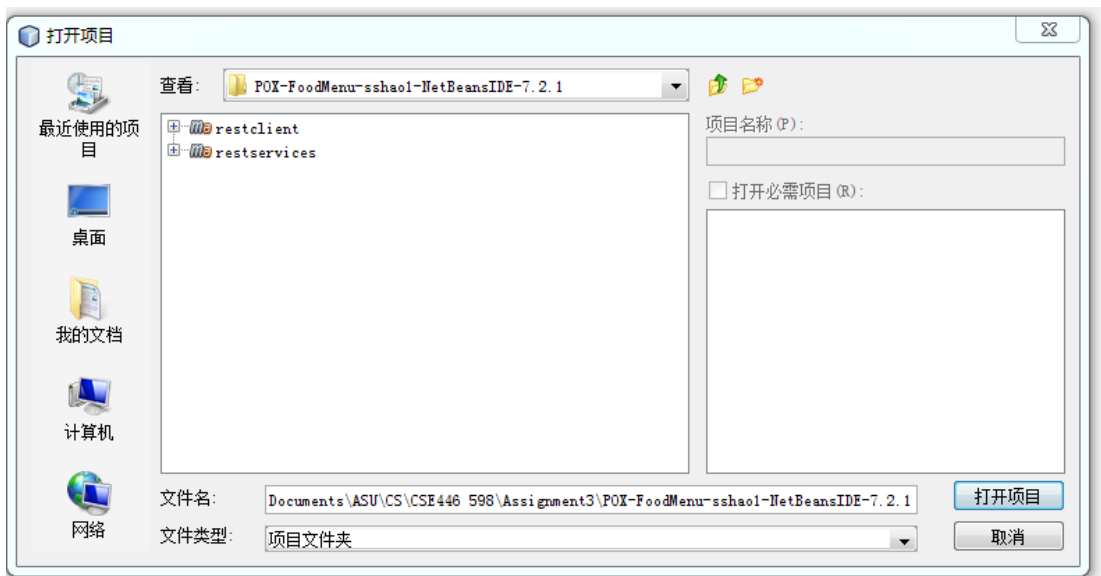


CSE446/598 Assignment3

Readme

Shihuan Shao

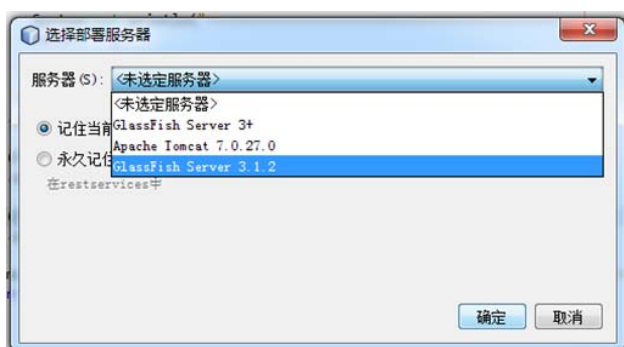
1. Download the zipped package POX-FoodMenu-sshao1-NetBeansIDE-7.2.1 and unzip. Copy the XML file FoodItemData.xml inside the folder to C:\, since the path for the server to access this file is C:\FoodItemData.xml.
2. Open NetBeans IDE 7.2.1. Click File -> Open Project. Go to the folder, and open the project restservices and restclient.



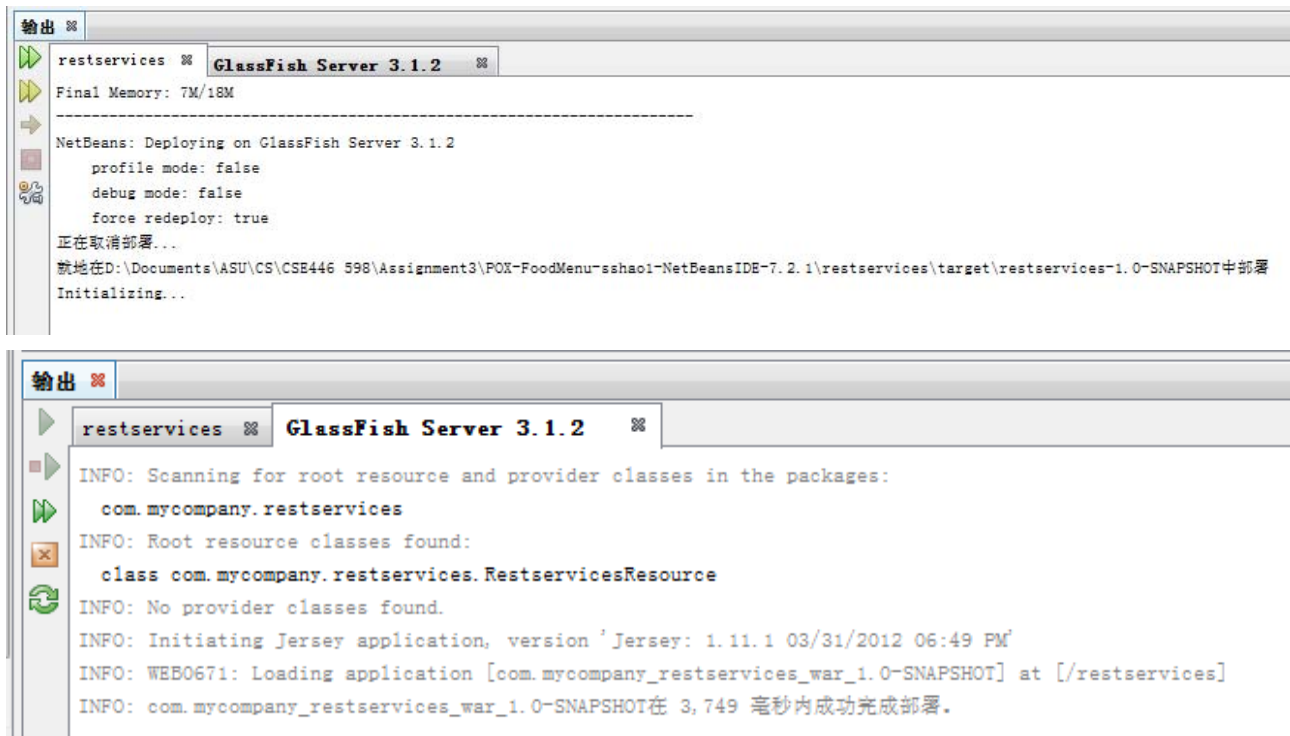
3. Open the server file called RestservicesResource.java in restservices project. Run the program by clicking the green arrow button showed in the red frame.



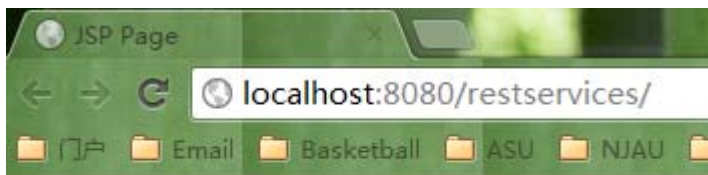
The user might be asked to choose a server for deployment. Just select GlassFish Server 3.1.2 and press Confirm.



4. The output panel will be open and show following contents:



A JSP page is also automatically opened and show "Hello World!":



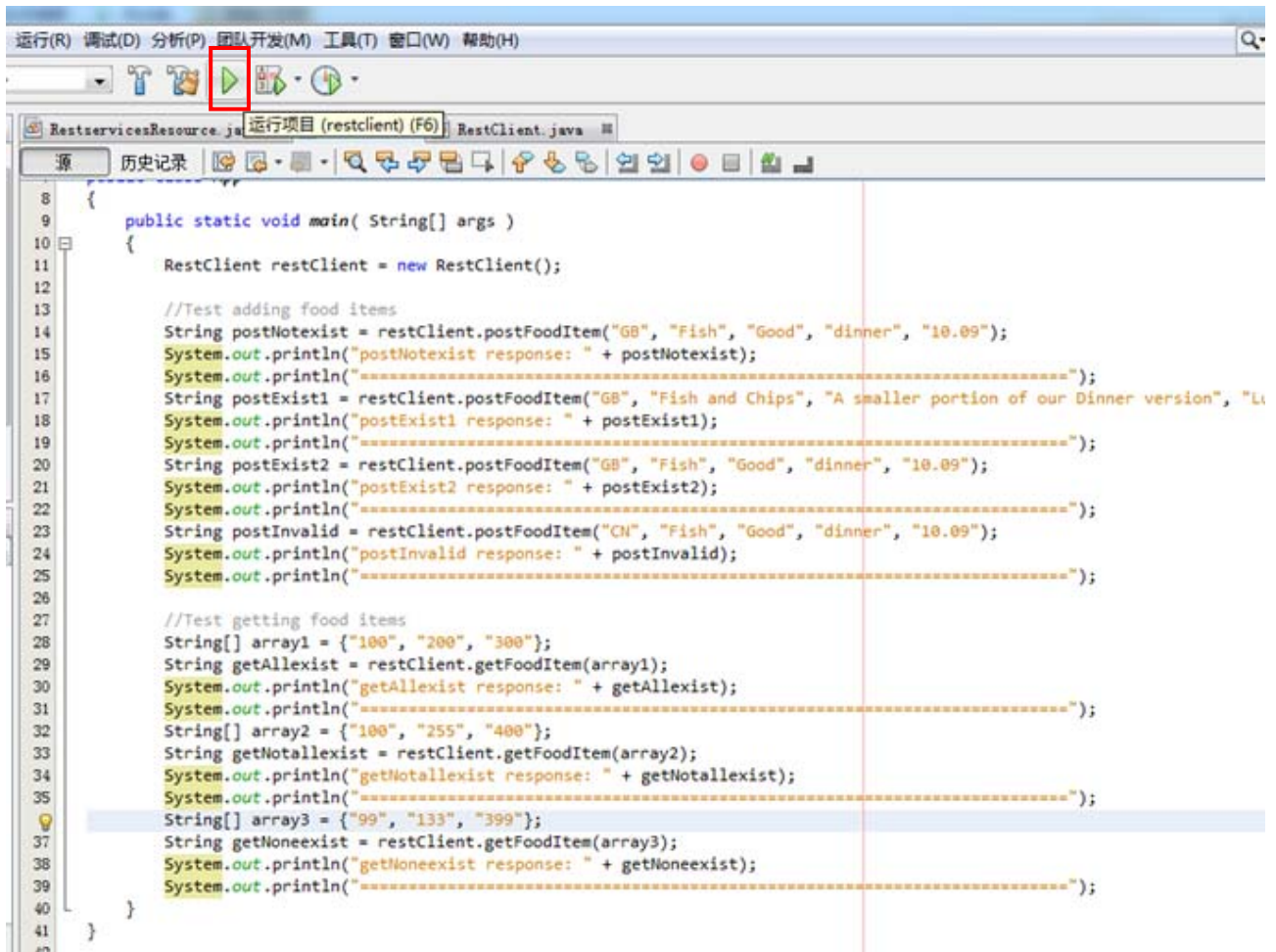
Hello World!

Now the service is deployed on GlassFish Server 3.1.2.

5. Open the driver file App.java and client file RestClient.java in the restclient project.



6. Choose the App.java and run it by clicking the green arrow button.



As you can see in the above figure, the App calls the functions `postFoodItem()` and `getFoodItem()` in `RestClient` class to add fooditems to the server and also retrieve fooditems from the server, and also print the response message from the server.

The test cases I used are listed below:

Test case 1: try to add a food item that does not exist in the list.

Test case 2: try to add a food item that does exist in the list.

Test case 3: try to add the food item that is added in the Test case 1.

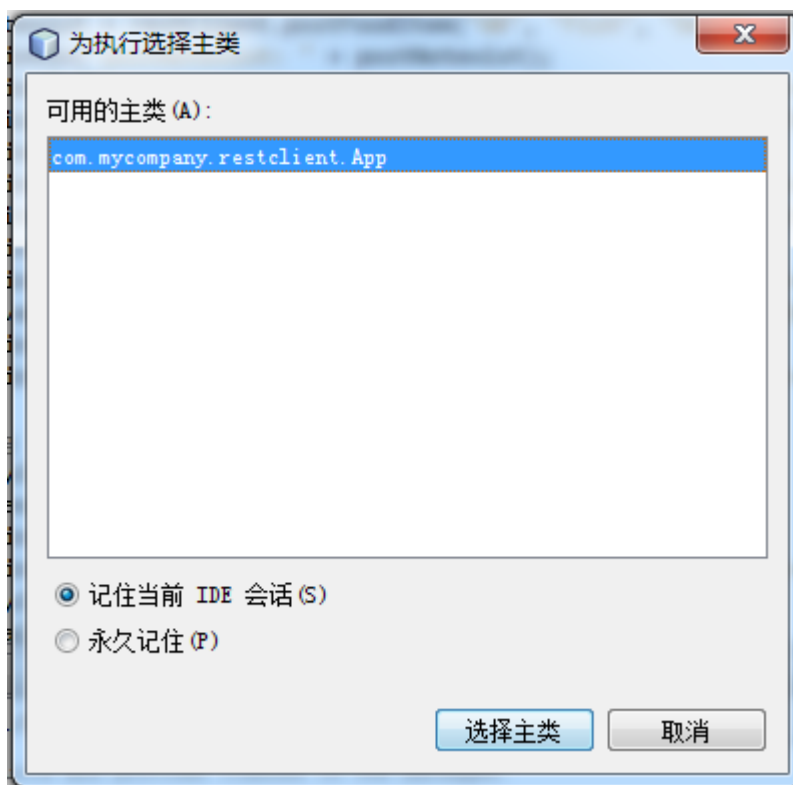
Test case 4: try to add an illegal food item. In my program, one type of illegal food items is the one whose "country" attribute is not "GB", "US" or "IN".

Test case 5: try to retrieve three food items which all exist in list with there ids.

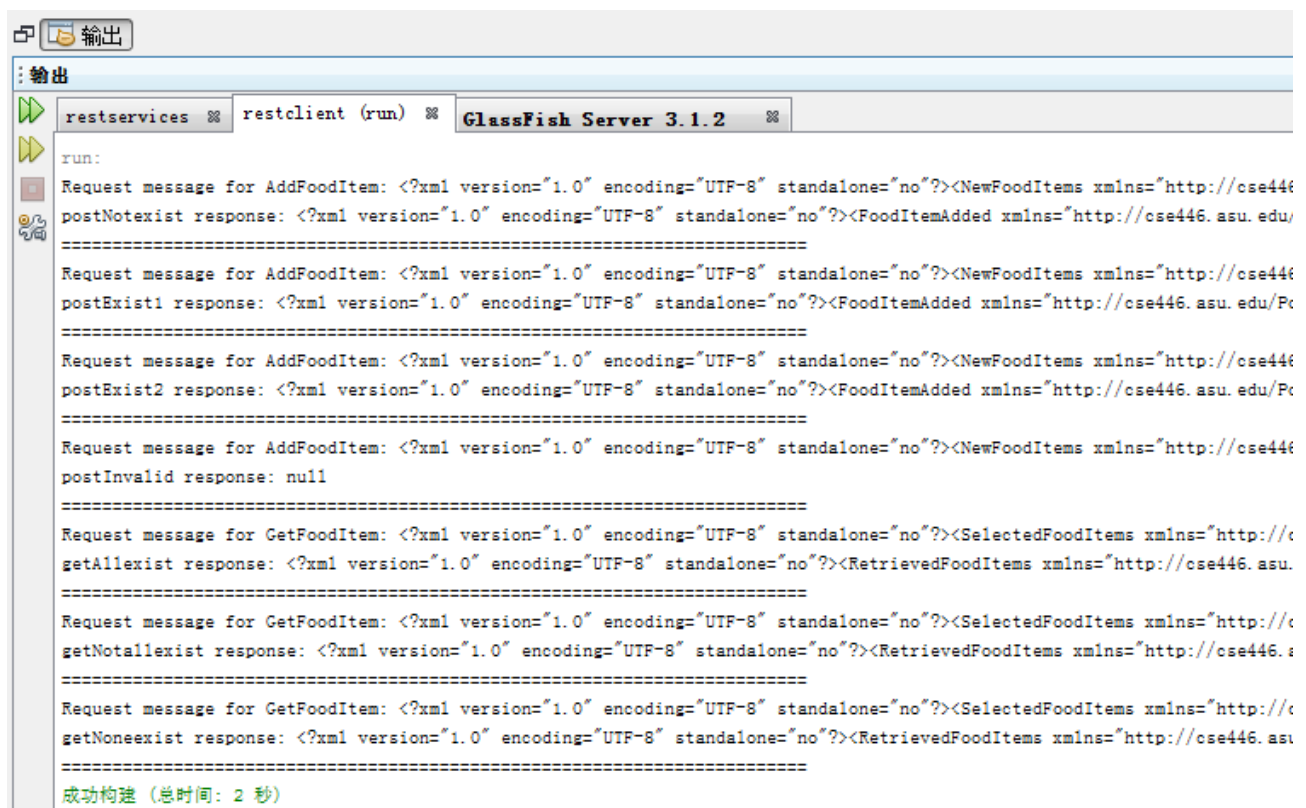
Test case 6: try to retrieve three food items, one of which does exist and the rest two do not exist in list.

Test case 7: try to retrieve one food item which does not exist in the list.

7. The user might be asked to choose the main class to run, just choose the App and click confirm.



8. In the output panel of restclient, you can see the both the request and response messages in XML format.



The response for Test case 1 shows a new id allocated for the new food item.

```

assignment"><FoodItem country="GB"><name>Fish</name><description>Good</description></FoodItem>
"><FoodItemId>123</FoodItemId></FoodItemAdded>

```

The response for Test case 2 and 3 show the ids of the existed food item.

```
assignment"><FoodItem country:
<FoodItemId>104</FoodItemId>

assignment"><FoodItem country:
<FoodItemId>123</FoodItemId>
```

The response for Test case 4 shows null since that is an illegal food item.

```
Request message for AddFoodIt
postInvalid response: null
```

The response for Test case 5 shows the retrieved food items with their country, id, name, description, category and price.

```
><FoodItem country="GB"><id>100</id><name>Steak and Kidney Pie</name><description>Tender cubes of steak,

<FoodItem country="US"><id>200</id><name>Glazed Doughnut</name><description>Deep fried pastry covered in sugar glaze.

</FoodItem><FoodItem country="IN"><id>300</id><name>Lamb Vindaloo</name><description>Spicy curry from southern India. Served wit
```

The response for Test case 6 shows corresponding information for different request items according to their existence.

```
><FoodItem country="GB"><id>100</id><name>Steak and Kidney Pie</name><description>Tender cubes of steak,

<InvalidFoodItem><FoodItemId>255</FoodItemId></InvalidFoodItem><InvalidFoodItem>

<InvalidFoodItem><FoodItemId>400</FoodItemId></InvalidFoodItem></RetrievedFoodItems>
```

The response for Test case 7 shows invalid information for all the three non-existent items.

```
<InvalidFoodItem><FoodItemId>99</FoodItemId></InvalidFoodItem>

><InvalidFoodItem><FoodItemId>133</FoodItemId></InvalidFoodItem>

<InvalidFoodItem><FoodItemId>399</FoodItemId></InvalidFoodItem><
```

9. Change to the GlassFish Server 3.1.2 output panel, the user can see the code and interpretation of every request.

```
输出 %
restservices % GlassFish Server 3.1.2 % restclient (run) %
class com.mycompany.restservices.RestservicesResource
INFO: No provider classes found.
INFO: Initiating Jersey application, version 'Jersey: 1.11.1 03/31/2012 06:49 PM'
INFO: WEB0671: Loading application [com.mycompany_restservices_war_1.0-SNAPSHOT] at [/restservices]
INFO: com.mycompany_restservices_war_1.0-SNAPSHOT在 3,273 毫秒内成功完成部署。
INFO: Complete read xml
INFO: POST 200: Food Item Added
INFO: =====
INFO: POST 409: Food Item already in the Food List
INFO: =====
INFO: POST 409: Food Item already in the Food List
INFO: =====
INFO: POST 400: Invalid or incorrect input message
INFO: =====
INFO: GET 200: All Food Item Retrieved
INFO: =====
INFO: GET 404: Invalid or incorrect input message
INFO: =====
INFO: GET 404: Invalid or incorrect input message
INFO: =====
```

Test case 1: Food item is added. Response code 200.

Test case 2 and 3: Food item is existed. Response code 409.

Test case 4: Food item is invalid. Response code 400.

Test case 5: All the food items can be retrieved. Response code 200.

Test case 6: Two of the three food items cannot be retrieved. Response code 404.

Test case 7: All of the food items cannot be retrieved. Response code 404.