Citation List

Patent Literature

[0004]

Patent Literature 1: JP 2005-122491A

Summary of Invention

Technical Problem

[0005]

In the past, in order to change a setting for deciding a program to be executed when a device in which an IC chip is embedded is held over a reader-writer, it was necessary to change definitions thereof on the reader-writer side. Changing of the definitions on the reader-writer side needed to be performed manually in the past, or via a network when the reader-writer was connected to the network. When the change was performed manually, a work cost required from the reader-writer side for the change of the definitions increased. In addition, when it was performed via a network, an introduction cost of the reader-writer corresponding to network connection increased.

[0006]

In addition, when an application that reads an IC tag in near field communication and thereby operates according to the read result was to be developed in the past, it was necessary to install a mechanism that accesses the IC tag in each of applications. In addition, as data stored in the IC tag was optimized for each service, it was difficult to use the data in other applications. Patent Literature 1 discloses an application program execution system in which flexible construction and change are possible; however, in the system disclosed in Patent Literature 1, linkage with applications within a device is not possible.

[0007]

Embodiments of the present invention provide a novel and improved terminal device, a server device, and an information processing system that enable execution of an application according to a result of reading an IC tag in near field communication while suppressing an operation cost.

Solution to Problem

[0008]

According to a first aspect of the present invention, there is provided a terminal device including an activation control unit configured to transmit first information that includes information read through near field communication performed between a terminal

device and an IC tag to a server device, to acquire second information transmitted from the server device according to the first information, and to control activation of an application of the terminal device itself based on the acquired second information, a display unit configured to display an instruction for a user of the terminal device to hold the terminal device over the IC tag, wherein the activation control unit causes information regarding attributes of the application to be activated in the terminal device itself to be included in the first information as the information based on the operation of the user, and transmits the information to the server device.

[0009]

According to a second aspect of the present invention, there is provided a server device including an application managing unit configured to preliminarily retain information of an application to be activated in a terminal device, and an application activation instructing unit configured to acquire the information of the application to be activated in the terminal device from the application managing unit according to information that includes information read by the terminal device through near field communication performed between a terminal device and an IC tag and that has been transmitted from the terminal device and to reply to the terminal device, a display unit configured to display an instruction for a user of the terminal device to hold the terminal device over the IC tag, wherein an activation control unit causes information regarding attributes of the application to be activated in the terminal device itself to be included as the information based on the operation of the user, and transmits the information to the server device.

[0010]

According to a third aspect of the present invention, there is provided an information processing system including a terminal device, and a server device. The terminal device includes an activation control unit configured to transmit first information that includes information read through near field communication performed between a terminal device and an IC tag to the server device, to acquire second information transmitted from the server device according to the first information, and to control activation of an application of the terminal device based on the acquired second information, a display unit configured to display an instruction for a user of the terminal device to hold the terminal device over the IC tag. The server device includes an application managing unit configured to preliminarily retain information of an application to be activated in the terminal device, and an application activation instructing unit configured to acquire the information of the application to be activated in the terminal device from the application managing unit according to the first

information transmitted from the terminal device and to reply to the terminal device, wherein the activation control unit causes information regarding attributes of the application to be activated in the terminal device itself to be included in the first information as the information based on the operation of the user, and transmits the information to the server device.

Advantageous Effects of Invention

[0011]

According to embodiments of the present invention described above, it is possible to provide a novel and improved terminal device, a server device, and an information processing system that enable execution of an application according to a result of reading an IC tag in near field communication while suppressing an operation cost.

Brief Description of Drawings

[0012]

[FIG. 1] FIG. 1 is an illustrative diagram showing a configuration example of an information processing system 1 according to an embodiment of the present disclosure.

[FIG. 2] FIG. 2 is an illustrative diagram showing a functional configuration example of a system server 10 according to an embodiment of the present disclosure.

[FIG. 3] FIG. 3 is an illustrative diagram showing a functional configuration example of a terminal device 100 according to an embodiment of the present disclosure.

[FIG. 4] FIG. 4 is a flowchart showing an operation example of the information processing system 1 according to an embodiment of the present disclosure.

[FIG. 5] FIG. 5 is an illustrative diagram showing examples of GUIs of applications to be executed in the terminal device 100.

[FIG. 6] FIG. 6 is an illustrative diagram showing examples of GUIs of applications to be executed in the terminal device 100.

[FIG. 7] FIG. 7 is an illustrative diagram showing examples of GUIs of applications to be executed in the terminal device 100.

[FIG. 8] FIG. 8 is an illustrative diagram showing examples of GUIs of applications

CLAIMS

1. A terminal device comprising:

an activation control unit configured to transmit first information that includes information read through near field communication performed between the terminal device and an IC tag to a server device, to acquire second information transmitted from the server device according to the first information, and to control activation of an application of the terminal device itself based on the acquired second information,

a display unit configured to display an instruction for a user of the terminal device to hold the terminal device over the IC tag,

wherein the activation control unit causes information regarding attributes of the application to be activated in the terminal device itself to be included in the first information as the information based on the operation of the user, and transmits the information to the server device.

2. The terminal device according to claim 1, wherein the activation control unit retains authentication information used in reading of information through the near field communication.

3. The terminal device according to claim 2, wherein, at the time of reading the information through the near field communication, the activation control unit deletes the used authentication information.

4. The terminal device according to claim 2, wherein the activation control unit acquires the authentication information from the server device.

5. The terminal device according to claim 1, wherein the activation control unit causes information based on operation of a user with respect to the terminal device itself to be included in the first information and then transmits the information to the server device.

6. The terminal device according to claim 1, wherein the activation control unit causes information of a current date and time to be included in the first information as the information regarding the attributes of the application to be activated and transmits the information to the server device.

7. The terminal device according to claim 1, wherein the activation control unit causes position information of the terminal device itself to be included in the first information as the information regarding the attributes of the application to be activated and transmits the information to the server device.

8. The terminal device according to claim 1, wherein the activation control unit transmits the first information in which the read information includes position information of the terminal device itself to the server device.

9. The terminal device according to claim 1, further comprising:

a near field communication unit configured to execute the near field communication.

10. A server device comprising:

an application managing unit configured to preliminarily retain information of an application to be activated in a terminal device; and

an application activation instructing unit configured to acquire the information of the application to be activated in the terminal device from the application managing unit according to information that includes information read by the terminal device through near field communication performed between a terminal device and an IC tag and that has been transmitted from the terminal device and to reply to the terminal device and to instruct a display unit on the terminal device to display an instruction for a user of the terminal device to hold the terminal device over the IC tag,

wherein an activation control unit causes information regarding attributes of the application to be activated in the terminal device itself to be included as the information based on the operation of the user, and transmits the information to the server device.

11. The server device according to claim 10, wherein the application activation instructing unit acquires the information of the application from the application managing unit and replies to the terminal device based on the information transmitted from the terminal device.

12. The server device according to claim 10, wherein the application managing unit enables change of the information of the application based on transmission of information

from the terminal device having specific authority.

13. An information processing system comprising:

a terminal device; and

a server device,

wherein the terminal device includes:

an activation control unit configured to transmit first information that includes information read through near field communication performed between a terminal device and an IC tag to the server device, to acquire second information transmitted from the server device according to the first information, and to control activation of an application of the terminal device based on the acquired second information, and

a display unit configured to display an instruction for a user of the terminal device to hold the terminal device over the IC tag,

wherein the server device includes:

an application managing unit configured to preliminarily retain information of an application to be activated in the terminal device ; and

an application activation instructing unit configured to acquire the information of the application to be activated in the terminal device from the application managing unit according to the first information transmitted from the terminal device and to reply to the terminal device,

wherein the activation control unit causes information regarding attributes of the application to be activated in the terminal device itself to be included in the first information as the information based on the operation of the user, and transmits the information to the server device.