 displaying a visualization template that comprises the service information in the specified interface.

20

7. The method according to claim 1, wherein when the service information comprises the access entry information of the application, after the displaying the service information in a specified interface by using a visualization template, the method further comprises the following:

25 in response to detecting a specified operation performed on the displayed visualization template that comprises the access entry information of the application, displaying, by the client device, an application interface of an application corresponding to the service information, or invoking another client, so that the another client displays the application interface of the application corresponding to
30 the service information.

8. The method according to claim 1, wherein the service information corresponds to scenario content information on the server that is successfully matched with the current scenario information; and

wherein after the displaying the service information in a specified interface by using a visualization template, the method further comprises the following:

in response to determining that the current scenario information of the client device is no longer successfully matched with the successfully matched scenario content information, deleting or hiding, by the client device, the displayed visualization template that comprises the service information.

9. The method according to any one of claims 1 to 8, wherein the visualization template comprises a card-style template.

10. An information presentation method, comprising:

obtaining, by a server, current scenario information of a client device;

obtaining service information of a plurality of services by matching the current scenario information; and

returning the service information to the client device, so that the client device displays the service information in a specified interface by using a visualization template;

wherein the service information comprises access entry information of an application and/or an application interface of an application.

11. The method according to claim 10, wherein the current scenario information comprises information reflecting an environment that the client device is located in or information reflecting an operation performed on a device that the client device is located in.

12. The method according to claim 11, wherein the obtaining service information of a plurality of services by matching the current scenario information specifically comprises the following:

matching the current scenario information against predetermined scenario content information, to determine successfully matched scenario content information; and

obtaining the service information of the plurality of services that corresponds to the successfully matched scenario content information.

13. The method according to claim 12, wherein the information reflecting the environment that the client device is located in comprises global positioning system (GPS) positioning information of the device that the client device is located in, or information about Wireless Fidelity (WiFi) connected to the device that the client device is located in; and
5 wherein the scenario content information is geographical location information.

14. The method according to claim 13, wherein before the obtaining service information of a plurality of services by matching the current scenario information,
10 the method further comprises the following:

obtaining, by using a predetermined interface, the following information sent by each predetermined service provider: service information of a service that can be provided by the service provider and geographical location information corresponding to the service information,

15 wherein the obtained geographical location information is used as scenario content information corresponding to the service information.

15. The method according to claim 10, wherein the method further comprises the following:

20 returning, by the server, template indication information to the client device, so that the client device displays the service information in the specified interface by using a visualization template indicated by the template indication information.

16. The method according to claim 12, wherein the obtaining the service information of the plurality of services that corresponds to the successfully matched scenario content information specifically comprises the following:

obtaining service information of at least some of all services corresponding to the successfully matched scenario content information; and

performing, based on a predetermined integration rule and/or filtering rule,
30 integration or filtering on the service information of the at least some services corresponding to the successfully matched scenario content information, to obtain service information of a plurality of services that are not repeated.

17. The method according to claim 16, wherein the performing integration or

filtering on the service information of the at least some services corresponding to the successfully matched scenario content information, to obtain service information of a plurality of services that are not repeated specifically comprises the following:

performing integration or filtering on the service information of the at least some
5 services corresponding to the successfully matched scenario content information, to obtain the service information of the plurality of services that are not repeated and template indication information; and

wherein the returning the service information to the client device specifically comprises the following:

10 returning the service information of the plurality of services that are not repeated and the template indication information to the client device.

18. The method according to claim 12, wherein after the returning the service information to the client device, the method further comprises the following:

15 detecting, by the server, the current scenario information of the client device; and
in response to determining that the detected current scenario information cannot successfully match the successfully matched scenario content information, sending corresponding indication information to the client device, so that the client device deletes or hides the displayed visualization template that comprises the service
20 information corresponding to the successfully matched scenario content information.

19. The method according to any one of claims 10 to 18, wherein the visualization template comprises a card-style template.

25 20. An information presentation apparatus, wherein the apparatus is located on a client device, and comprises the following:

a sending module, configured to send current scenario information of the client device to a server;

an acquisition module, configured to obtain service information of a plurality of
30 services returned by the server, wherein the service information is obtained by the server by matching the current scenario information; and

a display module, configured to display the service information in a specified interface by using a visualization template;

wherein the service information comprises access entry information of an

application or an application interface of an application.

21. The apparatus according to claim 20, wherein that a sending module sends current scenario information of the client device to a server specifically comprises the following:

the sending module sends the current scenario information of the client device to the server when the client device is started or a specified interface is refreshed.

22. The apparatus according to claim 20, wherein the current scenario information comprises information reflecting an environment that the client device is located in or information reflecting an operation performed on a device that the client device is located in.

23. The apparatus according to claim 22, wherein the information reflecting the environment that the client device is located in comprises global positioning system (GPS) positioning information of the device that the client device is located in, or information about Wireless Fidelity (WiFi) connected to the device that the client device is located in; and

wherein the service information is obtained by the server by matching the information reflecting the environment that the client device is located in against predetermined geographical location information, and wherein the service information corresponds to successfully matched geographical location information.

24. The apparatus according to claim 20, wherein before the display module displays the service information in the specified interface by using the visualization template, the acquisition module obtains template indication information returned by the server; and

wherein that a display module displays the service information in a specified interface by using a visualization template specifically comprises the following:

the display module displays the service information in the specified interface by using a visualization template indicated by the template indication information.

25. The apparatus according to claim 20, wherein that a display module displays the service information in a specified interface by using a visualization template

specifically comprises the following:

the display module adds the service information to a same visualization template, and displays a visualization template that comprises the service information in the specified interface.

5

26. The apparatus according to claim 20, wherein when the service information comprises the access entry information of the application, after the display module displays the service information in the specified interface by using the visualization template, when a specified operation performed on the displayed visualization
10 template that comprises the access entry information of the application is detected, the display module displays an application interface of an application corresponding to the service information, or invokes another client, so that the another client displays the application interface of the application corresponding to the service information.

15 27. The apparatus according to claim 20, wherein the service information corresponds to scenario content information on the server that is successfully matched with the current scenario information; and

wherein after the display module displays the service information in the specified interface by using the visualization template, when it is determined that the current
20 scenario information of the client device is no longer successfully matched with the successfully matched scenario content information, the display module deletes or hides the displayed visualization template that comprises the service information.

28. The apparatus according to any one of claims 20 to 27, wherein the
25 visualization template comprises a card-style template.

29. An information presentation apparatus, wherein the apparatus is located on a server, and comprises the following:

30 a first acquisition module, configured to obtain current scenario information of a client device;

a second acquisition module, configured to obtain service information of a plurality of services by matching the current scenario information; and

a returning module, configured to return the service information to the client device, so that the client device displays the service information in a specified

interface by using a visualization template; wherein

the service information comprises access entry information of an application or an application interface of an application.

5 30. The apparatus according to claim 29, wherein the current scenario information comprises information reflecting an environment that the client device is located in and/or information reflecting an operation performed on a device that the client device is located in.

10 31. The apparatus according to claim 30, wherein that a second acquisition module obtains service information of a plurality of services by matching the current scenario information specifically comprises the following:

the second acquisition module matches the current scenario information against predetermined scenario content information, to determine successfully matched
15 scenario content information; and obtains the service information of the plurality of services that corresponds to the successfully matched scenario content information.

32. The apparatus according to claim 31, wherein the information reflecting the environment that the client device is located in comprises global positioning system
20 (GPS) positioning information of the device that the client device is located in, or information about Wireless Fidelity (WiFi) connected to the device that the client device is located in; and

wherein the scenario content information is geographical location information.

25 33. The apparatus according to claim 32, wherein before obtaining the service information of the plurality of services by matching the current scenario information, the second acquisition module obtains, by using a predetermined interface, the following information sent by each predetermined service provider: service information of a service that can be provided by the service provider and geographical
30 location information corresponding to the service information,

wherein the obtained geographical location information is used as scenario content information corresponding to the service information.

34. The apparatus according to claim 29, wherein the returning module further

returns template indication information to the client device, so that the client device displays the service information in the specified interface by using a visualization template indicated by the template indication information.

5 35. The apparatus according to claim 31, wherein that the second acquisition module obtains the service information of the plurality of services that corresponds to the successfully matched scenario content information specifically comprises the following:

10 the second acquisition module obtains service information of at least some of all services corresponding to the successfully matched scenario content information; and performs, based on a predetermined integration rule or filtering rule, integration and/or filtering on the service information of the at least some services corresponding to the successfully matched scenario content information, to obtain service information of a plurality of services that are not repeated.

15

 36. The apparatus according to claim 35, wherein that the second acquisition module performs integration or filtering on the service information of the at least some services corresponding to the successfully matched scenario content information, to obtain service information of a plurality of services that are not repeated specifically comprises the following:

20 the second acquisition module performs integration or filtering on the service information of the at least some services corresponding to the successfully matched scenario content information, to obtain the service information of the plurality of services that are not repeated and template indication information; and

25 wherein that a returning module returns the service information to the client device specifically comprises the following:

 the returning module returns the service information of the plurality of services that are not repeated and the template indication information to the client device.

30

 37. The apparatus according to claim 31, wherein after returning the service information to the client device, the returning module detects the current scenario information of the client device; and in response to determining that the detected current scenario information cannot successfully match the successfully matched

scenario content information, sends corresponding indication information to the client device, so that the client device deletes or hides the displayed visualization template that comprises the service information corresponding to the successfully matched scenario content information.

5

38. The apparatus according to any one of claims 29 to 37, wherein the visualization template comprises a card-style template.