

METHOD, INFORMATION TERMINAL, PROGRAM, AND STORAGE MEDIUM

BACKGROUND

1. Technical Field

[0001] The present disclosure relates to a method for an information terminal, and the like.

2. Description of the Related Art

[0002] Japanese Unexamined Patent Application Publication No. 2004-310205 (hereinafter, for simplicity, referred to as PTL 1) discloses a mobile terminal for a personal meal management system capable of determining a meal menu taking into account a content of a meal in the past, depending on a predetermined purpose. The mobile terminal for the personal meal management system disclosed in PTL 1 acquires menu information from outside via communication means, selects a meal menu based on the acquired menu information, a meal history stored in storage means, a user status, and an eating rule, and presents the selected meal menu as a recommended menu.

[0003] Japanese Unexamined Patent Application Publication No. 2008-299821 (hereinafter, for simplicity, referred to as PTL 2) discloses an order reception apparatus for use in a restaurant, which is installed in the restaurant for inputting menu order information and the like to support a customer service operation. The order reception apparatus for use in a restaurant disclosed in PTL 2 includes means for displaying an order input screen on a display device on which it is allowed to input menu order information. On the order input screen, menu order information is input individually for each seat set at a table.

SUMMARY

[0004] A further improvement is required in the related technique described above.

[0005] In a first aspect, the present disclosure provides a method for controlling an information terminal that communicates, via a network, with a first server that manages allergy information related to a user corresponding to identification information identifying the user, the method including acquiring a restaurant ID and a seat ID indicating a seat of the user via a first operation screen displayed on a display of an information terminal of the user, acquiring, based on

the restaurant ID, menu information indicating one or more dishes provided by a restaurant corresponding to the restaurant ID from a second server related to the restaurant via the network, the menu information including information indicating one or more ingredients contained in each dish and an amount of each ingredient; transmitting the identification information stored in the information terminal to the first server, and acquiring, from the first server, allergy information related to the user based on the identification information, the allergy information including information indicating a level of an allergic reaction of the user to each ingredient; generating, based on the menu information and the allergy information, a personalized menu arranged for the user according to the allergy information, displaying the personalized menu on a second operation screen for accepting an order of a dish in the restaurant, the second operation screen being displayed on a display of the information terminal of the user, and transmitting to the second server, ordered-dish information and the seat ID, the ordered-dish information representing the dish selected from the personalized menu, wherein, in the generating of the personalized menu, when the level of the allergic reaction of an ingredient included in the menu information is equal to or larger than a criterion value, the ingredient is determined as an allergy ingredient that causes allergy, and the personalized menu includes one or more dishes, in each of which the allergy ingredient that causes allergy is reduced.

[0005a] In a second aspect, the present disclosure provides a method for controlling an information terminal that communicates, via a network, with a first server that manages allergy information related to a user corresponding to identification information identifying the user, the method comprising acquiring a restaurant ID and a seat ID indicating a seat of the user via a first operation screen displayed on a display of an information terminal of the user; acquiring, based on the restaurant ID, menu information indicating one or more dishes provided by a restaurant corresponding to the restaurant ID, from a second server related to the restaurant via the network, the menu information including information indicating one or more ingredients contained in each dish and an amount of each ingredient; transmitting the identification information stored in the information terminal to the first server, and acquiring, from the first server, allergy information related to the user based on the identification information, the allergy information including

information indicating a level of an allergic reaction of the user to each ingredient; generating, based on the menu information and the allergy information, a personalized menu arranged for the user according to the allergy information; displaying the personalized menu on a second operation screen for accepting an order of a dish in the restaurant, the second operation screen being displayed on the display of the information terminal of the user; and transmitting to the second server, ordered-dish information and the seat ID, the ordered-dish information representing the dish selected from the personalized menu, wherein, in the generating of the personalized menu, when the level of the allergic reaction of an ingredient included in the menu information is equal to or larger than a criterion value, the ingredient is determined as an allergy ingredient that causes allergy, and the personalized menu is generated by excluding an allergy dish included in the menu information, the allergy dish including the allergy ingredient that causes allergy.

[0005b] In a third aspect, the present disclosure refers to an information terminal that executes the method according to any one of the first and second aspects.

[0005c] In a fourth aspect, the present disclosure refers to a program for causing a computer of the information terminal to execute the method according to any one of the first and second aspects.

[0005d] In a fifth aspect, the present disclosure refers to a non-transitory computer-readable storage medium storing a program for causing a computer of the information terminal to execute the method according to any one of the first and second aspects.

[0006] A further improvement can be achieved by the above aspect.

[0007] It should be noted that general or specific embodiments may be implemented as a system, a method, an integrated circuit, a computer program, a storage medium, or any selective combination thereof.

[0008] Additional benefits and advantages of the disclosed embodiments will become apparent from the specification and drawings. The benefits and/or advantages may be individually obtained by the various embodiments and features of the specification and drawings, which need not all be provided in order to obtain one or more of such benefits and/or advantages.

BRIEF DESCRIPTION OF THE DRAWINGS

[0009] Fig. 1 is a diagram showing a configuration of a common food ordering system;

Fig. 2 is a diagram showing an example of an overall view of an information infrastructure of an information processing system according to an embodiment;

Fig. 3 is a diagram showing, in further detail, the overall view of the information processing system according to the present embodiment;

Fig. 4 is a diagram showing an example of a specific configuration of an information processing system according to an embodiment;

Fig. 5 is a diagram showing an example of a layout of a store of a restaurant company;

Fig. 6A is a diagram showing an example of a manner in which a QR code

WHAT IS CLAIMED IS:

1. A method for controlling an information terminal that communicates, via a network, with a first server that manages allergy information related to a user corresponding to identification information identifying the user, the method comprising:

acquiring a restaurant ID and a seat ID indicating a seat of the user via a first operation screen displayed on a display of an information terminal of the user;

acquiring, based on the restaurant ID, menu information indicating one or more dishes provided by a restaurant corresponding to the restaurant ID, from a second server related to the restaurant via the network, the menu information including information indicating one or more ingredients contained in each dish and an amount of each ingredient;

transmitting the identification information stored in the information terminal to the first server, and acquiring, from the first server, allergy information related to the user based on the identification information, the allergy information including information indicating a level of an allergic reaction of the user to each ingredient;

generating, based on the menu information and the allergy information, a personalized menu arranged for the user according to the allergy information;

displaying the personalized menu on a second operation screen for accepting an order of a dish in the restaurant, the second operation screen being displayed on a display of the information terminal of the user; and

transmitting to the second server, ordered-dish information and the seat ID, the ordered-dish information representing the dish selected from the personalized menu,

wherein, in the generating of the personalized menu, when the level of the allergic reaction of an ingredient included in the menu information is equal to or larger than a criterion value, the ingredient is determined as an allergy ingredient that causes allergy, and

the personalized menu includes one or more dishes, in each of which the allergy ingredient that causes allergy is reduced.

2. The method according to Claim 1, wherein the reducing of the allergy

ingredient includes removing the allergy ingredient such that the amount of the ingredient is zero.

3. A method for controlling an information terminal that communicates, via a network, with a first server that manages allergy information related to a user corresponding to identification information identifying the user, the method comprising:

acquiring a restaurant ID and a seat ID indicating a seat of the user via a first operation screen displayed on a display of an information terminal of the user;

acquiring, based on the restaurant ID, menu information indicating one or more dishes provided by a restaurant corresponding to the restaurant ID, from a second server related to the restaurant via the network, the menu information including information indicating one or more ingredients contained in each dish and an amount of each ingredient;

transmitting the identification information stored in the information terminal to the first server, and acquiring, from the first server, allergy information related to the user based on the identification information, the allergy information including information indicating a level of an allergic reaction of the user to each ingredient;

generating, based on the menu information and the allergy information, a personalized menu arranged for the user according to the allergy information;

displaying the personalized menu on a second operation screen for accepting an order of a dish in the restaurant, the second operation screen being displayed on the display of the information terminal of the user; and

transmitting to the second server, ordered-dish information and the seat ID, the ordered-dish information representing the dish selected from the personalized menu,

wherein, in the generating of the personalized menu, when the level of the allergic reaction of an ingredient included in the menu information is equal to or larger than a criterion value, the ingredient is determined as an allergy ingredient that causes allergy, and

the personalized menu is generated by excluding an allergy dish included in the menu information, the allergy dish including the allergy ingredient that causes allergy.

4. The method according to Claim 1 or 3, wherein the identification information includes a user ID.

5. The method according to Claim 1 or 3, wherein the first server is different from the second server.

6. The method according to Claim 1 or 3, wherein the restaurant ID and the seat ID are acquired by reading, via the first operation screen, an identification code prepared at a location corresponding to a seat at a table where the user is seated.

7. The method according to Claim 6, wherein the identification code includes a QR code.

8. The method according to any one of Claims 1 to 7, wherein the first server distributedly manages at least one of biological information including the allergy information, item purchase history information, preference information including dish order history information of the user, or the behavior history information including the location information of the user.

9. An information terminal that executes the method according to any one of Claims 1 to 8.

10. A program for causing a computer of the information terminal to execute the method according to any one of Claims 1 to 8.

11. The program according to Claim 10, wherein the identification information identifying the user includes a serial code assigned to the program for each information terminal.

12. A non-transitory computer-readable storage medium storing a program for causing a computer of the information terminal to execute the method

according to any one of Claims 1 to 8.