

CLAIMS

What is claimed is:

1. A method performed by a device for handling a multi-tenant request, comprising:

receiving a request to access an application from a user, wherein the request comprises a user identifier and request data of the user;

determining tenant information corresponding to the user identifier based on a mapping relationship between the user and a tenant;

determining a type of the application based on the request data;

extracting a first identifier of the application from the request data based on the type, comprising: determining an extraction method of a field value of an identification field corresponding to the type of the application based on a mapping relationship between an application type and the extraction method of the field value of the identification field, extracting the field value of the identification field from the request data based on the extraction method, and using the field value as the first identifier;

modifying the first identifier to a second identifier based on the tenant information; and

determining a new request based on the second identifier and sending the new request.

2. The method according to claim 1, further comprising:

receiving a response message for the new request, wherein the response message comprises the second identifier;

modifying the second identifier to the first identifier based on the tenant information;

determining a new response message based on the first identifier; and

returning the new response message to the user.

3. The method according to claim 1 or 2, wherein extracting the first identifier of the application from the request data based on the type further comprises:

determining the identification field corresponding to the type of the application based on a mapping relationship between an application type and the

identification field, wherein the mapping relationship between an application type and the identification field is stored in a two-dimensional relationship table or stored in a storage system of a key value (KV) structure; and

extracting the field value of the identification field from the request data based on the identification field.

4. The method according to claim 1, wherein the mapping relationship between an application type and the extraction method of the field value of the identification field is stored in a two-dimensional relationship table or stored in a storage system of a key value (KV) structure.

5. The method according to claim 2, wherein the modifying the first identifier to a second identifier based on the tenant information comprises:

appending the tenant information to the first identifier to obtain the second identifier; and

correspondingly, the modifying the second identifier to the first identifier based on the tenant information comprises:

removing the tenant information from the second identifier to obtain the first identifier.

6. A device for handling a multi-tenant request, comprising:

a receiving unit, configured to receive a request to access an application from a user, wherein the request comprises a user identifier and request data of the user;

a determining unit, configured to determine tenant information corresponding to the user identifier based on a mapping relationship between a user and a tenant, wherein the determining unit is further configured to determine a type of the application based on the request data;

an extraction unit, configured to extract a first identifier of the application from the request data based on the type determined by the determining unit, wherein the extraction unit is further configured to: determine an extraction method of a field value of an identification field corresponding to the type of the application based on a mapping relationship between an application type and the extraction method of the field value of the identification field, extract the field value of the identification field from the request data based on the extraction method, and use the field value as the

first identifier;

a modification unit, configured to modify the first identifier extracted by the extraction unit to a second identifier based on the tenant information determined by the determining unit, wherein

the determining unit is further configured to determine a new request based on the second identifier that the modification unit modifies the first identifier to; and

a sending unit, configured to send the new request.

7. The device according to claim 6, wherein

the receiving unit is further configured to receive a response message for the new request, wherein the response message comprises the second identifier;

the modification unit is further configured to modify the second identifier to the first identifier based on the tenant information;

the determining unit is further configured to determine a new response message based on the first identifier that the modification unit modifies the second identifier to; and

the sending unit is further configured to return the new response message determined by the determining unit to the user.

8. The device according to claim 6 or 7, wherein the extraction unit is further configured to:

determine the identification field corresponding to the type of the application based on a mapping relationship between an application type and the identification field, wherein the mapping relationship between an application type and the identification field is stored in a two-dimensional relationship table or stored in a storage system of a key value (KV) structure; and

extract the field value of the identification field from the request data based on the identification field.

9. The device according to claim 6, wherein

the mapping relationship between an application type and the extraction method of the field value of the identification field is stored in a two-dimensional relationship table or stored in a storage system of a key value (KV) structure.

10. The device according to claim 7, wherein the modification unit is specifically

configured to:

- append the tenant information to the first identifier to obtain the second identifier; and

- correspondingly,

- remove the tenant information from the second identifier to obtain the first identifier.