RESTFul ASSIGNMENT Day_2

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1. In the same RestService add one method to test Post method mapping. Create a form to accept username and send it to the service with the help of Post method. In the service retrieve this username with the help of @FormParam annotation and send a message "Hello " + username back to the client application. Use Postman API to test your service. Make use of proper @Consumes and @Produces annotation.

2. Update the Question – 4 of Day 1 to accept username and password. Authenticate the user.

```
package com.rest.assignment01;
    import com.rest.entity.LoanDetails;
    import com.rest.entity.LoanDetailsDAO;
    import javax.ws.rs.*;
    import javax.ws.rs.core.MediaType;
    import java.util.HashMap;
    import java.util.List;

@Path("/Question4")
public class Question4 {
    HashMap<Integer, String> hashMap = new HashMap<>();
    public void insertCredentials() {
        hashMap.put(1, "Harshit");
    }
}
```

3. Create an application using the RESTful Web Services. The application needs to use GET, POST, DELETE methods to perform the following operations: a. GET/customers - Get the list of all the registered customers in form of JSON object from the database. b. GET/customer/{customerId} - Get the Customer details given the customer Id. If the customer is not available, it send null object back. c. POST – register a customer from the details given in the form. The customer class can be used from Java Day-3 assignment. d. DELETE – given a customer id, delete the customer details from the database.

```
package com.rest.assignment02;
    import com.rest.entity.Customer;
    import javax.ws.rs.*;
    import javax.ws.rs.core.MediaType;
    import java.util.List;
    @Path("/Day2Q3")
    public class Question3 {
        @GET
        @Path("/customers") // Q3A
        @Produces(MediaType.TEXT_PLAIN)
        public String getAll() {
            String str = "Here are the list of contents: ";
            CustomerDAO obj = new CustomerDAO();
            List<Customer> customerList = obj.readAll();
            if(customerList.size() == 0)
```

```
str += customerList.get(i).toString();
           monthlyIncome, monthyExpense);
@DELETE
@Path("/deleteCustomer")
public String deleteCustomer(
        @QueryParam("custDelId") int customerId
    if(customerList.size() == 0)
```

```
}
}
```

```
private String name;
private String dob;
    this.monthlyExpense = monthlyExpense;
public void setName(String name) {
public String getEmail() {
public void setNumber(long number) {
public long getMonthyIncome() {
public void setMonthyIncome(long monthyIncome) {
public long getMonthlyExpense() {
```

```
} catch (SQLException | ClassNotFoundException e) {
public List<Customer> readAll() {
    } catch (SQLException e) {
```

```
<br/>
<a href="rest/Day2Q3/customers">Customer Get All</a>
<br/>
<br>
<a href="rest/Day2Q3/customers/1">Get Customer 1</a>
<br/>
<a href="rest/Day2Q3/customers/1">Get Customer"></a>
<br/>
<a href="rest/Day2Q3/customers/1">Get Customer"></a>
<br/>
<a href="rest/Day2Q3/customers/1">Get Customer">Gustomer"</a>
<br/>
<a href="rest/Day2Q3/customers/1">Get Customer"</a>
<br/>
<a href="rest/Day2Q3/deleteCustomer">Get All</a>
<br/>
<a href="rest/Day2Q3/customers/1">Get Customer"</a>
<br/>
<a href="rest/Day2Q3/deleteCustomer">Get All</a>
<br/>
<a href="rest/Day2Q3/customers/1">Get Customer Information of the customer Informatio
```

4. Create a RESTful web service to find out whether mentioned applicant is eligible for loan and for what amount. The customer object needs to be passed to the method of the webservice.

5. Create a RESTful web service to get the details of all the loans whose emis are overdue.

```
package com.rest.assignment02;
    import com.rest.entity.EmiDAO;
    import javax.ws.rs.GET;
    import javax.ws.rs.Path;
    import javax.ws.rs.Produces;
    import javax.ws.rs.core.MediaType;

@Path("/Day2Q5")
public class Question5 {
    @GET
    @Path("/dueEmi")
    @Produces(MediaType.TEXT_PLAIN)
    public String getDueEmi(){
```

```
EmiDAO obj = new EmiDAO();
    return obj.readDueEmi();
}
```

```
public EmiDAO(){}
    } catch (SQLException | ClassNotFoundException e) {
                CUSTOMEREMISTATUS16920 WHERE UPPER(CustomereMIStatus) =
                customerDetails = new ArrayList<>();
            Emi obj = new Emi(rs.getInt(1), rs.getString(2),
                    rs.getString(3));
    } catch (NumberFormatException | SQLException e) {
```

```
package com.rest.entity;
public class Emi {
   private int customerId;
   private String customerLoanId;
   private String customerEmiStatus;
```