TMA352 EMA Question 1

c. The HTML is as follows:

<?xml version='1.0' encoding='UTF-8' ?>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">

<head id="j\_idt2">

<title>Orders after post List</title>

<link rel="stylesheet" type="text/css" href="resources/css/theme.css" />

</head>

<body>

<h1>Create a new order or add items to order</h1>

<form id="j\_idt6" name="j\_idt6" method="post" action="/EMAQ1/orderForm.xhtml" enctype="application/x-www-form-urlencoded">

<input type="hidden" name="j\_idt6" value="j\_idt6" />

<fieldset>

<legend>Start a new order</legend>

<label>Enter Client Id: </label>

<input type="text" name="j\_idt6:j\_idt9" />

<input type="submit" name="j\_idt6:j\_idt10" value="Submit" />

</fieldset>

<input type="hidden" name="javax.faces.ViewState" id="j\_id1:javax.faces.ViewState:0" value="4912423995718069105:-1728512701388041415"

autocomplete="off" />

</form>

<form id="j\_idt12" name="j\_idt12" method="post" action="/EMAQ1/orderForm.xhtml" enctype="application/x-www-form-urlencoded">

<input type="hidden" name="j\_idt12" value="j\_idt12" />

<fieldset>

<legend>Add items to an existing order</legend>

<label>Enter Order Id: </label>

<input type="text" name="j\_idt12:j\_idt15" />

<label>Enter Widget Id: </label>

<input type="text" name="j\_idt12:j\_idt17" />

<label>Enter No. of widgets: </label>

<input type="text" name="j\_idt12:j\_idt19" />

<label>Enter price per unit(pence): </label>

<input type="text" name="j\_idt12:j\_idt21" />

<input type="submit" name="j\_idt12:j\_idt22" value="Submit" />

</fieldset>

<input type="hidden" name="javax.faces.ViewState" id="j\_id1:javax.faces.ViewState:1" value="4912423995718069105:-1728512701388041415"

autocomplete="off" />

</form>

d.

i. The code for the function is as follows:

public String orderPost(String oucu, String password)  
 {  
 Orders oclient = new Orders();  
 String response = oclient.post\_application\_x\_www\_form\_urlencoded( String.class, oucu, password, clientId, latitude, longitude);  
 oclient.close();  
 return response;  
 }

ii. The returned JSON response is:

{

"status": "success",

"data": [

{

"id": "42933",

"client\_id": "461",

"date": "2018-05-07 20:57:23",

"latitude": "0.00000000",

"longitude": "0.00000000"

}

]

}

e.

i. The code for the function is as follows:

public String orderItemsPost(String oucu, String password)  
 {  
 OrderItems oiclient = new OrderItems();  
 return oiclient.post\_application\_x\_www\_form\_urlencoded(String.class, oucu, password, orderId, widgetId, number, pence);

}

ii. The returned JSON response is:

{

"status": "success",

"data": [

{

"id": "36516",

"order\_id": "42933",

"widget\_id": "8",

"number": "20",

"pence\_price": "10"

}

]

}

f.

i. The code for the orderItemsGet() method is as follows:

public String orderItemsGet(String oucu, String password)  
 {  
 OrderItems oiclient = new OrderItems();  
 String response = iclient.get\_application\_json(String.class, oucu, password);  
 JsonObject jo = Utilities.getAsJsonObject(response);  
 String status = jo.getString("status");  
 String result;  
 if (Utilities.statusOkay(status))  
 {  
 JsonArray data = jo.getJsonArray("data");  
 System.out.println("Data was " + jo.getJsonArray("data"));  
 result = Utilities.prettyOrderItems(data);  
 }

else

{  
 System.out.println("Message was " + jo.getString("message"));  
 result = jo.getString("message");  
 }  
 oiclient.close();  
 return result;  
 }

ii. The code for the prettyOrderItems() is as follows:

public static String prettyOrderItems(JsonArray orderItems)

{

StringBuilder temp = new StringBuilder("<table>");

String header = "<tr><th>%s</th><th>%s</th><th>%s</th><th>%s</th><th>%s</th></tr>";  
 String row = "<tr><td>%s</td><td>%s</td><td>%s</td><td>%s</td><td>%s</td></tr>";

temp.append(String.format(header, "order items id", "order id", "widget id", "number of widgets", "price(pence)"));

System.out.println(temp.toString());

for (int i = 0; i < orderItems.size(); i++)  
 {  
 JsonObject jo = (JsonObject) orderItems.get(i);  
 System.out.println("keys " + jo.keySet());  
 String id = jo.getString("id");  
 String order\_id = jo.getString("order\_id");  
 String widget\_id = jo.getString("widget\_id");  
 String number = jo.getString("number");  
 String price = jo.getString("pence\_price");

temp.append(String.format(row, id, order\_id, widget\_id, number, price));

System.out.println(String.format(row, id, order\_id, widget\_id, number, price));  
 }  
 temp.append("</table>");  
 return temp.toString();  
}

The ‘View Orders’ page looks as follows:

