

WPS ASSIGNMENT-3

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1602-18-733-058

CSE-A

Below is the link for the preview of all questions:

https://likhitaavl2k.github.io/Assignment3_WPS/

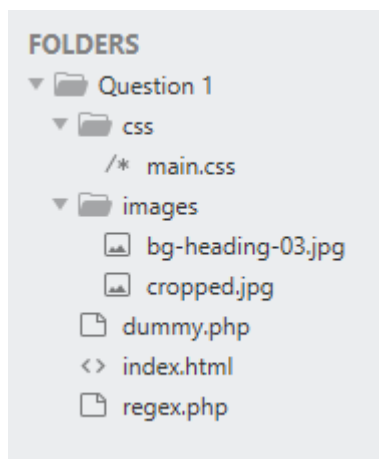
Github link:

https://github.com/likhitaavl2k/Assignment3_WPS

Question 1

Write a PHP regular expression pattern that matches a string that satisfies the following description: The string must begin with the (uppercase) letter A. Any three alphanumeric characters must follow. After these, the letter B (uppercase or lowercase) must be repeated one or more times, and the string must end with two digits.

Project Structure:



Source Code:

[index.html](#)

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

  <title>Sign Up!</title>

  <link
href="https://fonts.googleapis.com/css?family=Poppins:100,100i,200,200i,300,300i,400,400
i,500,500i,600,600i,700,700i,800,800i,900,900i" rel="stylesheet">

  <link href="css/main.css" rel="stylesheet" media="all">

</head>

<body>

  <div class="page-wrapper bg-gra-01 p-t-180 p-b-100 font-poppins">

    <div class="wrapper wrapper--w780">

      <div class="card card-3" >

        <div class="card-heading"></div>

        <div class="card-body">

          <h2 class="title">Registration Info</h2>

          <form action="regex.php" method="POST">

            <div class="input-group">

              <input class="input--style-3" type="text" placeholder="Name"
name="name">

            </div>

            <div class="input-group">

              <input class="input--style-3" type="email" placeholder="Email"
name="email">

            </div>

            <div class="input-group">
```

```
        <input class="input--style-3" type="password" placeholder="Password"
name="password" id="password">

    </div>

    <input type="checkbox" onclick="myFunction()" style="position: relative;left: -
125px;"><label style="color: white;position: relative;left: 24px;top: -22px;" > Show
Password</label>

    <div class="p-t-10">

        <button class="btn btn--pill btn--green" name="submit"
type="submit">Submit</button>

    </div>

</form>

</div>

</div>

</div>

</div>

</div>

<script>

function myFunction() {

    var x = document.getElementById("password");

    if (x.type === "password") {

        x.type = "text";

    } else {

        x.type = "password";

    }

}

</script>

</body>

</html>
```

Regex.php:

```
<?php
```

```
require_once("dummy.php");

if (isset($_POST['submit'])){
    $password = $_POST['password'];
}

$exp = preg_match_all("/^A[a-zA-z0-9]{3}[b|B]+[0-9]{2}/", $password, $array);

if($exp){
    echo "<script>
    swal({
        title: 'Strong Password!!',
        text: 'Matched with regex!',
        type: 'success'
    },
    function(){
        window.location.href = 'index.html';
    });
    </script>";
}
else{
    echo "<script> swal('Wrong!!', 'The password must begin with the (uppercase)
letter A. Any three alphanumeric characters must follow. After these, the letter B
(uppercase or lowercase) must be repeated one or more times, and the string must end
with two digits', 'error') </script>";

    echo "<script>
    swal({
        title: 'Wrong!!',
```

text: 'The password must begin with the (uppercase) letter A. Any three alphanumeric characters must follow. After these, the letter B (uppercase or lowercase) must be repeated one or more times, and the string must end with two digits',

```
        type: 'error'
    },
    function(){
        window.location.href = 'index.html';
    });
</script>";
}
```

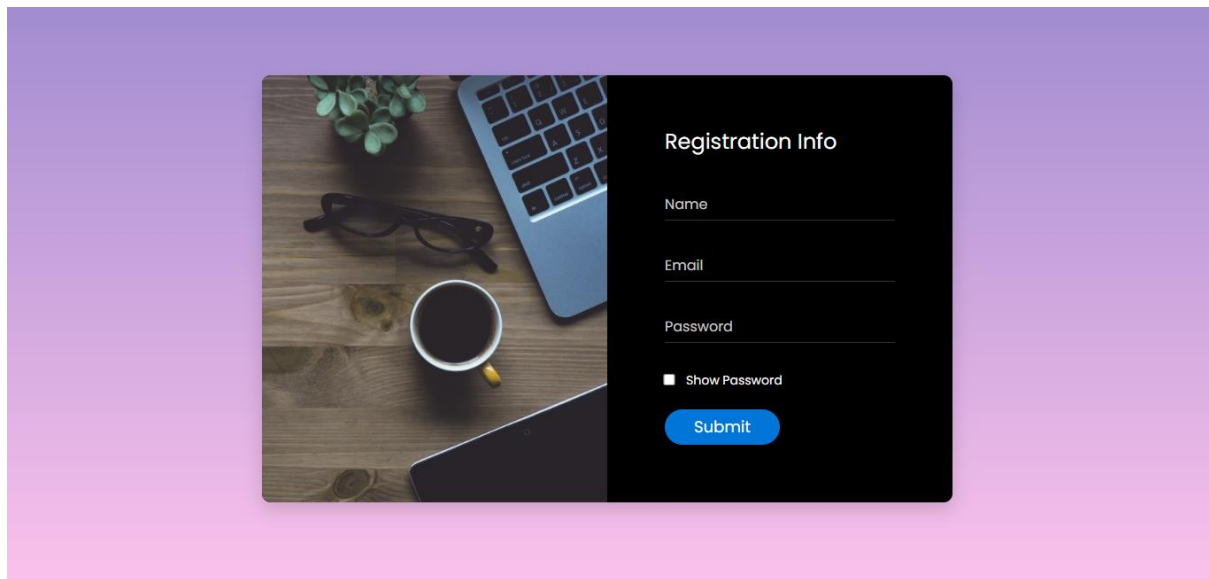
?>

Dummy.php:

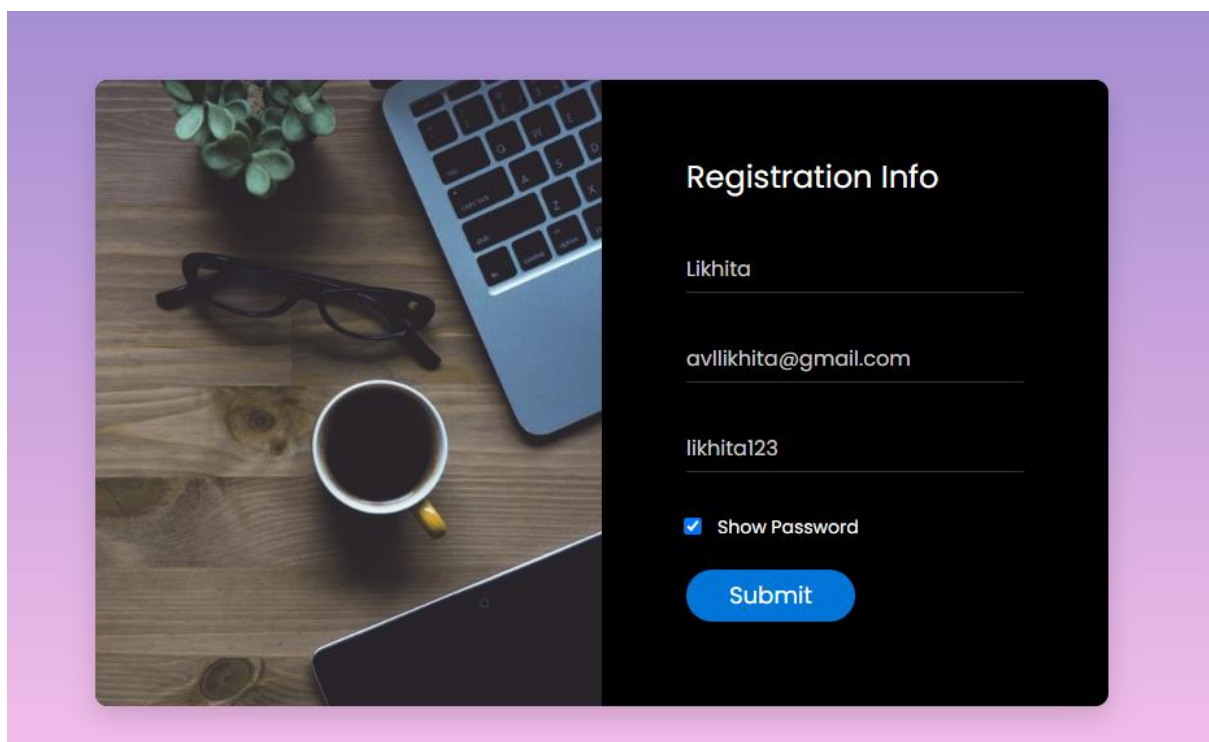
```
<html>
<head>
    <link
href="https://cdnjs.cloudflare.com/ajax/libs/sweetalert/1.1.3/sweetalert.min.css"
rel="stylesheet"/>
    <script
src="https://ajax.googleapis.com/ajax/libs/jquery/2.1.1/jquery.min.js"></script>
    <script
src="https://cdnjs.cloudflare.com/ajax/libs/sweetalert/1.1.3/sweetalert.min.js"></
script>
</head>
</html>
```

Screenshots/Output:

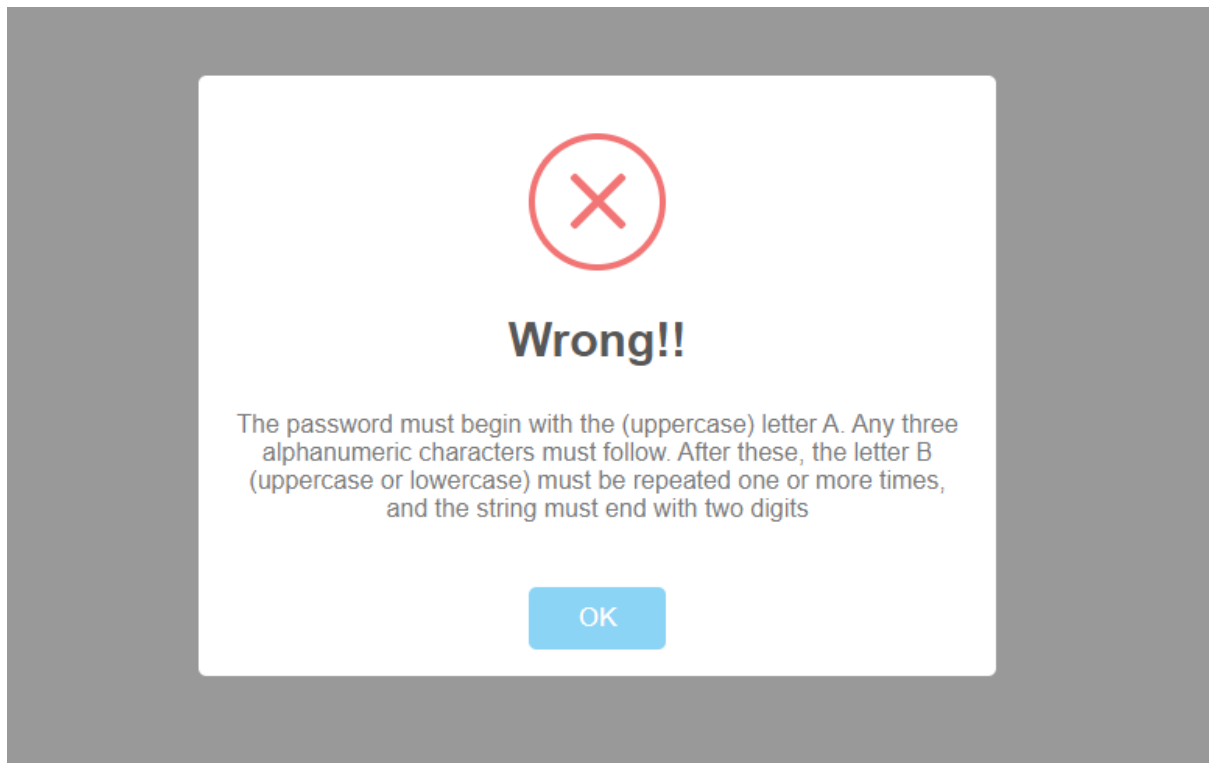
1) Index page:



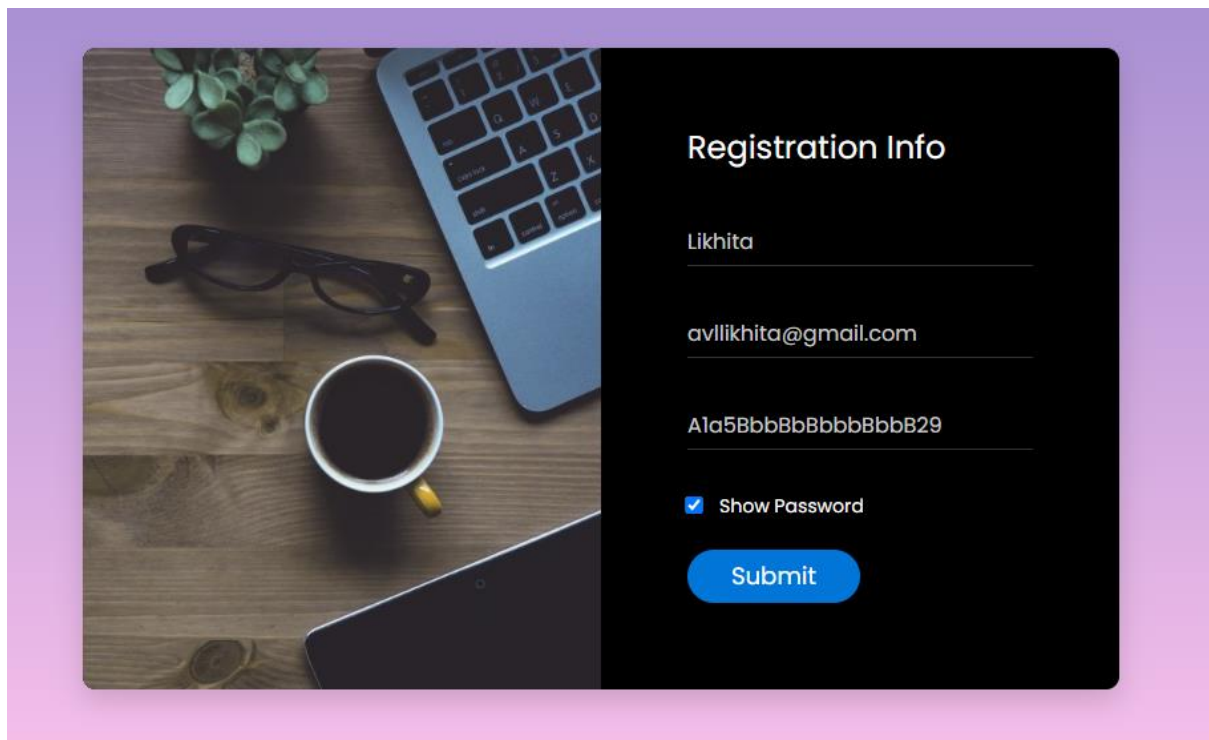
2) Regex for password :



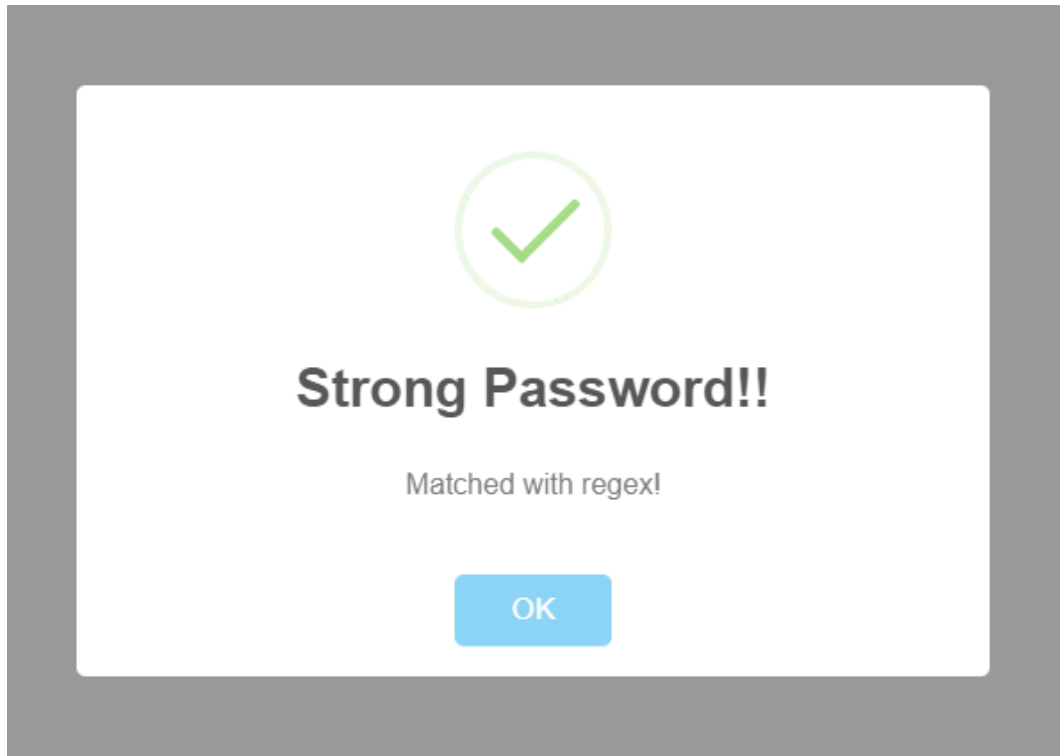
3) Password does not match given regex pattern



4) With correct pattern:



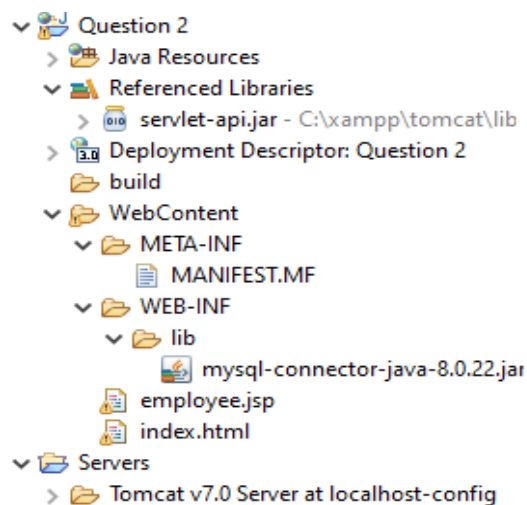
5) Shows that the password is right and matches regex pattern



Question 2

Write a JSP program to generate the user details based on empid.

Project structure:



Source code:

Index.html:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Document</title>
<link rel="stylesheet"
      href="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/dist/css/bootstrap.min.c
ss"
      integrity="sha384-
TX8t27EcRE3e/ihU7zmQxVncDAy5uIKz4rEkgIXeMed4M0jLFIIDPvg6uqKI2xXr2"
      crossorigin="anonymous">
</head>
<body>
  <form action="employee.jsp" method="post">
    <div class="form-group">
      <label for="id" style="position: absolute; top: 70px; left:
25%;"><b>Employee
                                ID:</b></label> <input type="text" class="form-
control" name="id" id="id"
                                style="width: 15%; position: absolute; top: 100px;
left: 25%;">
      </div>
      <button type="submit" class="btn btn-primary "
              style="position: absolute; top: 180px; left:
28%;">SUBMIT</button>
    </form>

    <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"
            integrity="sha384-
DfxDz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj"
            crossorigin="anonymous"></script>
    <script

      src="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/dist/js/bootstrap.bundle.
min.js"
      integrity="sha384-
ho+j7jyWK8fNQe+A12Hb8AhRq26LrZ/JpcUGGOn+Y7RsweNrtN/tE3MoK7ZeZDyx"
      crossorigin="anonymous"></script>
  </body>
</html>
```

Employee.jsp:

```
<%@page import="java.sql.DriverManager"%>
<%@page import="java.sql.ResultSet"%>
<%@page import="java.sql.Statement"%>
<%@page import="java.sql.Connection"%>

<%
int empid = Integer.parseInt(request.getParameter("id"));
String driverName = "com.mysql.cj.jdbc.Driver";
String connectionUrl = "jdbc:mysql://localhost/";
String dbName = "new1";
String userId = "root";
String password = "";
```

```

try {
    Class.forName(driverName);
} catch (ClassNotFoundException e) {
    e.printStackTrace();
}

Connection connection = null;
Statement statement = null;
ResultSet resultSet = null;
%>
<h2 align="center">
    <font><strong style="position: absolute;top: 28%;left: 13%;color:
#d7213a;font-family: cursive;font-size: 35px;">DETAILS OF THE
EMPLOYEE:</strong></font>
</h2>
<table align="center" cellpadding="20" style="position: absolute;top: 40%;left:
10%;" >
    <tr>

    </tr>

    <tr bgcolor="#5bc0de" style="border: none;font-size: 20px;" >
        <td ><b>Emp ID</b></td>
        <td><b>Name</b></td>
        <td><b>Email</b></td>
        <td><b>DOB</b></td>

    </tr>
    <%
    try {
        connection = DriverManager.getConnection(connectionUrl + dbName,
userId, password);
        statement = connection.createStatement();
        String sql = "SELECT * FROM employees where empid=" + empid;
        resultSet = statement.executeQuery(sql);
        while (resultSet.next()) {
            %>
            <tr style="font-size: 20px;" >

                <td><b><% out.print(empid); %></b></td>
                <td><b><%=resultSet.getString("name")%></b></td>
                <td><b><%=resultSet.getString("email")%></b></td>
                <td><b><%=resultSet.getString("dob")%></b></td>

            </tr>

            <%
                }

            } catch (Exception e) {
                e.printStackTrace();
            }
            %>
        </table>

```

Screenshots/Outputs :

1) Index page:

http://localhost:8080/Question%202/index.html

Employee ID:

SUBMIT

2) Enter employee id (of form 733abc)

Employee ID:

SUBMIT

localhost / 127.0.0.1 / new1 / empl x localhost:8080/Question 2/empl x +
localhost:8080/Question%202/employee.jsp

DETAILS OF THE EMPLOYEE:

Emp ID	Name	Email	DOB
733058	Likhita	avllikhita@gmail.com	2000-03-10

Employee ID:

733024

SUBMIT

DETAILS OF THE EMPLOYEE:

Emp ID	Name	Email	DOB
733024	Karthik	karthikkalitkar@gmail.com	2001-10-23

3) Database:

+ Options

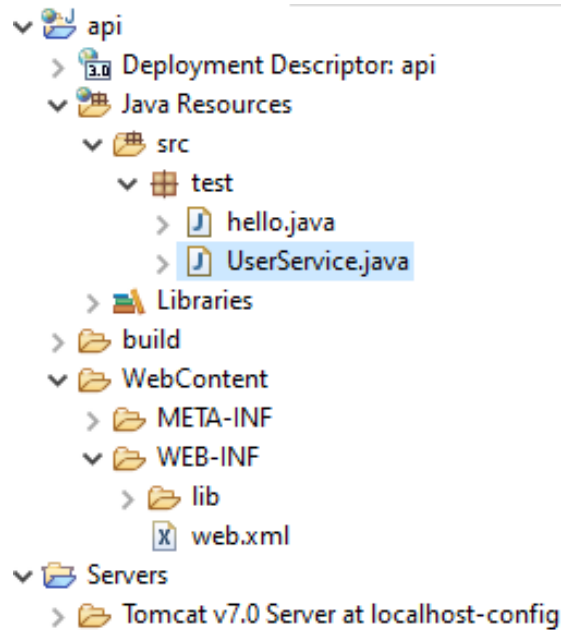
					id	empid	name	email	dob		
<input type="checkbox"/>		Edit		Copy		Delete	1	733058	Likhita	avllikhita@gmail.com	2000-03-10
<input type="checkbox"/>		Edit		Copy		Delete	2	733024	Karthik	karthikkalitkar@gmail.com	2001-10-23
<input type="checkbox"/>		Edit		Copy		Delete	3	733043	Keerti	ksskeerti@gmail.com	2001-01-01
<input type="checkbox"/>		Edit		Copy		Delete	4	733041	Hashitha	hashithavarma0602@gmail.com	2001-02-06

☐ Check all With selected: Edit Copy Delete Export

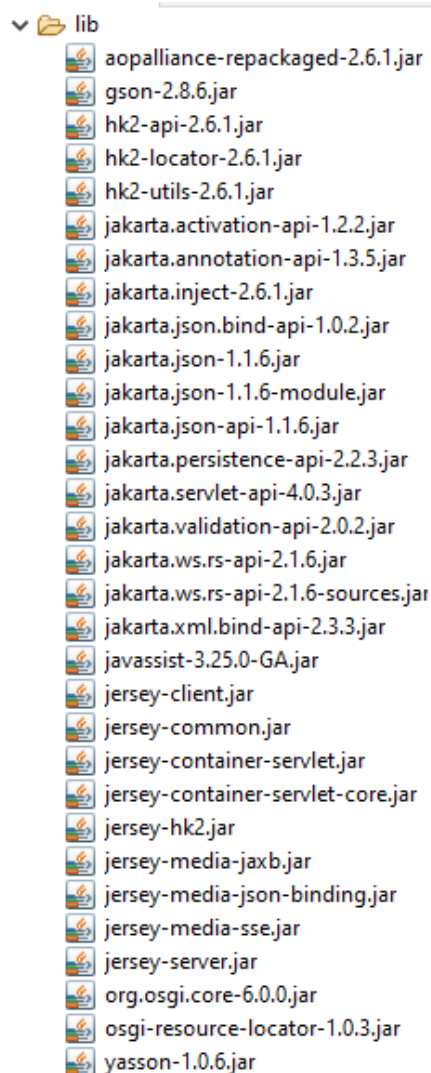
Question 3

Create a web service client to create a rest based service hosted at <https://ipaddress/api/products/3> to display the user data..

Project structure for creating an api:



Creation using jersey package:



Source code for creation:

Hello.java:

```
package test;

public class hello {

    private Integer id;
    private String name;
    private String branch;
    private String email;

    public hello(Integer id,String name,String branch,String email) {
        super();
        this.id = id;
        this.name = name;
        this.branch = branch;
        this.email = email;
    }

    public hello() {
        super();
    }

    public Integer getId() {
        return id;
    }

    public void setId(Integer id) {
        this.id = id;
    }

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public String getBranch() {
        return branch;
    }

    public void setBranch(String branch) {
        this.branch = branch;
    }

    public String getEmail() {
        return email;
    }

    public void setEmail(String email) {
        this.email = email;
    }

    public String toString() {
        return "User [id=" + id + ", name=" + name + "branch=" + branch +
"email=" + email + "]";
    }
}
```

```

    }

}

```

UserService.java:

```

package test;

import java.io.IOException;
import java.util.*;

import javax.ws.rs.GET;
import javax.ws.rs.Path;
import javax.ws.rs.Produces;
import javax.ws.rs.container.ContainerRequestContext;
import javax.ws.rs.container.ContainerResponseContext;
import javax.ws.rs.container.ContainerResponseFilter;
import javax.ws.rs.core.MediaType;

@Path("/3")
public class UserService implements ContainerResponseFilter {
    @GET
    @Produces(MediaType.APPLICATION_JSON)
    public List<hello> getjson() {

        List<hello> list = new ArrayList<>();
        list.add(new hello(58, "Likhita", "CSE", "avllikhita@gmail.com"));
        list.add(new hello(43, "Keerti", "CSE", "ksskeerti@gmail.com"));
        list.add(new hello(41, "Hashitha", "CSE",
"hashithaa0602@gmail.com"));
        list.add(new hello(24, "Karthik", "CSE",
"karthikkalitkar@gmail.com"));
        list.add(new hello(57, "Kiran", "MECH", "kiranreddy@gmail.com"));

        return list;
    }

    public void filter(ContainerRequestContext request,
        ContainerResponseContext response) throws IOException {
        response.getHeaders().add("Access-Control-Allow-Origin", "*");
        response.getHeaders().add("Access-Control-Allow-Headers",
            "origin, content-type, accept, authorization");
        response.getHeaders().add("Access-Control-Allow-Credentials", "true");
        response.getHeaders().add("Access-Control-Allow-Methods",
            "GET, POST, PUT, DELETE, OPTIONS, HEAD");
    }
}

```

Web.xml:

```

<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://java.sun.com/xml/ns/javaee"
xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
http://java.sun.com/xml/ns/javaee/web-app_3_0.xsd" version="3.0">
    <display-name>api</display-name>

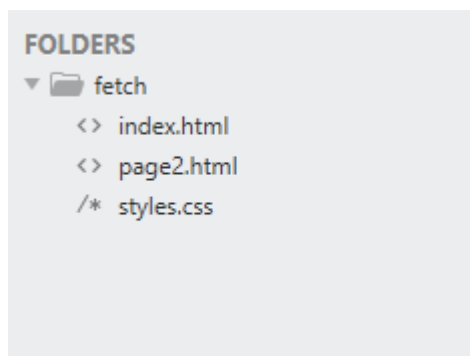
```

```

<servlet>
  <servlet-name>JAVA_API</servlet-name>
  <servlet-class>org.glassfish.jersey.servlet.ServletContainer</servlet-
class>
  <init-param>
    <param-name>jersey.config.server.provider.packages</param-name>
    <param-value>test</param-value>
  </init-param>
</servlet>
<servlet-mapping>
  <servlet-name>JAVA_API</servlet-name>
  <url-pattern>/products/*</url-pattern>
</servlet-mapping>
</web-app>

```

Project structure for fetching data:



Source Code for fetching:

Index.html:

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8" />
  <meta name="viewport"
content="width=device-width, initial-scale=1.0" />
  <title>Registered Users</title>
  <link rel="stylesheet" type="text/css" href="styles.css">
</head>
<body>
  <div class="d-flex justify-content-center">
    <div class="spinner-border"
role="status" id="loading">
      <span class="sr-only">Loading...</span>

```



```
        </div>
    </div>
    <h1>Registered Users:</h1>
    <table id="users"></table>

    <script>
        const api_url =
        "http://localhost:8080/api/products/3";
        async function getapi(url) {
            const response = await fetch(url);
            var data = await response.json();
            console.log(data);
            if (response) {
                hideloader();
            }
            show(data);
        }
        getapi(api_url);

        function hideloader() {
            document.getElementById('loading').style.display = 'none';
        }
        function show(data) {
            let tab =
            `<tr>
            <th>ID</th>
            <th>Name</th>
            <th>Branch</th>
            <th>Email</th>
            </tr>`;

            for (var i = 0; i< data.length ;i++) {
                tab += `<tr>
                <td>${data[i].id} </td>
```

```

        <td>${data[i].name}</td>
        <td>${data[i].branch}</td>
        <td>${data[i].email}</td>
    </tr>`;
    }
    document.getElementById("users").innerHTML = tab;
}

</script>
<br><br><br>
<div>
    <a href="page2.html" style="font-size: 20px;">Search a specific id ??</a>
</div>
</body>
</html>

```

Page2.html:

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8" />
    <meta name="viewport"
    content="width=device-width, initial-scale=1.0" />
    <title>Search a specific ID</title>
    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/dist/css/bootstrap.min.css"
integrity="sha384-
TX8t27EcRE3e/ihU7zmQxVncDAY5uIKz4rEkgIXeMed4M0jlfIDPvg6uqKI2xXr2"
crossorigin="anonymous">
    <link rel="stylesheet" type="text/css" href="styles.css">
</head>
<body>
    <br><br>
    <div >
        <h1 id="title" >Search Results:</h1>
        <table id="users" ></table>

```

```
</div>

<br><br>

<div id="search" >

    <input type="text" name="select" id="select" placeholder="Enter a
number (0-4)" style="position: absolute;left: 10%;"> <br><br><br>

    <button class="btn btn-primary" onclick="searchbynum();"
style="position: absolute;left: 13%;">Search</button>

</div>
```

```
<script>
```

```
function searchbynum(){
    var inputVal = document.getElementById("select").value;
    const api_url =
        "http://localhost:8080/api/products/3";
```

```
    async function getapi(url) {

        const response = await fetch(url);

        var data = await response.json();
        console.log(data[inputVal]);
        show2(data,inputVal);
    }
```

```
    getapi(api_url);
```

```
function show2(data,inputVal){
```

```
    let tab;
    tab =
    `<tr>
    <th>ID</th>
    <th>Name</th>
    <th>Branch</th>
```

```

        <th>Email</th>
    </tr>`;

    tab += `<tr>
        <td>${data[inputVal].id} </td>
        <td>${data[inputVal].name}</td>
        <td>${data[inputVal].branch}</td>
        <td>${data[inputVal].email}</td>
    </tr>`;

    document.getElementById("users").innerHTML = tab;
    }
    }
</script>

<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"
integrity="sha384-
DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj"
crossorigin="anonymous"></script>

<script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/dist/js/bootstrap.bundle.min.js"
integrity="sha384-
ho+j7jyWK8fNQe+A12Hb8AhRq26LrZ/JpcUGGOn+Y7RsweNrtN/tE3MoK7ZeZDyx"
crossorigin="anonymous"></script>
</body>
</html>

```

Styles.css:

```

#users {
    font-family: Arial, Helvetica, sans-serif;
    border-collapse: collapse;
    width: 50%;
}

#users td, #users th {
    border: 1px solid #ddd;
    padding: 8px;
}

```

```
#users tr:nth-child(even){background-color: #f2f2f2;}
```

```
#users tr:hover {background-color: #ddd;}
```

```
#users th {  
    padding-top: 12px;  
    padding-bottom: 12px;  
    text-align: left;  
    background-color: #4CAF50;  
    color: white;  
}
```

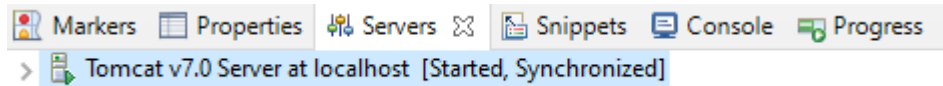
```
a:link, a:visited {  
    background-color: #f44336;  
    color: white;  
    padding: 14px 25px;  
    text-align: center;  
    text-decoration: none;  
    display: inline-block;  
}
```

```
a:hover, a:active {  
    background-color: red;  
}
```

```
input[type=text]{  
    width: 25%;  
    padding: 12px 20px;  
    margin: 8px 0;  
    border: 1px solid #ccc;  
}
```

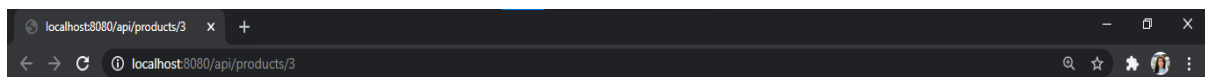
Screenshots/Output for creation of api:

1) Starting of tomcat server:



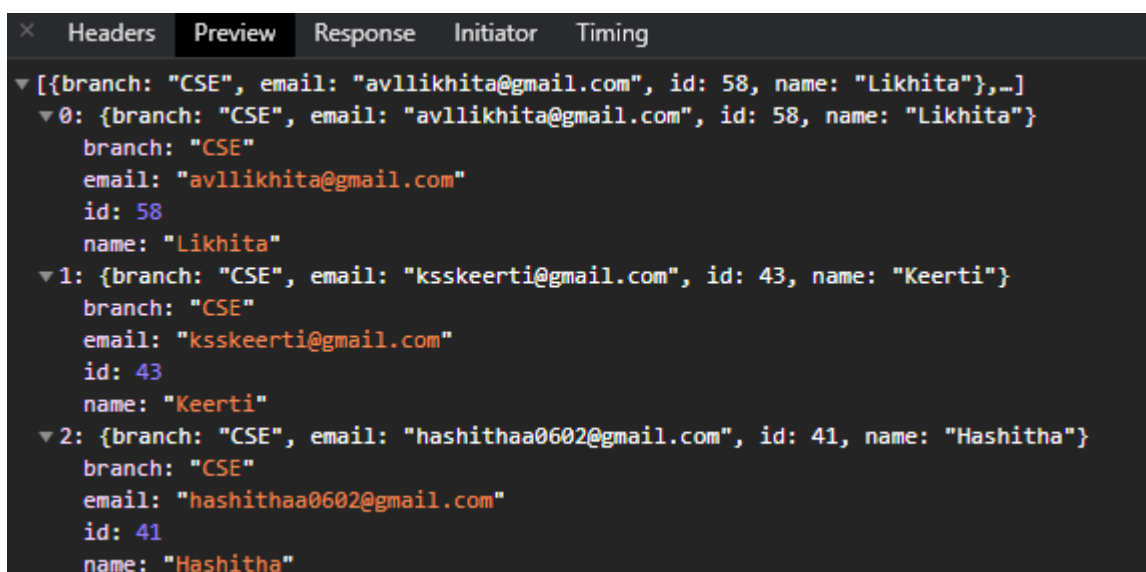
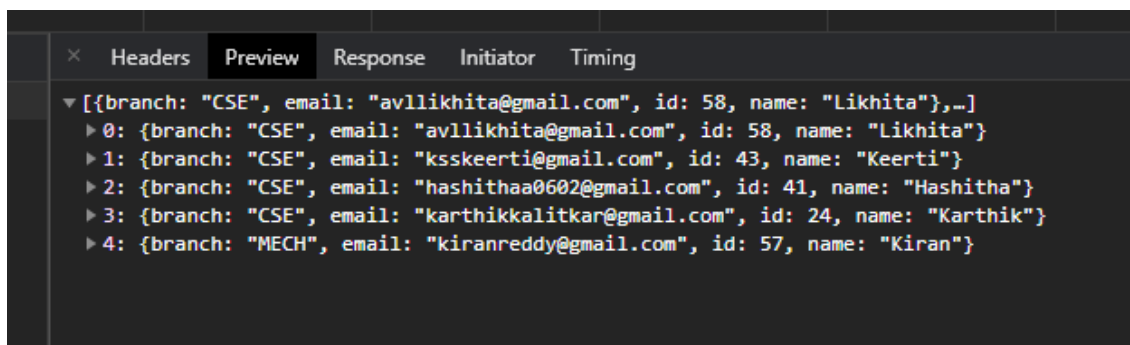
2) Accessing my api using server

My api: <http://localhost:8080/api/products/3>



```
[{"branch": "CSE", "email": "avllikhita@gmail.com", "id": 58, "name": "Likhita"},  
{ "branch": "CSE", "email": "ksskeerti@gmail.com", "id": 43, "name": "Keerti"},  
{ "branch": "CSE", "email": "hashithaa0602@gmail.com", "id": 41, "name": "Hashitha"},  
{ "branch": "CSE", "email": "karthikkalitkar@gmail.com", "id": 24, "name": "Karthik"},  
{ "branch": "MECH", "email": "kiranreddy@gmail.com", "id": 57, "name": "Kiran"}]
```

3) Data in JSON format (In Console) :



```
▼ 3: {branch: "CSE", email: "karthikkalitkar@gmail.com", id: 24, name: "Karthik"}
  branch: "CSE"
  email: "karthikkalitkar@gmail.com"
  id: 24
  name: "Karthik"
▼ 4: {branch: "MECH", email: "kiranreddy@gmail.com", id: 57, name: "Kiran"}
  branch: "MECH"
  email: "kiranreddy@gmail.com"
  id: 57
  name: "Kiran"
```

Screenshots/Output for fetching data from my api:

1) Before getting access to api

Loading...

Registered Users:

Search a specific id ??

2) After getting access to api:


Registered Users:

ID	Name	Branch	Email
58	Likhita	CSE	avllikhita@gmail.com
43	Keerti	CSE	ksskeerti@gmail.com
41	Hashitha	CSE	hashithaa0602@gmail.com
24	Karthik	CSE	karthikkalitkar@gmail.com
57	Kiran	MECH	kiranreddy@gmail.com

Search a specific id ??

3) For searching with specific id:

Search a specific id ??



4) Enter 0-4 because we have data of 5 members

Enter a number (0-4)

Search

5) Enter 0

0

Search

Search Results:

ID	Name	Branch	Email
58	Likhita	CSE	avllikhita@gmail.com

0

Search

Search Results:

ID	Name	Branch	Email
43	Keerti	CSE	ksskeerti@gmail.com

6) If not available

Search Results: