**RESTFul ASSIGNMENT Day\_3**

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**1. In the Question-2 of Day 2, If user is available, send a success message to the user otherwise throw a User Defined Exception. Handle the exception using Exception Mapper.**

package com.rest.assignment03;  
 import com.rest.entity.LoanDetails;  
 import com.rest.entity.LoanDetailsDAO;  
 import javax.ws.rs.\*;  
 import javax.ws.rs.core.MediaType;  
 import javax.ws.rs.core.Response;  
 import java.util.HashMap;  
@Path("/Day3Q1")  
public class Question1 {  
 HashMap<Integer, String> hashMap = new HashMap<>();  
 public void insertCredentials(){  
 hashMap.put(1, "HArshit");  
 hashMap.put(2, "Aman");  
 }  
 @GET  
 @Path("/read")  
 @Produces(MediaType.TEXT\_PLAIN)  
 public String getMessage(  
 @QueryParam("ID") int customerID,  
 @QueryParam("Pass") String password  
 ){  
 insertCredentials();  
 try {  
 if (!hashMap.get(customerID).equals(password))  
 throw new CustomException();  
 } catch(NullPointerException | CustomException e) {  
 return e.getMessage() + " : Not Found";  
 }  
 return "Success.";  
 }  
}

package com.rest.assignment03;  
 import javax.ws.rs.WebApplicationException;  
 import javax.ws.rs.core.Response;  
public class CustomException extends WebApplicationException {  
 public CustomException(){  
 super(Response.status(420).build());  
 }  
}

**2. Till now we were using Postman API to test our Rest service. Create a console-based client application to perform the operations mentioned in Question-3 of day 2.**

package com.rest.assignment03;  
 import java.io.BufferedReader;  
 import java.io.IOException;  
 import java.io.InputStreamReader;  
 import java.net.HttpURLConnection;  
 import java.net.URL;  
 import java.util.Scanner;  
class getAll{  
 public void getByCustomerId() throws IOException {  
 Scanner sc = new Scanner(System.*in*);  
 System.*out*.println("Enter Customer ID : ");  
 StringBuilder result = new StringBuilder();  
 String customerId = sc.next();  
 URL url = new  
 URL("http://localhost:8080/WebServices/rest/Day2Q3/customers/" + customerId);  
 HttpURLConnection conn = (HttpURLConnection) url.openConnection();  
 conn.setRequestMethod("GET");  
 try (BufferedReader reader = new BufferedReader(  
 new InputStreamReader(conn.getInputStream()))) {  
 for (String line; (line = reader.readLine()) != null; ) {  
 result.append(line);  
 }  
 }  
 System.*out*.println(result.toString());  
 }  
 public void getAll() throws IOException{  
 StringBuilder result = new StringBuilder();  
 URL url = new  
 URL("http://localhost:8080/WebServices/rest/Day2Q3/customers");  
 HttpURLConnection conn = (HttpURLConnection) url.openConnection();  
 conn.setRequestMethod("GET");  
 try (BufferedReader reader = new BufferedReader(  
 new InputStreamReader(conn.getInputStream()))) {  
 for (String line; (line = reader.readLine()) != null; ) {  
 result.append(line);  
 }  
 }  
 System.*out*.println(result.toString());  
 }  
 public void delete() throws IOException{  
 Scanner sc = new Scanner(System.*in*);  
 System.*out*.println("Enter Customer ID for Deletion : ");  
 StringBuilder result = new StringBuilder();  
 String customerId = sc.next();  
 URL url = new  
 URL("http://localhost:8080/WebServices/rest/Day2Q3/deleteCustomer?custDelId=" +  
 customerId);  
 HttpURLConnection conn = (HttpURLConnection) url.openConnection();  
 conn.setRequestMethod("DELETE");  
 try (BufferedReader reader = new BufferedReader(  
 new InputStreamReader(conn.getInputStream()))) {  
 for (String line; (line = reader.readLine()) != null; ) {  
 result.append(line);  
 }  
 }  
 System.*out*.println(result.toString());  
 }  
}  
public class Question2 {  
 public static void main(String[] args) throws IOException {  
 Scanner sc = new Scanner(System.*in*);  
 System.*out*.println("Enter your option :\n1.Get Data by Customer ID\n2.Get   
 All Data\n3.Insert Customer\n4.Delete Customer\n5.Exit");  
 int option = sc.nextInt();  
 if(option == 1){  
 getAll obj = new getAll();  
 obj.getByCustomerId();  
 }  
 else if(option == 2){  
 getAll obj = new getAll();  
 obj.getAll();  
 }  
 else if(option == 3){  
// getAll obj = new getAll();  
// obj.insert();  
 System.*out*.println("This is beta version, development still in   
 process.");  
 }  
 else if(option == 4){  
 getAll obj = new getAll();  
 obj.delete();  
 }  
 else{  
 System.*exit*(0);  
 }  
 }  
}

**3. Make the client as a Webclient and use JSON and Ajax to call the Rest service from an HTML Page.**