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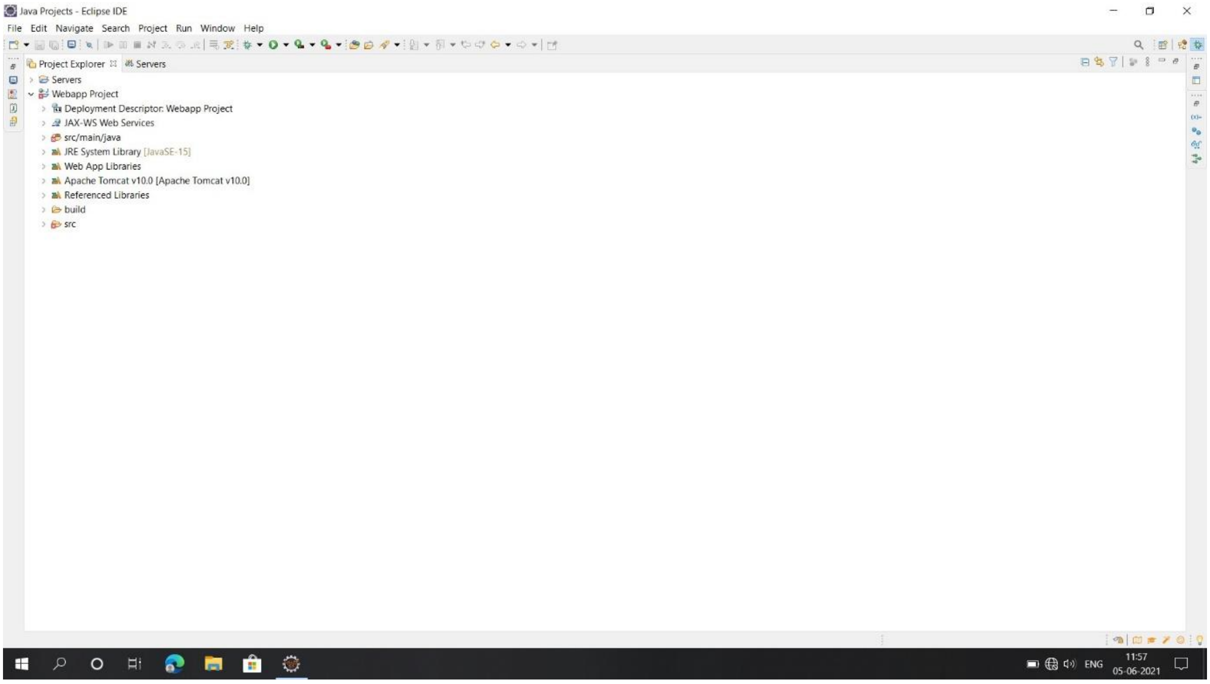
COLLEGE: LD COLLEGE OF ENGINEERING

SEM:7

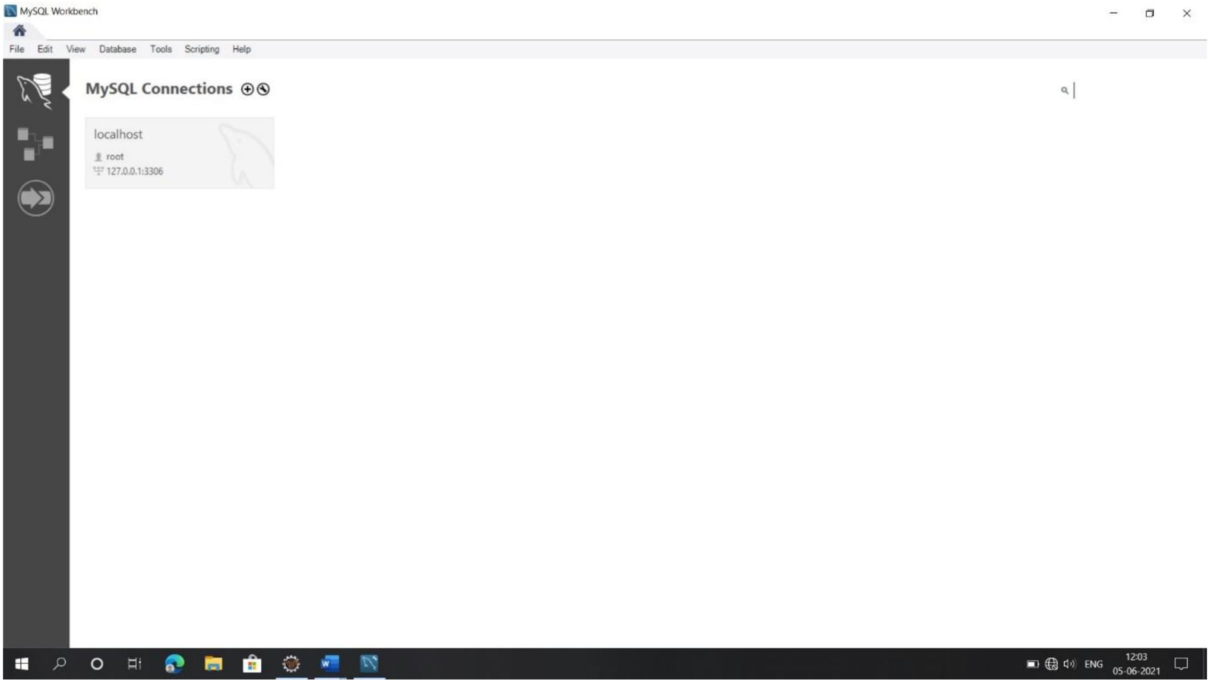
ADVANCE JAVA INTERNSHIP REPORT

DAY-1

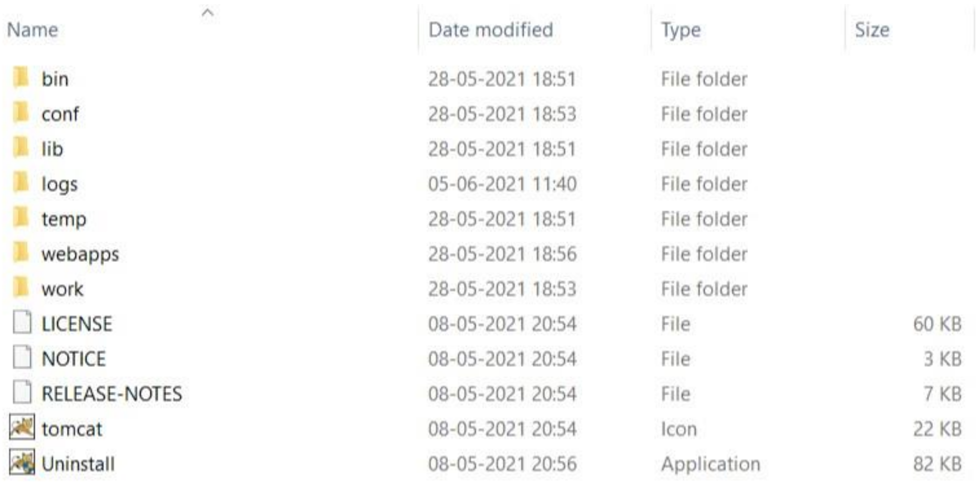
TASK-1 Download Eclipse IDE and setup for project


Java Projects - Eclipse IDE
File Edit Navigate Search Project Run Window Help
Project Explorer
Servers
Servers
Webapp Project
Deployment Descriptor: Webapp Project
JAX-WS Web Services
src/main/java
JRE System Library [JavaSE-15]
Web App Libraries
Apache Tomcat v10.0 [Apache Tomcat v10.0]
Referenced Libraries
build
src
ENG
11:57
05-06-2021

TASK-2 Download Mysql workbench



TASK-3 Download TOMCAT

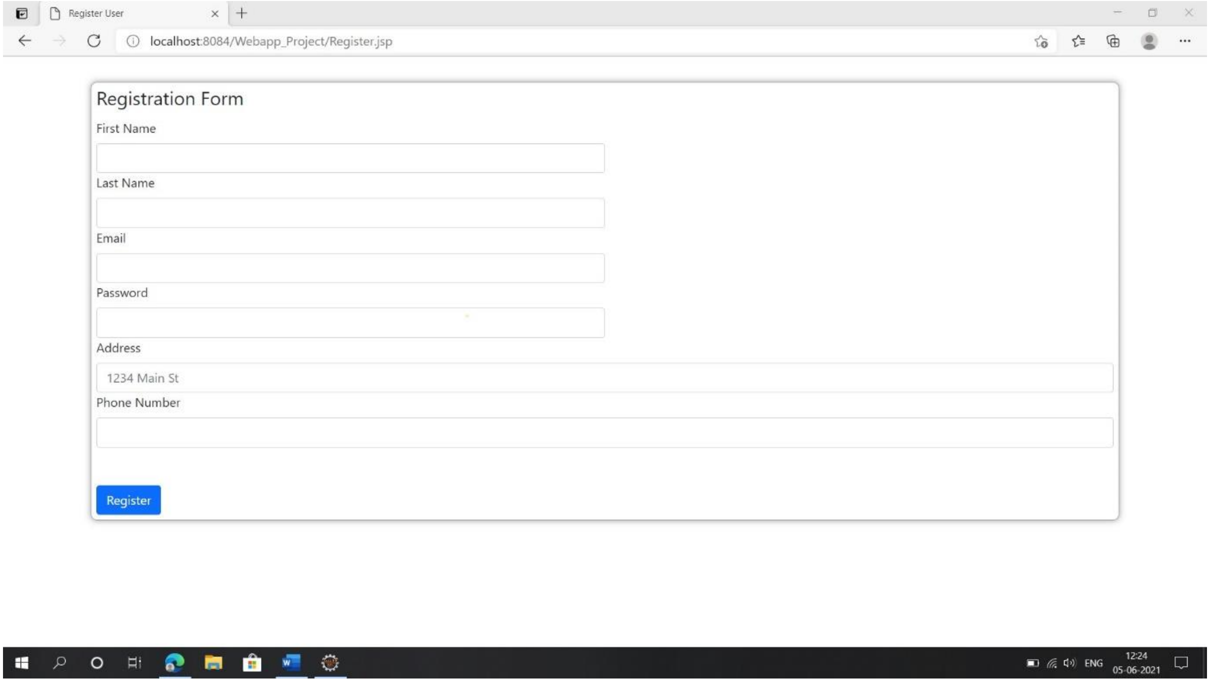


Name	Date modified	Type	Size
bin	28-05-2021 18:51	File folder	
conf	28-05-2021 18:53	File folder	
lib	28-05-2021 18:51	File folder	
logs	05-06-2021 11:40	File folder	
temp	28-05-2021 18:51	File folder	
webapps	28-05-2021 18:56	File folder	
work	28-05-2021 18:53	File folder	
LICENSE	08-05-2021 20:54	File	60 KB
NOTICE	08-05-2021 20:54	File	3 KB
RELEASE-NOTES	08-05-2021 20:54	File	7 KB
tomcat	08-05-2021 20:54	Icon	22 KB
Uninstall	08-05-2021 20:56	Application	82 KB

TASK-4 create demo with HTML.

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Register User</title>
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.1/dist/css/bootstra
p.min.css" rel="stylesheet" integrity="sha384-
+0n0xVW2eSR5OomGNYDnhzAbDsOXxcvSN1TPprVMTNDbiYZCxYbOOl7+AMvyTG2x"
crossorigin="anonymous">
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.1/dist/js/bootstrap.
bundle.min.js" integrity="sha384-
gtEjrD/SeCtmISkJkNUaaKMoLD0//ElJ19smozuHV6z3Iehds+3Ulb9Bn9Plx0x4"
crossorigin="anonymous"></script>
</head>
<body>

<div class="container">
<form class="row g-3 mt-3" >

 <fieldset style="border:1px solid #999; border-radius:8px; box-
shadow:0 0 8px #999;padding:6px;">
  <legend style="text-align: left;margin-top:-5px;">Registration
Form</legend>

  <div class="col-md-6">
    <label for="fname" class="form-label">First Name</label>
    <input type="text" class="form-control" id="fname" name="fname">
  </div>

  <div class="col-md-6">
    <label for="lname" class="form-label">Last Name</label>
    <input type="text" class="form-control" id="lname" name="lname">
  </div>

  <div class="col-md-6">
    <label for="inputEmail4" class="form-label">Email</label>
    <input type="email" class="form-control" id="inputEmail4"
name="email">
  </div>
  <div class="col-md-6">
    <label for="inputPassword4" class="form-label">Password</label>
    <input type="password" class="form-control" id="inputPassword4"
name="password">
  </div>

  <div class="col-12">
    <label for="inputAddress" class="form-label">Address</label>
    <input type="text" class="form-control" id="inputAddress"
placeholder="1234 Main St" name="address">
  </div>


  <div class="col-12">
    <label for="phonenumber" class="form-label">Phone Number</label>
    <input type="phonenumber" type="tel"  pattern="[+]{1}[0-
9]{11,14}"  class="form-control" id="phonenumber" name="phoneNumber"
required>
  </div>
  <div class="col-12 mt-5">
    <button type="submit" class="btn btn-primary">Register</button>
  </div>
  </fieldset>
</form>
</div>
</body>
</html>
```

OUTPUT



Registration Form

First Name

Last Name

Email

Password

Address

1234 Main St

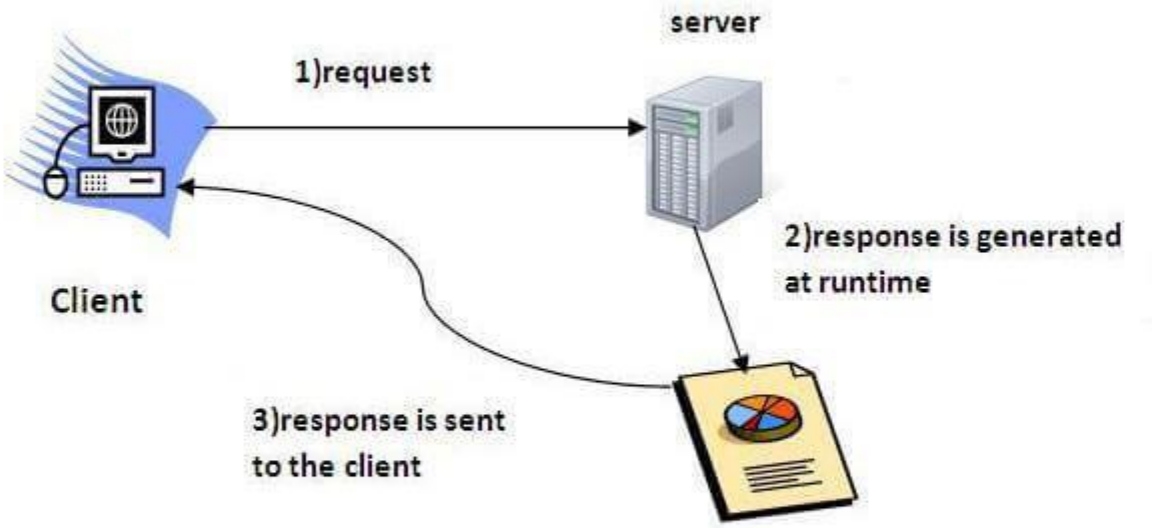
Phone Number

Register

TASK-5 Recall servlet and server

Servlet can be described in many ways, depending on the context.

- Servlet is a technology which is used to create a web application.
- Servlet is an API that provides many interfaces and classes including documentation.
- Servlet is an interface that must be implemented for creating any Servlet.
- Servlet is a class that extends the capabilities of the servers and responds to the incoming requests. It can respond to any requests.
- Servlet is a web component that is deployed on the server to create a dynamic web page.

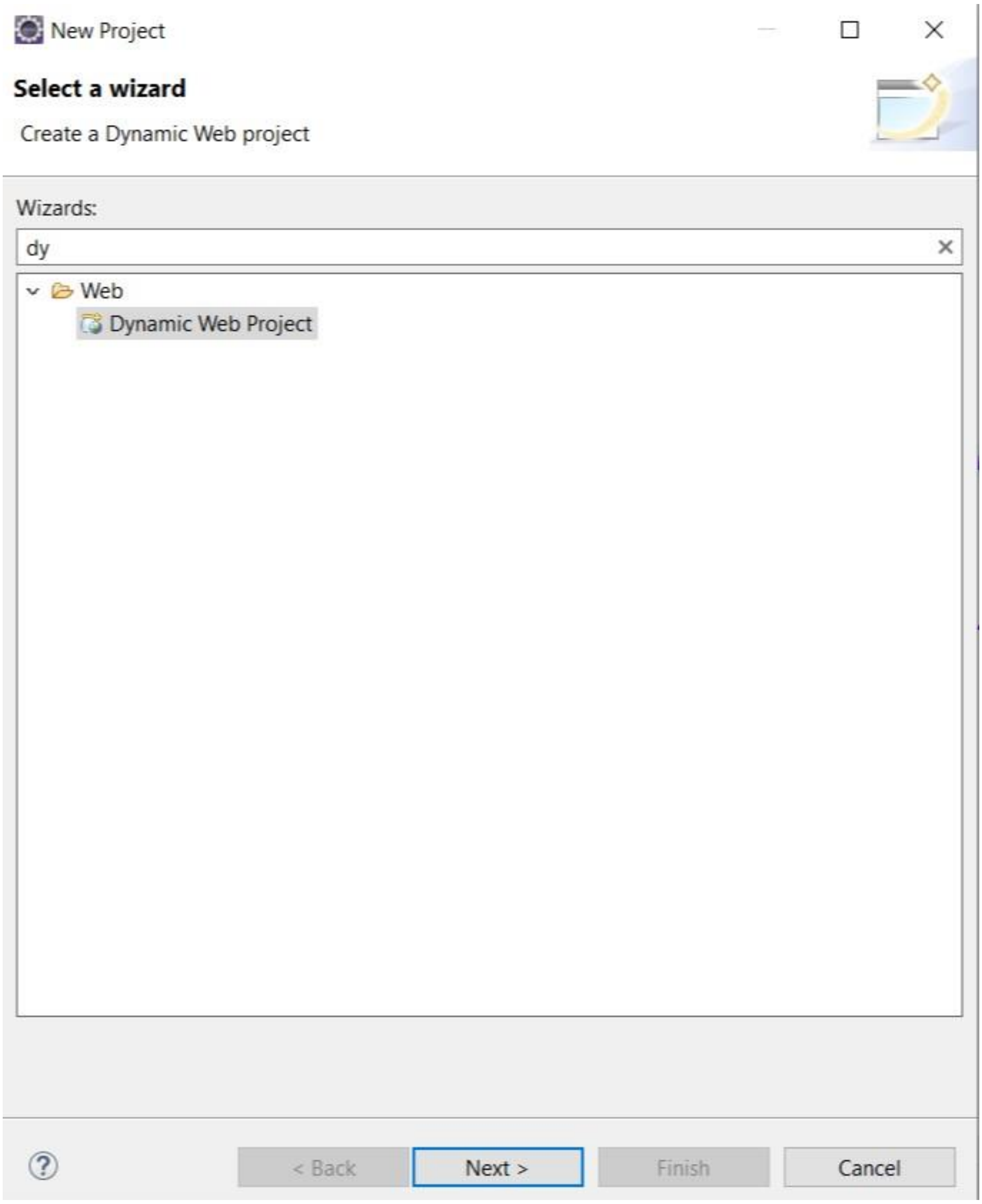

server
1)request
2)response is generated at runtime
Client
3)response is sent to the client

What is Tomcat?

It is an open-source Java servlet container that implements many Java Enterprise Specs such as the Websites API, Java-Server Pages and last but not least, the Java Servlet. The complete name of Tomcat is "Apache Tomcat" it was developed in an open, participatory environment and released in 1998 for the very first time. It began as the reference implementation for the very first Java-Server Pages and the Java Servlet API. However, it no longer works as the reference implementation for both of these technologies, but it is considered as the first choice among the users even after that. It is still one of the most widely used java-sever due to several capabilities such as good extensibility, proven core engine, and well-test and durable. Here we used the term "servlet" many times, so what is java servlet; it is a kind of software that enables the webserver to handle the dynamic(java-based) content using the Http protocols.

DAY-2

TASK-1 Create Dynamic web Project

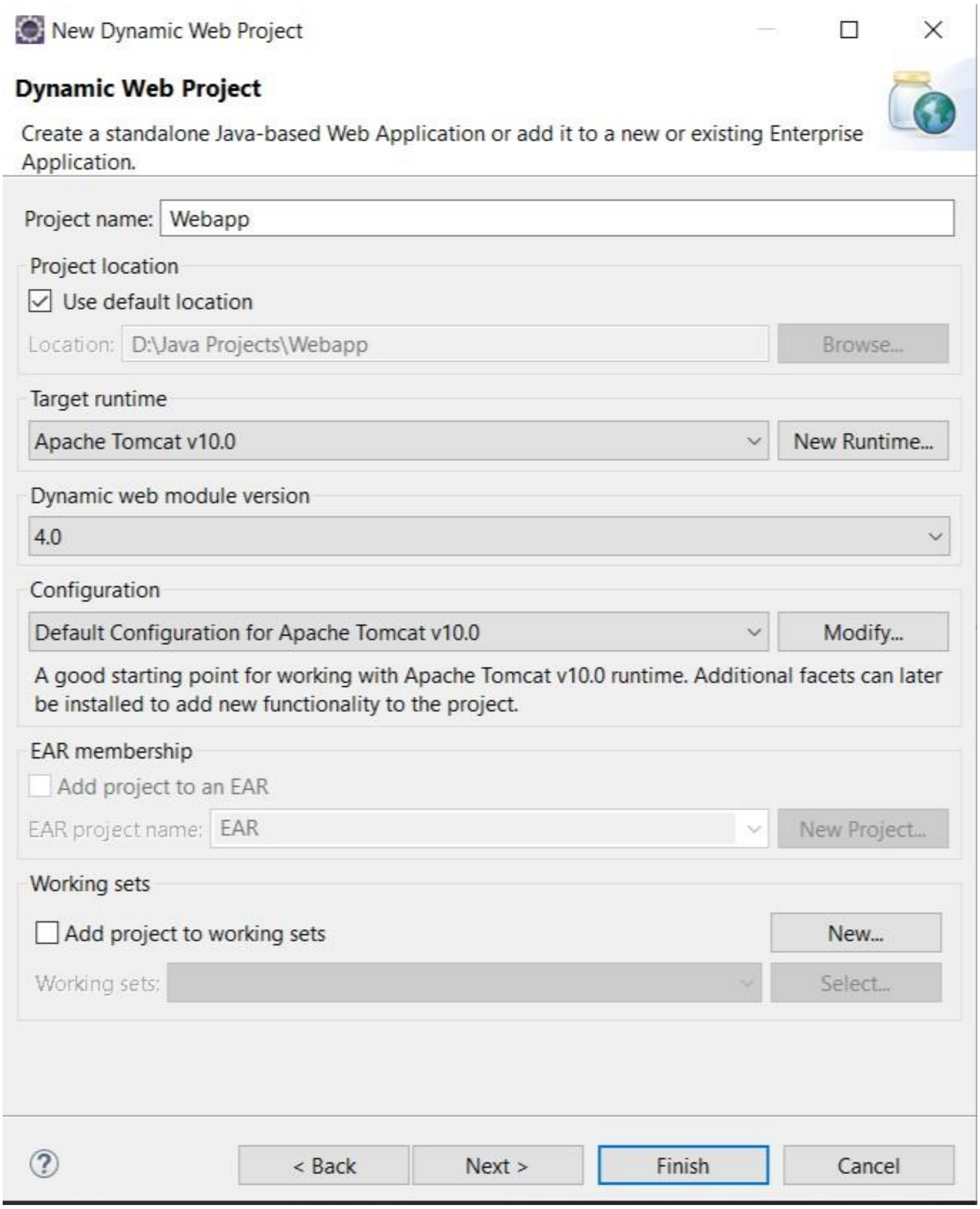

New Project

Select a wizard

Create a Dynamic Web project

Wizards:

dy



New Dynamic Web Project

Dynamic Web Project

Create a standalone Java-based Web Application or add it to a new or existing Enterprise Application.

Project name: Webapp

Project location

☑ Use default location

Location: D:\Java Projects\Webapp

Target runtime

Apache Tomcat v10.0

Dynamic web module version

4.0

Configuration

Default Configuration for Apache Tomcat v10.0

A good starting point for working with Apache Tomcat v10.0 runtime. Additional facets can later be installed to add new functionality to the project.

EAR membership

□ Add project to an EAR

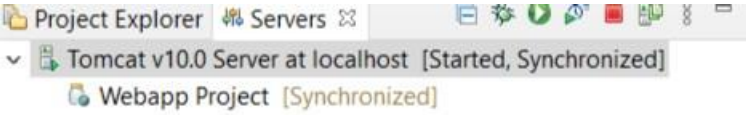
EAR project name: EAR

Working sets

□ Add project to working sets

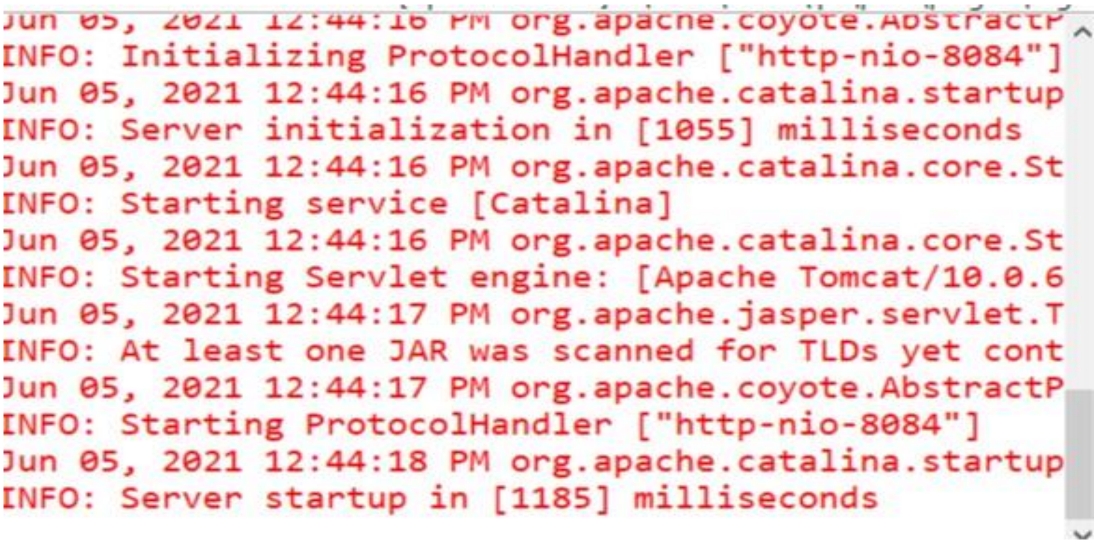
Working sets:

TASK-2 Setup server



```
Tomcat v10.0 Server at localhost  [Started, Synchronized]
    Webapp Project  [Synchronized]
```

Starting server



```
Jun 05, 2021 12:44:16 PM org.apache.coyote.AbstractP
INFO: Initializing ProtocolHandler ["http-nio-8084"]
Jun 05, 2021 12:44:16 PM org.apache.catalina.startup
INFO: Server initialization in [1055] milliseconds
Jun 05, 2021 12:44:16 PM org.apache.catalina.core.St
INFO: Starting service [Catalina]
Jun 05, 2021 12:44:16 PM org.apache.catalina.core.St
INFO: Starting Servlet engine: [Apache Tomcat/10.0.6
Jun 05, 2021 12:44:17 PM org.apache.jasper.servlet.T
INFO: At least one JAR was scanned for TLDs yet cont
Jun 05, 2021 12:44:17 PM org.apache.coyote.AbstractP
INFO: Starting ProtocolHandler ["http-nio-8084"]
Jun 05, 2021 12:44:18 PM org.apache.catalina.startup
INFO: Server startup in [1185] milliseconds
```

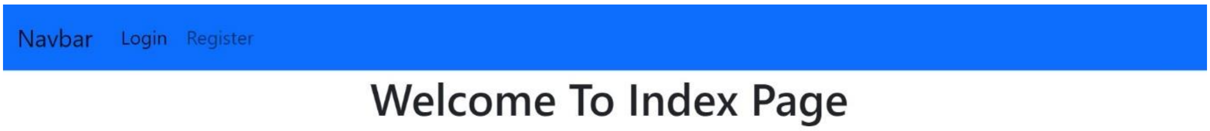
TASK-3 Create JSP files

index.jsp

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Welcome to App</title>
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.1/dist/css/bootstra
p.min.css" rel="stylesheet" integrity="sha384-
+0n0xVW2eSR5OomGNYDnhzAbDsOXxcvSN1TPprVMTNDbiYZCxYbOOl7+AMvyTG2x"
crossorigin="anonymous">
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.1/dist/js/bootstrap.
bundle.min.js" integrity="sha384-
```

```
gtEjrD/SeCtmISkJkNUaaKMoLD0//ElJ19smozuHV6z3Iehds+3Ulb9Bn9Plx0x4"
crossorigin="anonymous"></script>
</head>
<body>

<nav class="navbar navbar-expand-lg navbar-light bg-primary">
  <div class="container-fluid">
    <a class="navbar-brand" href="#">Navbar</a>
    <button class="navbar-toggler" type="button" data-bs-
toggle="collapse" data-bs-target="#navbarSupportedContent" aria-
controls="navbarSupportedContent" aria-expanded="false" aria-
label="Toggle navigation">
      <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse"
id="navbarSupportedContent">
      <ul class="navbar-nav me-auto mb-2 mb-lg-0">
        <li class="nav-item">
          <a class="nav-link active" aria-current="page"
href="Login.jsp">Login</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="Register.jsp">Register</a>
        </li>

      </ul>

    </div>
  </div>
</nav>
<center>
      <h1> Welcome to Index Page </h1>
</center>
</body>
</html>
```

OUTPUT



Navbar Login Register

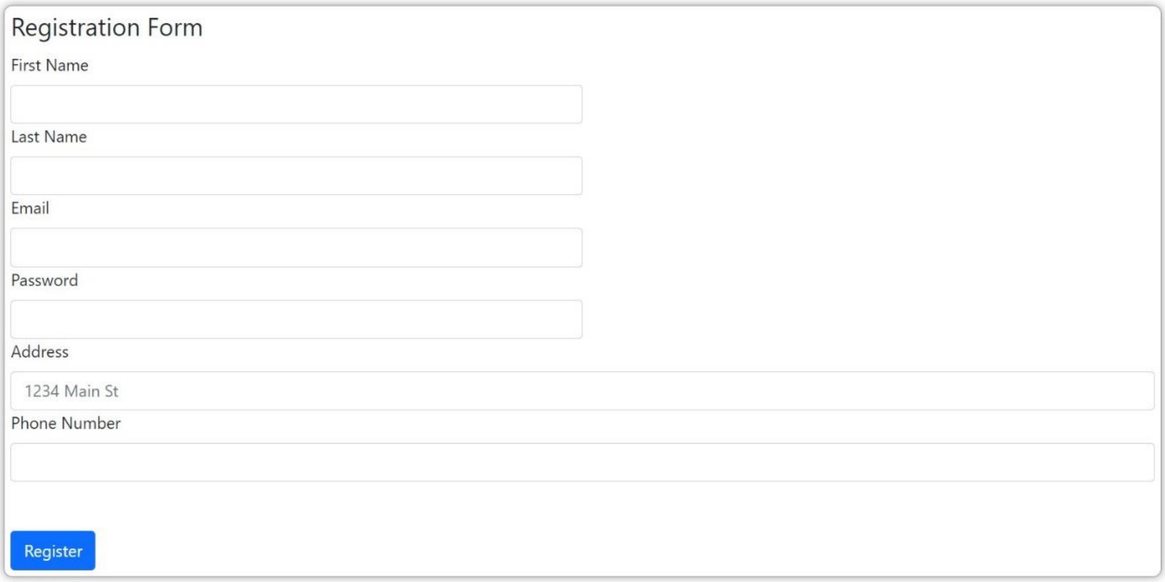
Welcome To Index Page

Register.jsp

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Welcome to App</title>
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.1/dist/css/bootstra
p.min.css" rel="stylesheet" integrity="sha384-
+0n0xVW2eSR5OomGNYDnhzAbDsOXxcvSN1TPprVMTNDbiYZCxYbOOl7+AMvyTG2x"
crossorigin="anonymous">
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.1/dist/js/bootstrap.
bundle.min.js" integrity="sha384-
gtEjrD/SeCtmISkJkNUaaKMoLD0//ElJ19smozuHV6z3Iehds+3Ulb9Bn9Plx0x4"
crossorigin="anonymous"></script>
</head>
<body>

<nav class="navbar navbar-expand-lg navbar-light bg-primary">
  <div class="container-fluid">
    <a class="navbar-brand" href="#">Navbar</a>
    <button class="navbar-toggler" type="button" data-bs-
toggle="collapse" data-bs-target="#navbarSupportedContent" aria-
controls="navbarSupportedContent" aria-expanded="false" aria-
label="Toggle navigation">
      <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse"
id="navbarSupportedContent">
      <ul class="navbar-nav me-auto mb-2 mb-lg-0">
        <li class="nav-item">
          <a class="nav-link active" aria-current="page"
href="Login.jsp">Login</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="Register.jsp">Register</a>
        </li>

      </ul>

    </div>
  </div>
</nav>


<center>
```

```
      <h1>Welcome To Index Page</h1>
</center>


</body>
</html>
```

OUTPUT



Registration Form

First Name

Last Name

Email

Password

Address

1234 Main St

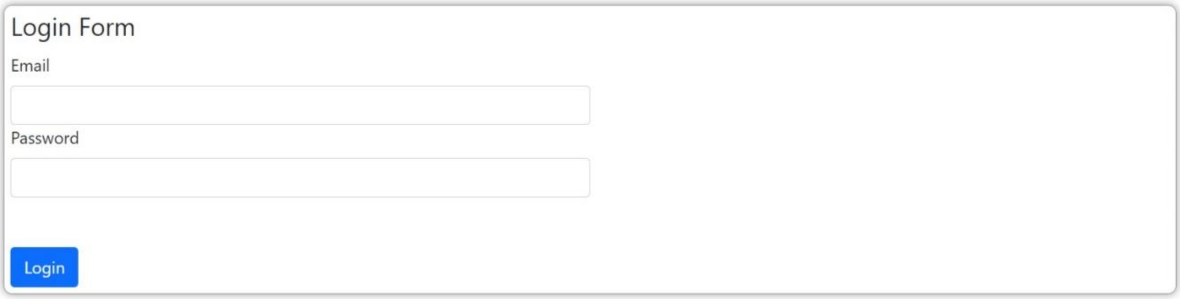
Phone Number

Login.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Login Page</title>
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-+0n0xVW2eSR5OomGNYDnhzAbDsOXxcvSN1TPprVMTNDbiYZCxYbOOl7+AMvyTG2x"
crossorigin="anonymous">
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.1/dist/js/bootstrap.bundle.min.js" integrity="sha384-gtEjrD/SeCtmISkJkNUaaKMoLD0//ElJ19smozuHV6z3Iehds+3Ulb9Bn9Plx0x4"
crossorigin="anonymous"></script>

</head>
<body>
div class="container">
```

```
<form class="row g-3 mt-3" method="post" action="LoginServlet">

 <fieldset style="border:1px solid #999; border-radius:8px; box-
shadow:0 0 8px #999;padding:6px;">
  <legend style="text-align: left;margin-top:-5px;">Login
Form</legend>


  <div class="col-md-6">
    <label for="inputEmail4" class="form-label">Email</label>
    <input type="email" class="form-control" id="inputEmail4"
name="email">
  </div>
  <div class="col-md-6">
    <label for="inputPassword4" class="form-label">Password</label>
    <input type="password" class="form-control" id="inputPassword4"
name="password">
  </div>




  <div class="col-12 mt-5">
    <button type="submit" class="btn btn-primary">Login</button>
  </div>
  </fieldset>
</form>
</div>
</body>
</html>
```

OUTPUT



TASK-4 Create servlet for submitting registration detail

```
package com.brainy_beam.ahmlive.registration;

import java.io.IOException;
import java.io.PrintWriter;

import com.brainy_beam.ahmlive.db.DatabaseConnectionUtil;
import com.brainy_beam.ahmlive.db.UserManager;
import com.brainy_beam.ahmlive.entity.User;

import jakarta.servlet.RequestDispatcher;
import jakarta.servlet.ServletException;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;

@WebServlet("/RegistrationServlet")
public class RegistrationServlet extends HttpServlet {
      private static final long serialVersionUID = 1L;
      public RegistrationServlet() {

      }

      protected void doGet(HttpServletRequest request,
HttpServletResponse response)
                  throws ServletException, IOException {
            response.getWriter().append("Served at:
").append(request.getContextPath());
      }

      protected void doPost(HttpServletRequest request,
HttpServletResponse response)
                  throws ServletException, IOException {

            User userObj=new User();
            userObj.setFname(request.getParameter("fname"));
            userObj.setLname(request.getParameter("lname"));
            userObj.setPassword(request.getParameter("password"));
            userObj.setEmail(request.getParameter("email"));
            userObj.setAddress(request.getParameter("address"));

      userObj.setPhoneNumber(request.getParameter("phoneNumber"));


            if(userObj.getFname().trim().equals("")) {
```

```
            request.setAttribute("error","Seomething went wrong
");
            RequestDispatcher
dispatcher=request.getRequestDispatcher(request.getContextPath()+"/R
egister.jsp");
            dispatcher.include(request, response);
            return;
        }

        try  {
            boolean issucess=new
UserManager().registerUser(userObj);
            if(issucess) {
                RequestDispatcher
dispatcher=request.getRequestDispatcher(+/Login.jsp");
                dispatcher.forward(request, response);
            }
            else {
                PrintWriter out=response.getWriter();
                out.print("Invalid email and password");
                out.close();

//              response.getWriter().append("Seomething went
wrong ").append(request.getContextPath());
                RequestDispatcher
dispatcher=request.getRequestDispatcher("/Register.jsp");
                dispatcher.include(request, response);
            }
        }

        catch (Exception e) {

            e.printStackTrace();
        }
    }




}
```

TASK-5 Create class for holding the user registration details

User.java

```
package com.brainy_beam.ahmlive.entity;

public class User {
	String fname;
	String lname;
	String password;
	String email;
	String phoneNumber;
	String address;
	int id;
	public int getId() {
		return id;
	}

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

	public User(String fname, String lname, String password,
String email, String phoneNumber, String address) {
		this.fname = fname;
		this.lname = lname;
		this.password = password;
		this.email = email;
		this.phoneNumber = phoneNumber;
		this.address = address;
	}

	public User() {}

	public String getFname() {
		return fname;
	}
	public void setFname(String fname) {
		this.fname = fname;
	}
	public String getLname() {
		return lname;
```

```
    }
    public void setLname(String lname) {
        this.lname = lname;
    }
    public String getPassword() {
        return password;
    }
    public void setPassword(String password) {
        this.password = password;
    }
    public String getEmail() {
        return email;
    }
    public void setEmail(String email) {
        this.email = email;
    }
    public String getPhoneNumber() {
        return phoneNumber;
    }
    public void setPhoneNumber(String phoneNumber) {
        this.phoneNumber = phoneNumber;
    }
    public String getAddress() {
        return address;
    }
    public void setAddress(String address) {
        this.address = address;
    }
}
```

TASK-6 Read about JSTL and JSP

What is JSTL?

The JSP Standard Tag Library (JSTL) represents a set of tags to simplify the JSP development.

Advantage of JSTL

1. Fast Development JSTL provides many tags that simplify the JSP.
2. Code Reusability We can use the JSTL tags on various pages.
3. No need to use scriptlet tag It avoids the use of scriptlet tag.

What is JSP?

JavaServer Pages (JSP) is a technology for developing Webpages that supports dynamic content. This helps developers insert java code in HTML pages by making use of special JSP tags, most of which start with <% and end with %>.

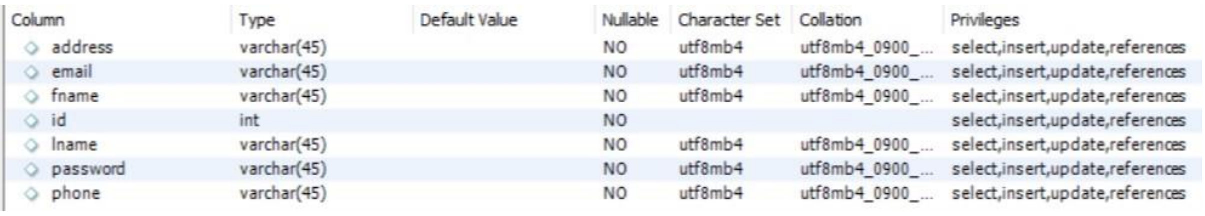
A JavaServer Pages component is a type of Java servlet that is designed to fulfill the role of a user interface for a Java web application. Web developers write JSPs as text files that combine HTML or XHTML code, XML elements, and embedded JSP actions and commands.

Using JSP, you can collect input from users through Webpage forms, present records from a database or another source, and create Webpages dynamically.

JSP tags can be used for a variety of purposes, such as retrieving information from a database or registering user preferences, accessing JavaBeans components, passing control between pages, and sharing information between requests, pages etc.

DAY-3

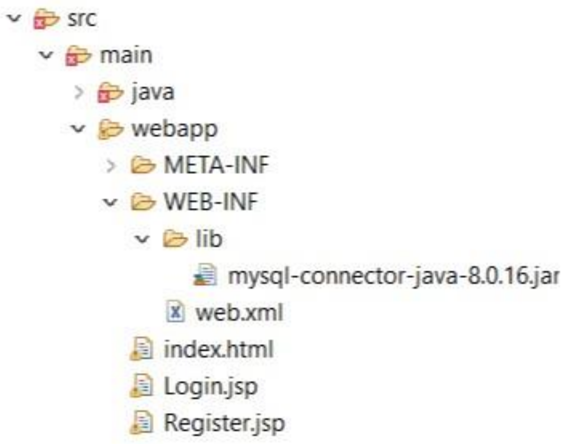
TASK-1 Create a Table in Mysql workbench.



Column	Type	Default Value	Nullable	Character Set	Collation	Privileges
address	varchar(45)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
email	varchar(45)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
fname	varchar(45)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
id	int		NO			select,insert,update,references
lname	varchar(45)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
password	varchar(45)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
phone	varchar(45)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references

TASK-2

Download DB connector java jar file and import it to project folder and also add it to web-inf/lib.



```
src
  main
    java
    webapp
      META-INF
      WEB-INF
        lib
          mysql-connector-java-8.0.16.jar
        web.xml
      index.html
      Login.jsp
      Register.jsp
```

TASK-3

Add DBConnection file so that we can store the data to Mysql Workbench.

DatabaseConnectionUtil.java

```
package com.brainy_beam.ahmlive.db;
import com.brainy_beam.ahmlive.entity.User;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;


public class DatabaseConnectionUtil {
            static Connection connectionObj=null;

            public static Connection getConnection() throws
Exception{
                      String
url="jdbc:mysql://localhost:3306/javaproject";
                      String uname="root";
                      String pass="sau$$@@X";

                if(connectionObj==null) {
                 Class.forName("com.mysql.cj.jdbc.Driver");

     connectionObj=DriverManager.getConnection(url,uname,pass);
                }


                else if(!connectionObj.isClosed()) {
                      return connectionObj;
                }
                else {
                       Class.forName("com.mysql.cj.jdbc.Driver");

     connectionObj=DriverManager.getConnection(url,uname,pass);
                }

                return connectionObj;


                }
                public static void main(String[] args) throws
Exception  {

                     getConnection();

                }
}
```

TASK-4

Get the user entered data from registration page and store it to User Object.

RegistrationServlet.java

```
package com.brainy_beam.ahmlive.registration;

import java.io.IOException;
import java.io.PrintWriter;

import com.brainy_beam.ahmlive.db.DatabaseConnectionUtil;
import com.brainy_beam.ahmlive.db.UserManager;
import com.brainy_beam.ahmlive.entity.User;

import jakarta.servlet.RequestDispatcher;
import jakarta.servlet.ServletException;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;

@WebServlet("/RegistrationServlet")
public class RegistrationServlet extends HttpServlet {
     private static final long serialVersionUID = 1L;
     public RegistrationServlet() {

     }
     protected void doGet(HttpServletRequest request,
HttpServletResponse response)
                throws ServletException, IOException {
           response.getWriter().append("Served at:
").append(request.getContextPath());
     }

     protected void doPost(HttpServletRequest request,
HttpServletResponse response)
                throws ServletException, IOException {

           User userObj=new User();
           userObj.setFname(request.getParameter("fname"));
           userObj.setLname(request.getParameter("lname"));
           userObj.setPassword(request.getParameter("password"));
           userObj.setEmail(request.getParameter("email"));
           userObj.setAddress(request.getParameter("address"));

     userObj.setPhoneNumber(request.getParameter("phoneNumber"));

           try  {
                boolean issuccess=new
UserManager().registerUser(userObj);
                if(issuccess) {
                      RequestDispatcher
dispatcher=request.getRequestDispatcher("/Login.jsp");
                      dispatcher.forward(request, response);
                }
                else {
                      PrintWriter out=response.getWriter();
                      out.print("Invalid email and password");
                      out.close();

//                    response.getWriter().append("Seomething went
wrong ").append(request.getContextPath());
                      RequestDispatcher
dispatcher=request.getRequestDispatcher("/Register.jsp");
                      dispatcher.include(request, response);
                }
           }

           catch (Exception e) {

                e.printStackTrace();
           }
     }


}
```

INSERT data to database which we get from RegistartionServlet.java

UserManager.java

```
package com.brainy_beam.ahmlive.db;
import java.sql.SQLException;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;
import com.brainy_beam.ahmlive.entity.User;
public class UserManager {
public boolean registerUser(User user) throws
SQLException,Exception{
		String query="insert into
user_table(fname,lname,password,email,address,phone)
values('"+user.getFname()+"','"+user.getLname()+"','"+user.getPasswo
rd()+"','"+user.getEmail()+"','"+user.getAddress()+"','"+user.getPho
neNumber()+"')";
		Statement
st=DatabaseConnectionUtil.getConnection().createStatement();

		int isSuccess=st.executeUpdate(query);
		if(isSuccess>0) {
			System.out.print("true");
			return true;
		}
		else {
			throw new Exception();
		}
	}
}
```

TASK-5 Create Login jsp and Servlet and validate User input with db.

Login.jsp

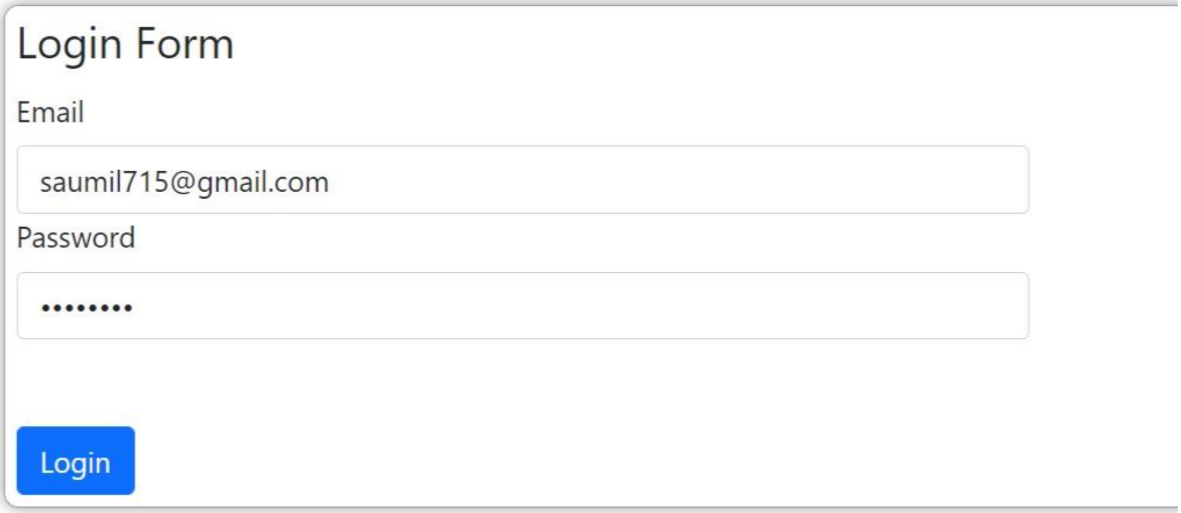
```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Login Page</title>
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.1/dist/css/bootstra
p.min.css" rel="stylesheet" integrity="sha384-
+0n0xVW2eSR5OomGNYDnhzAbDsOXxcvSN1TPprVMTNDbiYZCxYbOOl7+AMvyTG2x"
crossorigin="anonymous">
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.1/dist/js/bootstrap.
bundle.min.js" integrity="sha384-
gtEjrD/SeCtmISkJkNUaaKMoLD0//ElJ19smozuHV6z3Iehds+3Ulb9Bn9Plx0x4"
crossorigin="anonymous"></script>

</head>
<body>
<div class="container">
<form class="row g-3 mt-3"  method="post" action="LoginServlet">

 <fieldset style="border:1px solid #999; border-radius:8px; box-
shadow:0 0 8px #999;padding:6px;">
  <legend style="text-align: left;margin-top:-5px;">Login
Form</legend>


  <div class="col-md-6">
    <label for="inputEmail4" class="form-label">Email</label>
    <input type="email" class="form-control" id="inputEmail4"
name="email">
  </div>
  <div class="col-md-6">
    <label for="inputPassword4" class="form-label">Password</label>
    <input type="password" class="form-control" id="inputPassword4"
name="password">
  </div>

  <div class="col-12 mt-5">
    <button type="submit" class="btn btn-primary">Login</button>
  </div>
  </fieldset>
</form>
</div>
</body>
</html>
```

Login Servlet

```
package com.brainy_beam.ahmlive.registration;

import java.io.IOException;
import java.io.PrintWriter;
import java.sql.SQLException;
import com.brainy_beam.ahmlive.db.UserManager;
import com.brainy_beam.ahmlive.entity.User;

import jakarta.servlet.RequestDispatcher;
import jakarta.servlet.ServletException;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletResponse;
import jakarta.servlet.http.HttpServletRequest;


@WebServlet("/LoginServlet")
public class LoginServlet extends HttpServlet {

     private static final long serialVersionUID = 1L;


    public LoginServlet() {

    }

     protected void doGet(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
           response.getWriter().append("Served at:
").append(request.getContextPath());
     }
    protected void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {


        String email=request.getParameter("email");
        String password=request.getParameter("password");
        try {
            User user=new UserManager().getUserByEmail(email);
            if(user.getPassword().equals(password)) {
                System.out.print("Valid email and password");
            }
            else {

                System.out.print("Invalid email and
password");
            }

        }
        catch(SQLException e) {
            e.printStackTrace();
        }
        catch(Exception e) {
            e.printStackTrace();
        }

    }
}
```

GET USER FROM DB THROUGH EMAIL

```
public User getUserByEmail(String email) throws
Exception,SQLException{

        Statement
st=DatabaseConnectionUtil.getConnection().createStatement();
        ResultSet rs=st.executeQuery("Select * from user_table
where email='"+email+"'");
        User user=new User();
        while(rs.next()) {
            user.setEmail(rs.getString("email"));
            user.setFname(rs.getString("fname"));
            user.setLname(rs.getString("lname"));

            user.setPhoneNumber(rs.getString("phone"));
            user.setAddress(rs.getString("address"));
            user.setPassword(rs.getString("password"));
//          System.out.print(user.getPassword());
            user.setEmail(rs.getString("email"));
            user.setId(rs.getInt("id"));
        }
        return user;

    }
```



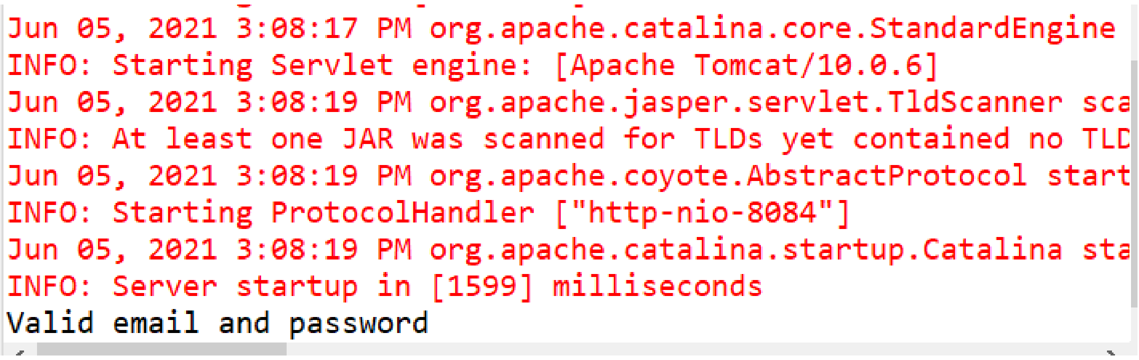
Login Form

Email

saumil715@gmail.com

Password

••••••••



```
Jun 05, 2021 3:08:17 PM org.apache.catalina.core.StandardEngine
INFO: Starting Servlet engine: [Apache Tomcat/10.0.6]
Jun 05, 2021 3:08:19 PM org.apache.jasper.servlet.TldScanner sca
INFO: At least one JAR was scanned for TLDs yet contained no TLD
Jun 05, 2021 3:08:19 PM org.apache.coyote.AbstractProtocol start
INFO: Starting ProtocolHandler ["http-nio-8084"]
Jun 05, 2021 3:08:19 PM org.apache.catalina.startup.Catalina sta
INFO: Server startup in [1599] milliseconds
Valid email and password
```

DAY-4

TASK-1

After Registration and storing data to db we want the user to redirect to Login page .

Registration.java

```
package com.brainy_beam.ahmlive.registration;

import java.io.IOException;
import java.io.PrintWriter;

import com.brainy_beam.ahmlive.db.DatabaseConnectionUtil;
import com.brainy_beam.ahmlive.db.UserManager;
import com.brainy_beam.ahmlive.entity.User;

import jakarta.servlet.RequestDispatcher;
import jakarta.servlet.ServletException;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;

@WebServlet("/RegistrationServlet")
public class RegistrationServlet extends HttpServlet {
     private static final long serialVersionUID = 1L;
     public RegistrationServlet() {

     }

     protected void doGet(HttpServletRequest request, 
HttpServletResponse response)
                throws ServletException, IOException {
           response.getWriter().append("Served at: 
").append(request.getContextPath());
     }

     protected void doPost(HttpServletRequest request, 
HttpServletResponse response)
                throws ServletException, IOException {
```

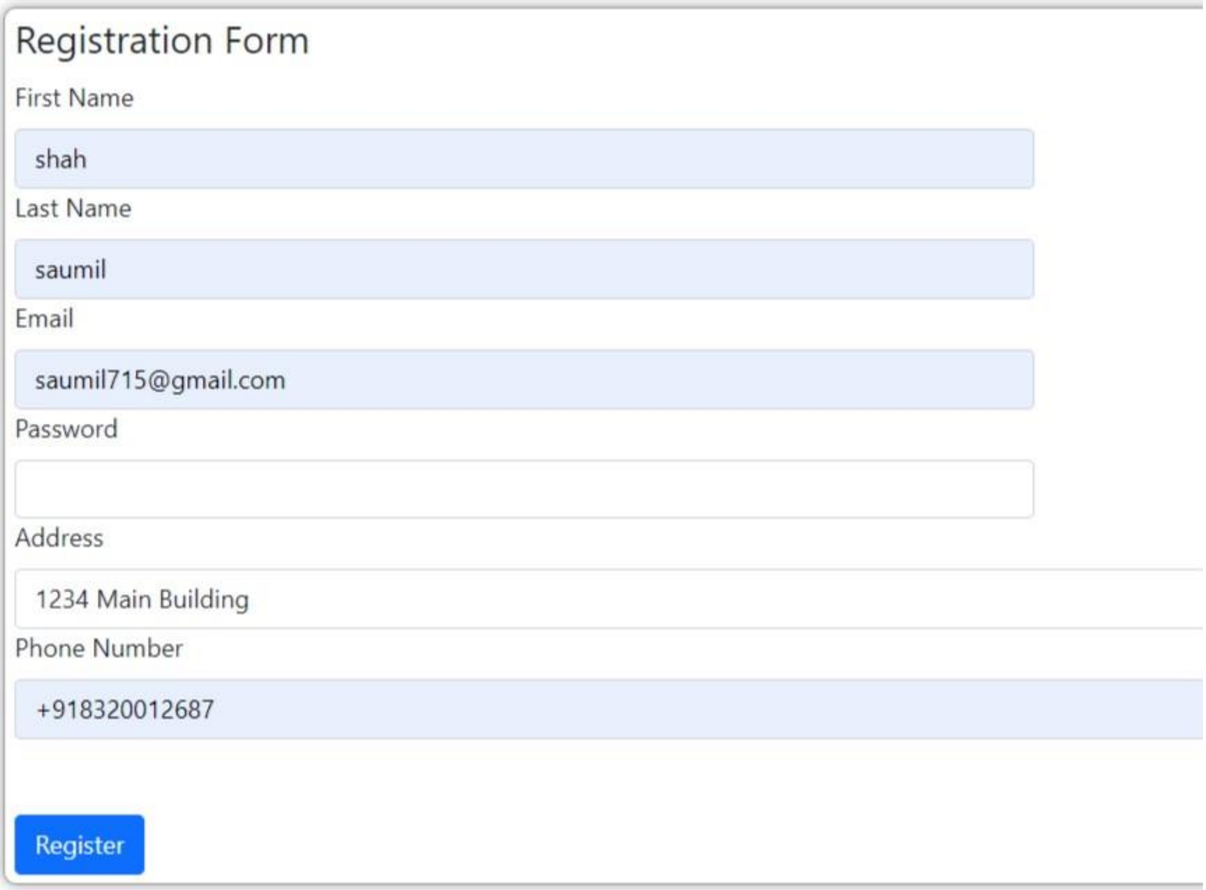
```
        User userObj=new User();
        userObj.setFname(request.getParameter("fname"));
        userObj.setLname(request.getParameter("lname"));
        userObj.setPassword(request.getParameter("password"));
        userObj.setEmail(request.getParameter("email"));
        userObj.setAddress(request.getParameter("address"));

    userObj.setPhoneNumber(request.getParameter("phoneNumber"));


        if(userObj.getFname().trim().equals("")) {
            request.setAttribute("error","Seomething went wrong
");
            RequestDispatcher
dispatcher=request.getRequestDispatcher(request.getContextPath()+"/R
egister.jsp");
            dispatcher.include(request, response);
            return;
        }

        try  {
            boolean issucess=new
UserManager().registerUser(userObj);
            if(issucess) {
                RequestDispatcher
dispatcher=request.getRequestDispatcher("/Login.jsp");
                dispatcher.forward(request, response);
            }
            else {
                PrintWriter out=response.getWriter();
                out.print("Invalid email and password");
                out.close();

                response.getWriter().append("Seomething went
wrong ").append(request.getContextPath());
                RequestDispatcher
dispatcher=request.getRequestDispatcher("/Register.jsp");
                dispatcher.include(request, response);
            }
        }

        catch (Exception e) {

            e.printStackTrace();
        }
    }

    }
```

TASK-2
Add validation registration value.

```
package com.brainy_beam.ahmlive.registration;

import java.io.IOException;
import java.io.PrintWriter;

import com.brainy_beam.ahmlive.db.DatabaseConnectionUtil;
import com.brainy_beam.ahmlive.db.UserManager;
import com.brainy_beam.ahmlive.entity.User;

import jakarta.servlet.RequestDispatcher;
import jakarta.servlet.ServletException;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;

@WebServlet("/RegistrationServlet")
public class RegistrationServlet extends HttpServlet {
      private static final long serialVersionUID = 1L;
      public RegistrationServlet() {

      }

      protected void doGet(HttpServletRequest request,
HttpServletResponse response)
                throws ServletException, IOException {
           response.getWriter().append("Served at:
").append(request.getContextPath());
      }

      protected void doPost(HttpServletRequest request,
HttpServletResponse response)
                throws ServletException, IOException {

           User userObj=new User();
           userObj.setFname(request.getParameter("fname"));
           userObj.setLname(request.getParameter("lname"));
           userObj.setPassword(request.getParameter("password"));
           userObj.setEmail(request.getParameter("email"));
           userObj.setAddress(request.getParameter("address"));

      userObj.setPhoneNumber(request.getParameter("phoneNumber"));
```

```
           if(userObj.getFname().trim().equals("")) {
                request.setAttribute("error","First name can't be 
empty ");
                RequestDispatcher 
dispatcher=request.getRequestDispatcher(request.getContextPath()+"/R
egister.jsp");
                dispatcher.include(request, response);
                return;
           }

           if(userObj.getLname().trim().equals("")) {
                request.setAttribute("error","Last name can't be 
empty");
                RequestDispatcher 
dispatcher=request.getRequestDispatcher(request.getContextPath()+"/R
egister.jsp");
                dispatcher.include(request, response);
                return;
           }

           if(userObj.getEmail().trim().equals("")) {
                request.setAttribute("error","Email can't be empty 
");
                RequestDispatcher 
dispatcher=request.getRequestDispatcher(request.getContextPath()+"/R
egister.jsp");
                dispatcher.include(request, response);
                return;
           }

           if(userObj.getPhoneNumber().trim().equals("")) {
                request.setAttribute("error","Phone Number can't be 
Empty ");
                RequestDispatcher 
dispatcher=request.getRequestDispatcher(request.getContextPath()+"/R
egister.jsp");
                dispatcher.include(request, response);
                return;
           }

           if(userObj.getPassword().trim().equals("")) {
                request.setAttribute("error","Password  can't be 
empty ");
                RequestDispatcher 
dispatcher=request.getRequestDispatcher(request.getContextPath()+"/R
egister.jsp");
                dispatcher.include(request, response);
                return;
           }
           if(userObj.getAddress().trim().equals("")) {
                request.setAttribute("error","Address can't be empty
");
                RequestDispatcher
dispatcher=request.getRequestDispatcher(request.getContextPath()+"/R
egister.jsp");
                dispatcher.include(request, response);
                return;
           }

           try  {
                boolean issucess=new
UserManager().registerUser(userObj);
                if(issucess) {
                     RequestDispatcher
dispatcher=request.getRequestDispatcher("/Login.jsp");
                     dispatcher.forward(request, response);
                }
                else {

                     response.getWriter().append("Seomething went
wrong ").append(request.getContextPath());
                     RequestDispatcher
dispatcher=request.getRequestDispatcher("/Register.jsp");
                     dispatcher.include(request, response);
                }
           }

           catch (Exception e) {

                e.printStackTrace();
           }
      }

}
```

OUTPUT



Registration Form

First Name

shah

Last Name

saumil

Email

saumil715@gmail.com

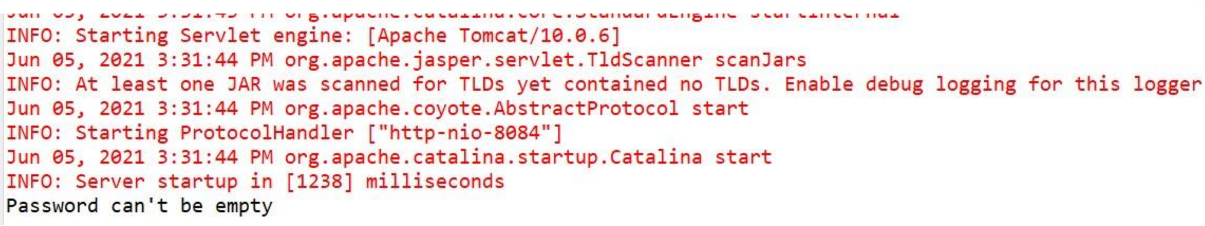
Password

Address

1234 Main Building

Phone Number

+918320012687



```
Jun 05, 2021 3:31:43 PM org.apache.catalina.core.StandardEngine startInternal
INFO: Starting Servlet engine: [Apache Tomcat/10.0.6]
Jun 05, 2021 3:31:44 PM org.apache.jasper.servlet.TldScanner scanJars
INFO: At least one JAR was scanned for TLDs yet contained no TLDs. Enable debug logging for this logger
Jun 05, 2021 3:31:44 PM org.apache.coyote.AbstractProtocol start
INFO: Starting ProtocolHandler ["http-nio-8084"]
Jun 05, 2021 3:31:44 PM org.apache.catalina.startup.Catalina start
INFO: Server startup in [1238] milliseconds
Password can't be empty
```

TASK-3

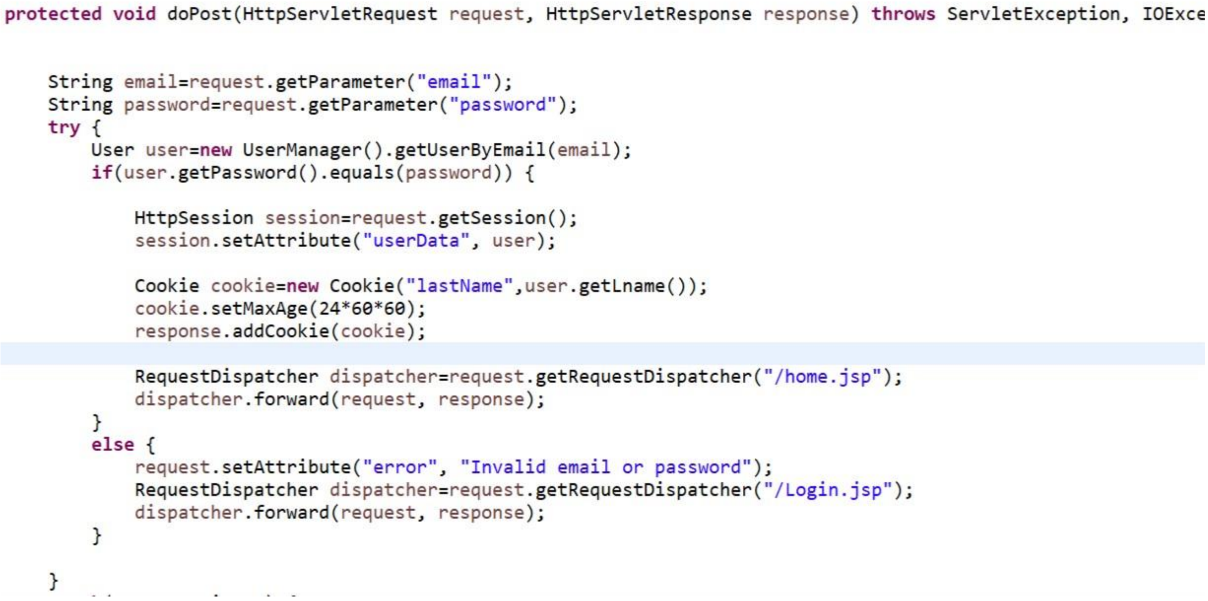
Add validation to login page and after validation redirect to home page.

Login.jsp

```
package com.brainy_beam.ahmlive.registration;

import java.io.IOException;
import java.io.PrintWriter;
import java.sql.SQLException;
import com.brainy_beam.ahmlive.db.UserManager;
import com.brainy_beam.ahmlive.entity.User;

import jakarta.servlet.RequestDispatcher;
import jakarta.servlet.ServletException;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletResponse;
import jakarta.servlet.http.HttpServletRequest;


@WebServlet("/LoginServlet")
public class LoginServlet extends HttpServlet {

     private static final long serialVersionUID = 1L;


    public LoginServlet() {

    }

     protected void doGet(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
           response.getWriter().append("Served at:
").append(request.getContextPath());
     }

     protected void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {


           String email=request.getParameter("email");
           String password=request.getParameter("password");
           try {
                User user=new UserManager().getUserByEmail(email);
                if(user.getPassword().equals(password)) {
                     RequestDispatcher
dispatcher=request.getRequestDispatcher("/home.jsp");
                     dispatcher.forward(request, response);
                }
                else {
                     request.setAttribute("error", "Invalid email
or password");
                     RequestDispatcher
dispatcher=request.getRequestDispatcher("/Login.jsp");
                     dispatcher.forward(request, response);
                }

           }
           catch(SQLException e) {
                e.printStackTrace();
           }
           catch(Exception e) {
                e.printStackTrace();
           }

      }
}
```

DAY-5

TASK-1 Create a demo of cookie and http session.



```
protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOExce

    String email=request.getParameter("email");
    String password=request.getParameter("password");
    try {
        User user=new UserManager().getUserByEmail(email);
        if(user.getPassword().equals(password)) {

            HttpSession session=request.getSession();
            session.setAttribute("userData", user);

            Cookie cookie=new Cookie("lastName",user.getLname());
            cookie.setMaxAge(24*60*60);
            response.addCookie(cookie);

            RequestDispatcher dispatcher=request.getRequestDispatcher("/home.jsp");
            dispatcher.forward(request, response);
        }
        else {
            request.setAttribute("error", "Invalid email or password");
            RequestDispatcher dispatcher=request.getRequestDispatcher("/Login.jsp");
            dispatcher.forward(request, response);
        }

    }
```

TASK-2 Prevent User to Access the Home page or any other after logout

Home.jsp

```
<%@ page import="com.brainy_beam.ahmlive.entity.User" %>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.1/dist/css/bootstra
p.min.css" rel="stylesheet" integrity="sha384-
+0n0xVW2eSR5OomGNYDnhzAbDsOXxcvSN1TPprVMTNDbiYZCxYbOOl7+AMvyTG2x"
crossorigin="anonymous">
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.1/dist/js/bootstrap.
bundle.min.js" integrity="sha384-
```

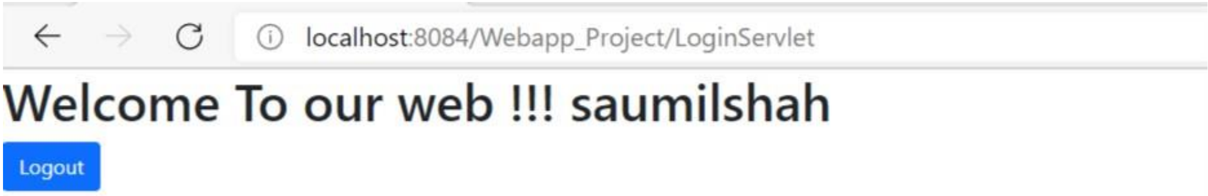
```
gtEjrD/SeCtmISkJkNUaaKMoLD0//ElJ19smozuHV6z3Iehds+3Ulb9Bn9Plx0x4"
crossorigin="anonymous"></script>

<title>Insert title here</title>
</head>
<body>
<%response.setHeader("cache-control", "no-cache,no-store,must-
revalidate");
%>
<%
     HttpSession sessionObj=request.getSession(false);
     User user=new User();
     if(sessionObj.getAttribute("userData")!=null){
           user=(User)sessionObj.getAttribute("userData");
     }
     else{

     response.sendRedirect(request.getContextPath()+"/Login.jsp");
     }

     Cookie[] cookie=request.getCookies();
     String lastName="";
     for(int i=0;i<cookie.length;i++){
           if(cookie[i].getName().equals("lastName") &&
cookie[i].getValue()!=null){
                lastName=cookie[i].getValue();
           }
     }

%>
<h1>Welcome To our web !!!  <%= lastName %><%= user.getFname()
%></h1>
 <button type="submit" class="btn btn-primary">Logout<a href="<%=
request.getContextPath() %>LogoutServlet"></a></Button>

</body>
</html>
```

LogoutServlet.java

```
Package com.brainy_beam.ahmlive.registration;

import java.io.IOException;
import jakarta.servlet.ServletException;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.Cookie;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import jakarta.servlet.http.HttpSession;


@WebServlet("/LogoutServlet")
public class LogoutServlet extends HttpServlet {
     private static final long serialVersionUID = 1L;

    /**
     * Default constructor.
     */
    public LogoutServlet() {
        // TODO Auto-generated constructor stub
    }

     /**
      * @see HttpServlet#doGet(HttpServletRequest request,
HttpServletResponse response)
      */
     protected void doGet(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
           HttpSession session = request.getSession();
           session.setAttribute("userData", null);
            session.invalidate();
            System.out.println("Inside do Get");

            Cookie[] cookies = request.getCookies();
            for(int i=0;i<cookies.length;i++) {
            cookies[i].setValue(null);
            cookies[i].setMaxAge(0);
            response.addCookie(cookies[i]);
            }


response.sendRedirect(request.getContextPath()+"/Login.jsp");
```

```
     }

     /**
      * @see HttpServlet#doPost(HttpServletRequest request,
HttpServletResponse response)
      */
     protected void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
          // TODO Auto-generated method stub
          doGet(request, response);
     }

}
```

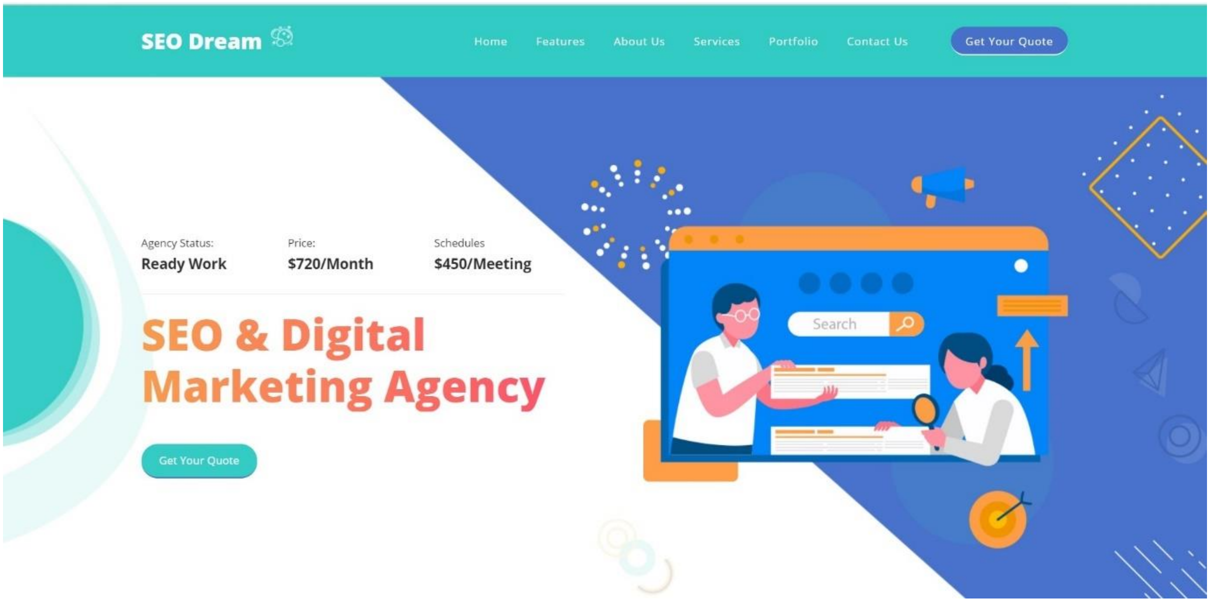
OUTPUT



Welcome To our web !!! saumilshah

DAY-6 Downlaod HTML Template for website.

TASK-1

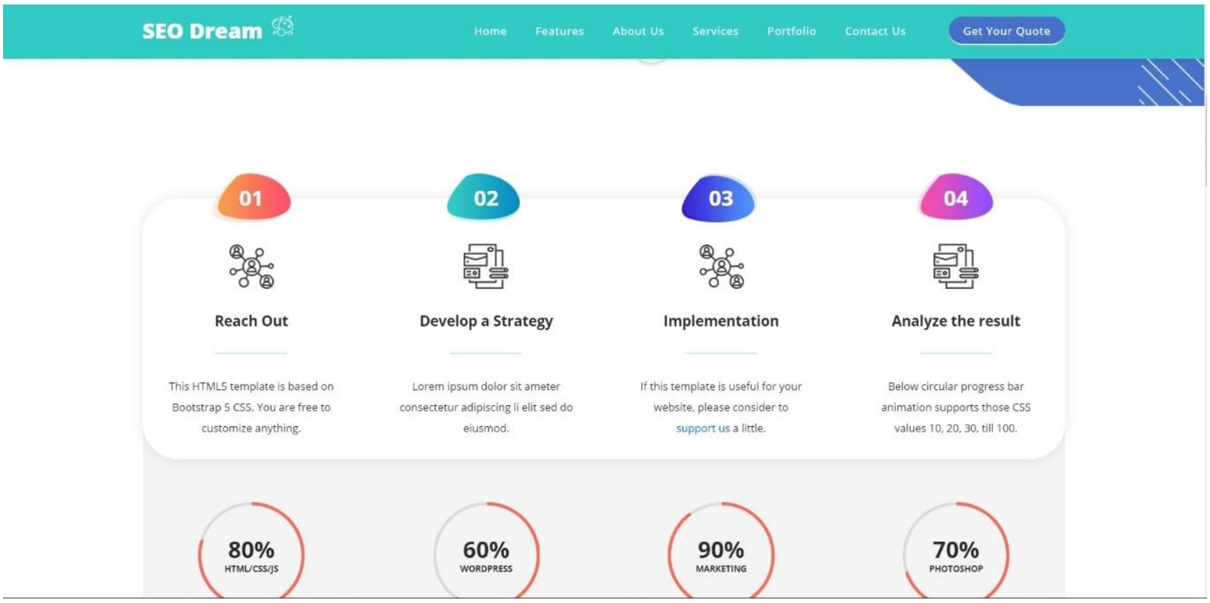


Agency Status: Ready Work

Price: $720/Month

Schedules $450/Meeting

SEO & Digital Marketing Agency



01 Reach Out

This HTML5 template is based on Bootstrap 5 CSS. You are free to customize anything.

02 Develop a Strategy

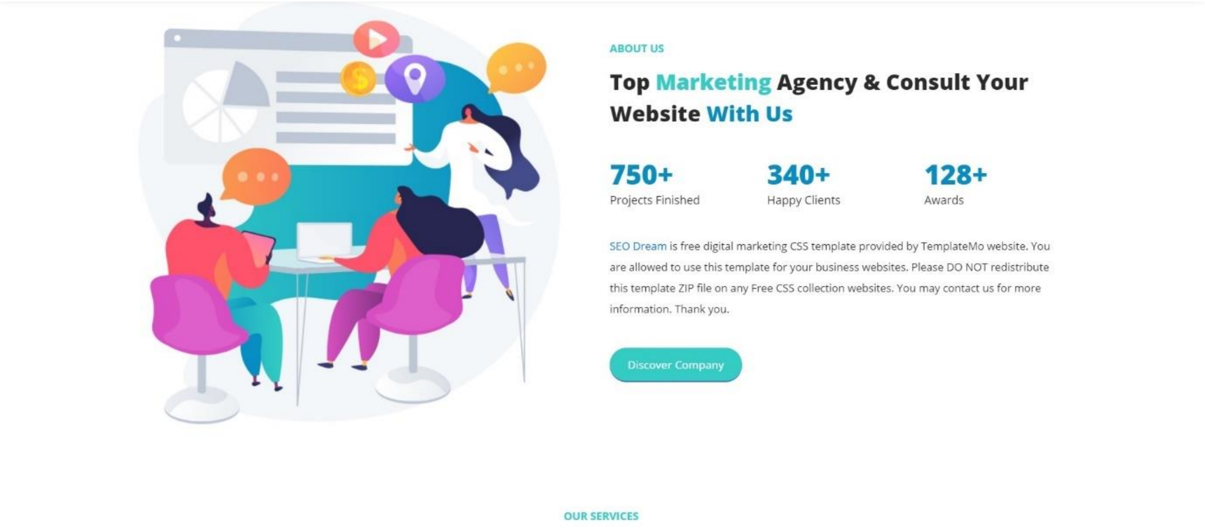
Lorem ipsum dolor sit ameter consectetur adipiscing li elit sed do eiusmod.

03 Implementation

If this template is useful for your website, please consider to support us a little.

04 Analyze the result

Below circular progress bar animation supports those CSS values 10, 20, 30, till 100.



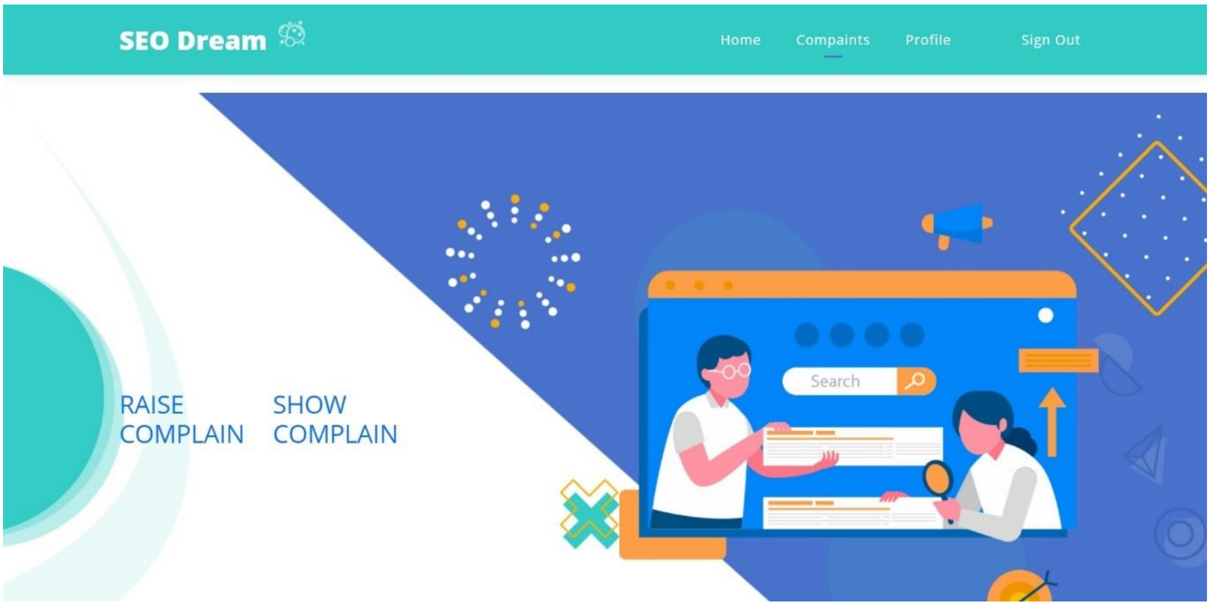
ABOUT US

Top Marketing Agency & Consult Your Website With Us

750+	340+	128+
Projects Finished	Happy Clients	Awards

SEO Dream is free digital marketing CSS template provided by TemplateMo website. You are allowed to use this template for your business websites. Please DO NOT redistribute this template ZIP file on any Free CSS collection websites. You may contact us for more information. Thank you.

TASK-2 Update the Template to make it use for our website



DAY-7

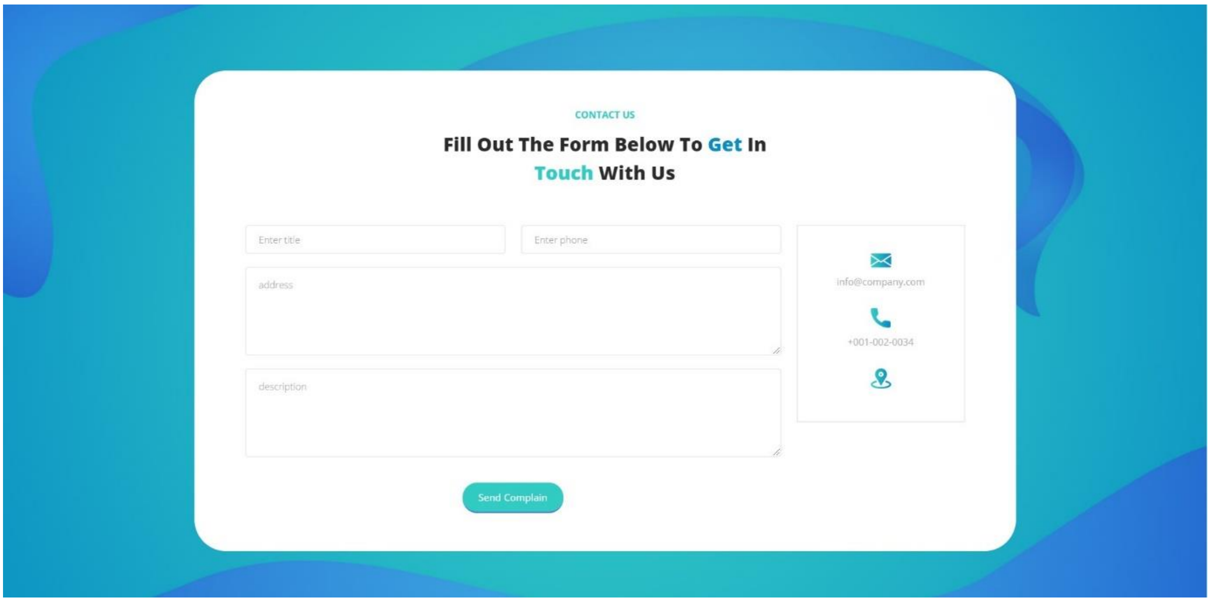
TASK-1 Make Form to submit problem(raise issue).

Complain.jsp

```
<div id="contact" class="contact-us section">
    <div class="container">
      <div class="row">
        <div class="col-lg-12 wow fadeInUp" data-wow-duration="0.5s"
data-wow-delay="0.25s">
          <form id="contact" action="comlainServlet" method="post">
            <div class="row">
              <div class="col-lg-6 offset-lg-3">
                <div class="section-heading">
                  <h6>Contact Us</h6>
                  <h2>Fill Out The Form Below To <span>Get</span> In
<em>Touch</em> With Us</h2>
                </div>
              </div>
              <div class="col-lg-9">
                <div class="row">
                  <div class="col-lg-6">
                    <fieldset>
                      <input type="text" name="title" id="title"
placeholder="Enter title" autocomplete="on" required>
                    </fieldset>
                  </div>

                   <div class="col-lg-6">
                    <fieldset>
                      <input type="text" name="phoneNo" id="phoneNo"
placeholder="Enter phone" autocomplete="on" required>
                    </fieldset>
                  </div>



                  <div class="col-lg-12">
                    <fieldset>
                      <textarea name="address" type="text"
class="form-control" id="address" placeholder="address"
required></textarea>
                    </fieldset>
                  </div>
                   <div class="col-lg-12">
```

```
                    <fieldset>
                      <textarea name="description" type="text"
class="form-control" id="description" placeholder="description"
required></textarea>
                    </fieldset>
                  </div>
                  <div class="col-lg-12">
                    <fieldset>
                      <button type="submit" id="form-submit"
class="main-button ">Send Message Now</button>
                    </fieldset>
                  </div>
                </div>
              </div>
              <div class="col-lg-3">
                <div class="contact-info">
                  <ul>
                    <li>
                      <div class="icon">
                        <img src="assets/images/contact-icon-01.png"
alt="email icon">
                      </div>
                      <a href="#">info@company.com</a>
                    </li>
                    <li>
                      <div class="icon">
                        <img src="assets/images/contact-icon-02.png"
alt="phone">
                      </div>
                      <a href="#">+001-002-0034</a>
                    </li>
                    <li>
                      <div class="icon">
                        <img src="assets/images/contact-icon-03.png"
alt="location">
                      </div>
                      <a href="#">26th Street, Digital Villa</a>
                    </li>
                  </ul>
                </div>
              </div>
            </div>
          </form>
        </div>
      </div>
    </div>
  </div>
```

OUTPUT

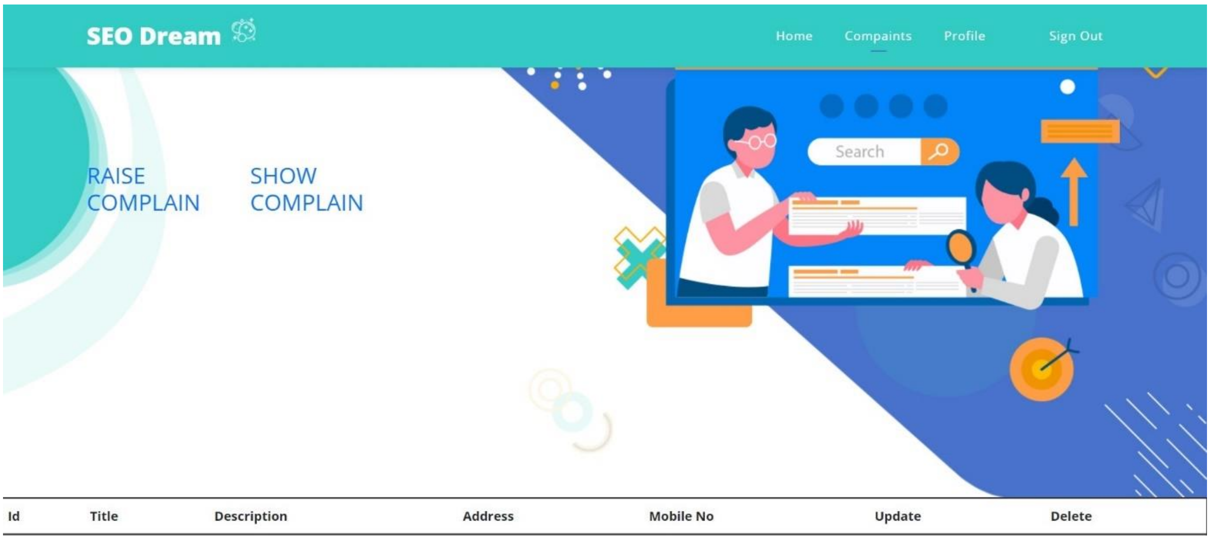


TASK-2 Create Table to see all issue raised by you.

Complain.jsp

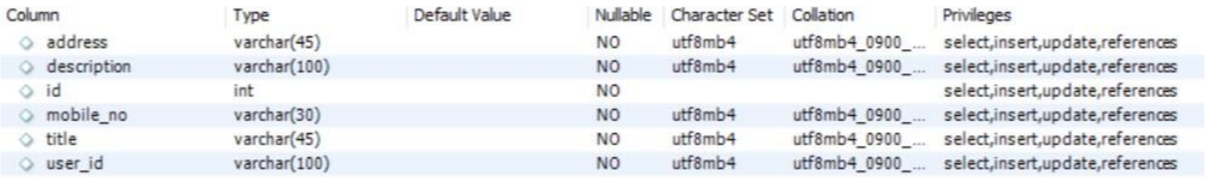
```
<table id="displayComplain" width="100%" cellspacing="10"
cellpadding="10" border="3" align="center">
        <tr>
                <th>Id</th>
                <th>Title</th>
                <th>Description</th>
                <th>Address</th>
                <th>Mobile No</th>
                <th>Update</th>
                <th>Delete</th>
        </tr>

        <% int count=1; %>
        <c:forEach var="complain" items="<%=complainList %>">
                <tr>
                        <td><c:out value="<%= count++ %>"/></td>
                        <td><c:out value="${complain.title}"/></td>
                        <td><c:out value="${complain.description} "/></td>
                        <td><c:out value="${complain.address} "/></td>
                <td><c:out value="${complain.mobileNo} "/></td>
                <td><a href="<%= request.getContextPath()
%>/comlainServlet?id=${complain.id}&action=update">Update</a></td>
                <td><a href="<%= request.getContextPath()
%>/comlainServlet?id=${complain.id}&action=delete">Delete</a></td>
            </tr>
        </c:forEach>
</table>
```

OUTPUT



Id	Title	Description	Address	Mobile No	Update	Delete

TASK-3 Create Complain Table

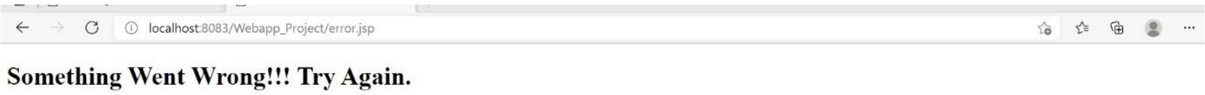


Column	Type	Default Value	Nullable	Character Set	Collation	Privileges
address	varchar(45)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
description	varchar(100)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
id	int		NO			select,insert,update,references
mobile_no	varchar(30)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
title	varchar(45)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
user_id	varchar(100)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references

TASK-4 Create a error.jsp page

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Error</title>
</head>
<body>
<h1>Something Went Wrong!!! Try Again.</h1>
</body>
</html>
```

OUTPUT



Something Went Wrong!!! Try Again.

DAY-8

TASK-1 Create Model for Complains.

Complain.java

```java
package com.brainy_beam.ahmlive.entity;

public class Complain {
	int id;
	int UserId;
	String Title;
	String Description;
	String address;
	String MobileNo;
	public Complain() {

	}
	public int getId() {
		return id;
	}

	public String getMobileNo() {
		return MobileNo;
	}

	public void setId(int id) {
		this.id = id;
	}
	public int getUserId() {
		return UserId;
	}
	public void setUserId(int userId) {
		UserId = userId;
	}
	public String getTitle() {
		return Title;
	}
	public void setTitle(String title) {
		Title = title;
	}
	public String getDescription() {
		return Description;
	}
	public void setDescription(String description) {
		Description = description;
	}
	public String getAddress() {
		return address;
	}
	public void setAddress(String address) {
		this.address = address;
	}
	public void setMobileNo(String phoneNo) {
		MobileNo=phoneNo;
	}

}
```

TASK-2 Create Class which handles database related activity of Complains

Getting all Comlains by UserID

```
package com.brainy_beam.ahmlive.db;

import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import java.util.ArrayList;
import java.util.List;
import com.brainy_beam.ahmlive.entity.Complain;
public class ComplainManagement {

	public List<Complain> getAllComplainByUserId(int userId)
throws SQLException, Exception {
		Statement
statementObj=DatabaseConnectionUtil.getConnection().createStatement(
);
		ResultSet responseData=statementObj.executeQuery("select
* from complain where user_id= "+userId);
		List<Complain>
complainList=getComplainListByResultSet(responseData);
		return complainList;
	}
```

Get UserComplain for Currently Logged in user.

```
	public Complain getComplainById(int id,int userId) throws
Exception {
```

```
            Statement statementObj =
DatabaseConnectionUtil.getConnection().createStatement();
            ResultSet responseData =
statementObj.executeQuery("select * from complain where id = "+id+"
and user_id = "+userId);
            Complain complain = null;
            while(responseData.next()) {
                  complain =
getComplainObjectByResultSet(responseData);
            }
            return complain;
      }
```

Get all Complains.

```
public List<Complain> getAllComplain() throws SQLException,
Exception {
            Statement
statementObj=DatabaseConnectionUtil.getConnection().createStatement(
);
            ResultSet responseData=statementObj.executeQuery("select
* from complain ");
            List<Complain>
complainList=getComplainListByResultSet(responseData);
            return complainList;
       }
```

Get complain by complain_id

```
public Complain getAllComplainById(int id) throws SQLException,
Exception {
            Statement
statementObj=DatabaseConnectionUtil.getConnection().createStatement(
);
            ResultSet responseData=statementObj.executeQuery("select
* from complain where id="+id);
            Complain complain=null;
            while(responseData.next()) {
                  complain=getComplainObjectByResultSet(responseData);
            }
            return complain;
      }
```

Save the complain

```
    private List<Complain>
getComplainListByResultSet(ResultSet responseData) throws
SQLException{
        List<Complain> complainList=new ArrayList<>();
        while(responseData.next()) {
            Complain
obj=getComplainObjectByResultSet(responseData);
            complainList.add(obj);
        }
        return complainList;

    }
```

Get complain Object By Result set

```
private Complain getComplainObjectByResultSet(ResultSet
responseData) throws SQLException {

        Complain obj=new Complain();
        obj.setId(responseData.getInt("id"));
        obj.setUserId(responseData.getInt("user_id"));
        obj.setTitle(responseData.getString("title"));

    obj.setDescription(responseData.getString("descriptio
n"));

    obj.setAddress(responseData.getString("address"));

    obj.setMobileNo(responseData.getString("mobile_no"));
        return obj;
    }
```

Update Complain method

```
public boolean updateComplain(Complain complain) throws
Exception{
        Statement statementObj =
DatabaseConnectionUtil.getConnection().createStatement();
```

```
              int isSuccess = 
statementObj.executeUpdate("update complain set 
title='"+complain.getTitle()+"',description='"+complain.ge
tDescription()+"' ,mobile_no='"+complain.getMobileNo()+"'
,address='"+complain.getAddress()+"' where 
id='"+complain.getId()+"'");
              if(isSuccess > 0) {

                   return true;
              }
              else {

                   return false;
              }
         }
```

TASK-3 Fill the complain form and add data to workbench

For that first make complainServlet.java and

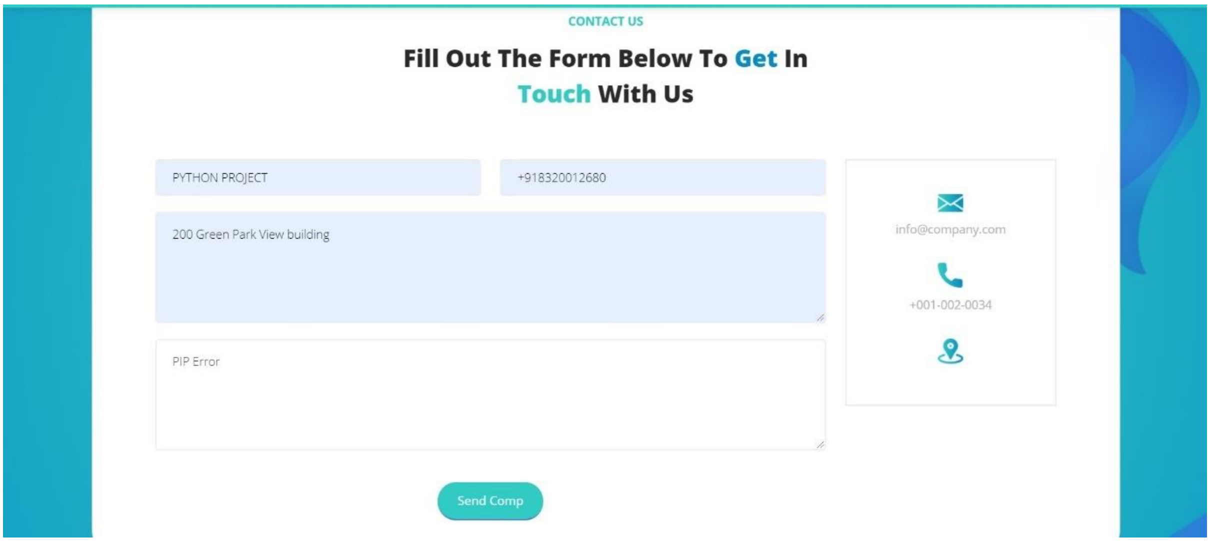
Get the data from form and send the data to Database file to store the data to db.

ComplainServlet.java

```
protected void doPost(HttpServletRequest request, 
HttpServletResponse response) throws ServletException, 
IOException {


         String email=request.getParameter("email");
         String password=request.getParameter("password");
         try {
              User user=new 
UserManager().getUserByEmail(email);
```

```
              if(user.getPassword().equals(password)) {

                   HttpSession
session=request.getSession();
                   session.setAttribute("userData", user);

                   Cookie cookie=new
Cookie("lastName",user.getLname());
                   cookie.setMaxAge(24*60*60);
                   response.addCookie(cookie);

                   RequestDispatcher
dispatcher=request.getRequestDispatcher("/Home.jsp");
                   dispatcher.forward(request, response);
              }
              else {
                   request.setAttribute("error", "Invalid
email or password");
                   RequestDispatcher
dispatcher=request.getRequestDispatcher("/Login.jsp");
                   dispatcher.forward(request, response);
              }

         }
         catch(SQLException e) {
              e.printStackTrace();
         }
         catch(Exception e) {
              e.printStackTrace();
         }

     }
```

OUTPUT



CONTACT US

Fill Out The Form Below To Get In Touch With Us

PYTHON PROJECT

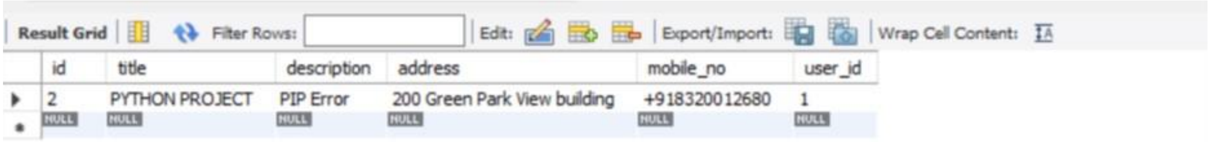
+918320012680

200 Green Park View building

PIP Error

info@company.com

+001-002-0034



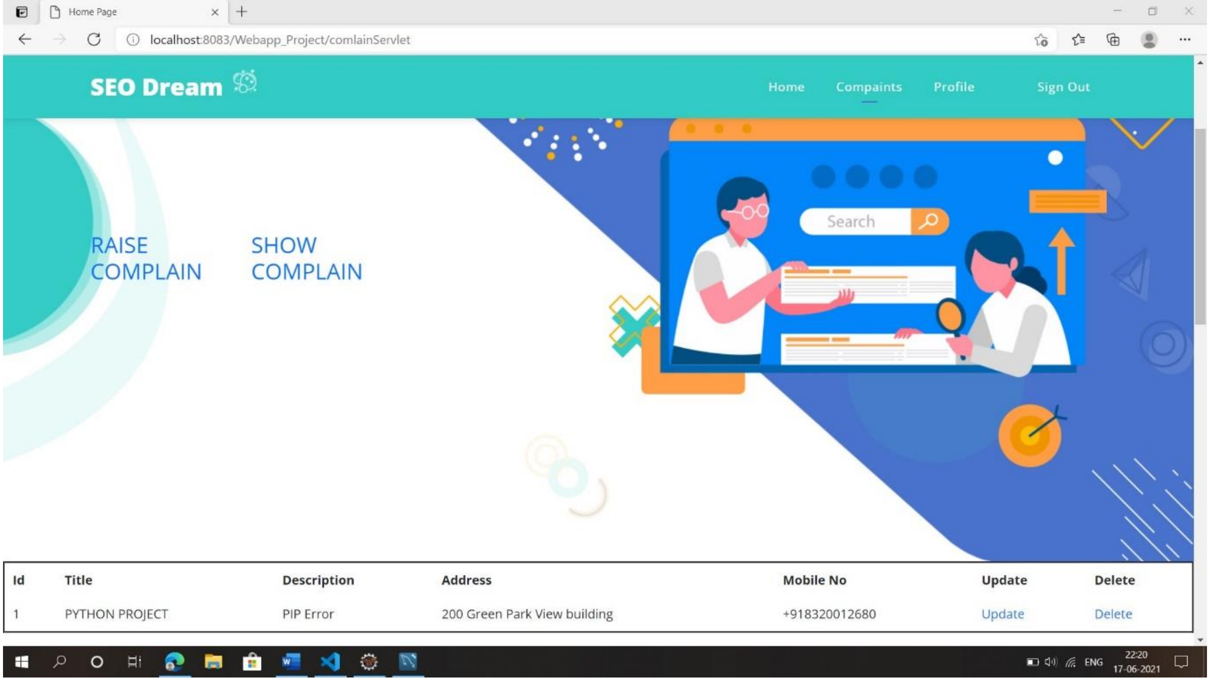
id	title	description	address	mobile_no	user_id
2	PYTHON PROJECT	PIP Error	200 Green Park View building	+918320012680	1
NULL	NULL	NULL	NULL	NULL	NULL

DAY-9

TASK-1 Get all complain from db and display it in form of table.

```
<table id="displayComplain" width="100%" cellspacing="10"
cellpadding="10" border="3" align="center">
    <tr>
        <th>Id</th>
        <th>Title</th>
        <th>Description</th>
        <th>Address</th>
        <th>Mobile No</th>
        <th>Update</th>
        <th>Delete</th>
    </tr>

    <% int count=1; %>
    <c:forEach var="complain" items="<%=complainList %>">
        <tr>
            <td><c:out value="<%= count++ %>"/></td>
            <td><c:out value="${complain.title}"/></td>
            <td><c:out value="${complain.description}
"/></td>
            <td><c:out value="${complain.address}
"/></td>
            <td><c:out value="${complain.mobileNo}
"/></td>
            <td><a href="<%= request.getContextPath()
%>/comlainServlet?id=${complain.id}&action=update">Update<
/a></td>
            <td><a href="<%= request.getContextPath()
%>/comlainServlet?id=${complain.id}&action=delete">Delete<
/a></td>
        </tr>
    </c:forEach>
</table>
```

OUTPUT



localhost:8083/Webapp_Project/comlainServlet

Id	Title	Description	Address	Mobile No	Update	Delete
1	PYTHON PROJECT	PIP Error	200 Green Park View building	+918320012680	Update	Delete

TASK-2 Delete Comlain from db

Passing id and type of action

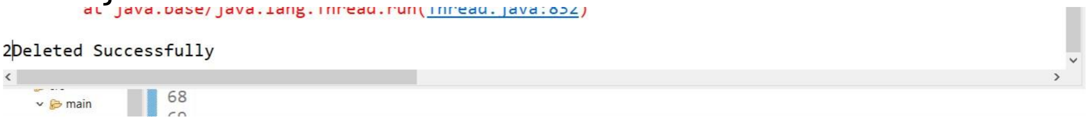
```
<% int count=1; %>
    <c:forEach var="complain" items="<%=complainList %>">
        <tr>
            <td><c:out value="<%= count++ %>"/></td>
            <td><c:out value="${complain.title}"/></td>
            <td><c:out value="${complain.description}
"/></td>
            <td><c:out value="${complain.address}
"/></td>
            <td><c:out value="${complain.mobileNo}
"/></td>
            <td><a href="<%= request.getContextPath()
%>/comlainServlet?id=${complain.id}&action=update">Update<
/a></td>
```

```
              <td><a href="<%= request.getContextPath()
%>/comlainServlet?id=${complain.id}&action=delete">Delete<
/a></td>
         </tr>
     </c:forEach>
```

TASK-3 Getting id and action in complainServlet.java

```
package com.brainy_beam.ahmlive.registration;
import com.brainy_beam.ahmlive.db.*;
import com.brainy_beam.ahmlive.entity.Complain;
import com.brainy_beam.ahmlive.entity.User;

import java.io.IOException;

import jakarta.servlet.RequestDispatcher;
import jakarta.servlet.ServletException;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import jakarta.servlet.http.HttpSession;

/**
 * Servlet implementation class comlain
 */
@WebServlet("/comlainServlet")
public class comlainServlet extends HttpServlet {
     private static final long serialVersionUID = 1L;
     private static final String DELETE_ACTION = "delete";
     private static final String UPDATE_ACTION = "update";
    /**
     * Default constructor.
     */
    public comlainServlet() {
        // TODO Auto-generated constructor stub
    }

     /**
      * @see HttpServlet#doGet(HttpServletRequest request, 
HttpServletResponse response)
      */
     protected void doGet(HttpServletRequest request, 
HttpServletResponse response) throws ServletException, 
IOException {
         int 
id=Integer.parseInt(request.getParameter("id"));
         System.out.print(id);
         String action=request.getParameter("action");


         switch(action) {

         case UPDATE_ACTION:
         if(id>0) {
              HttpSession session = request.getSession();
              User user = 
(User)session.getAttribute("userData");
              try {
                   Complain complain = new 
ComplainManagement().getComplainById(id,user.getId());
                   request.setAttribute("complain", 
complain);
                   RequestDispatcher dispacher = 
request.getRequestDispatcher("/updateModalContent.jsp");
                   dispacher.include(request, response);
                   return;
              } catch (Exception  e) {
                   System.out.println(user.getEmail());
                   e.printStackTrace();
                   request.setAttribute("error", 
"Something Went Wrong ! Please Try Again");
                   RequestDispatcher dispacher = 
request.getRequestDispatcher("/updateModalContent.jsp");
                   dispacher.include(request, response);
                   return;
				}
			}
			else {
				request.setAttribute("error", "Something
Went Wrong ! Please Try Again");
				RequestDispatcher dispacher =
request.getRequestDispatcher("/updateModalContent.jsp");
				dispacher.include(request, response);
				return;
			}



			case DELETE_ACTION: if(id>0) {
							try {
								boolean isSuccess=new
ComplainManagement().removeComplainById(id);
								if(isSuccess) {

	request.getRequestDispatcher("complain.jsp").forward(
request, response);
								}
								else {

	response.sendRedirect(request.getContextPath()+"/erro
r.jsp");
								}
							}
							catch(Exception e){
								e.printStackTrace();

	response.sendRedirect(request.getContextPath()+"/erro
r.jsp");
							}
						}
			default:
				request.setAttribute("error", "Something
Went Wrong ! Please Try Again");
				RequestDispatcher dispacher =
request.getRequestDispatcher("/complain.jsp");
				dispacher.include(request, response);
				return;
```

```
                }

        }
```



```
        at java.base/java.lang.Thread.run(Thread.java:852)

2Deleted Successfully
```

DAY-10

TASK-1 Create update form to update details of complain

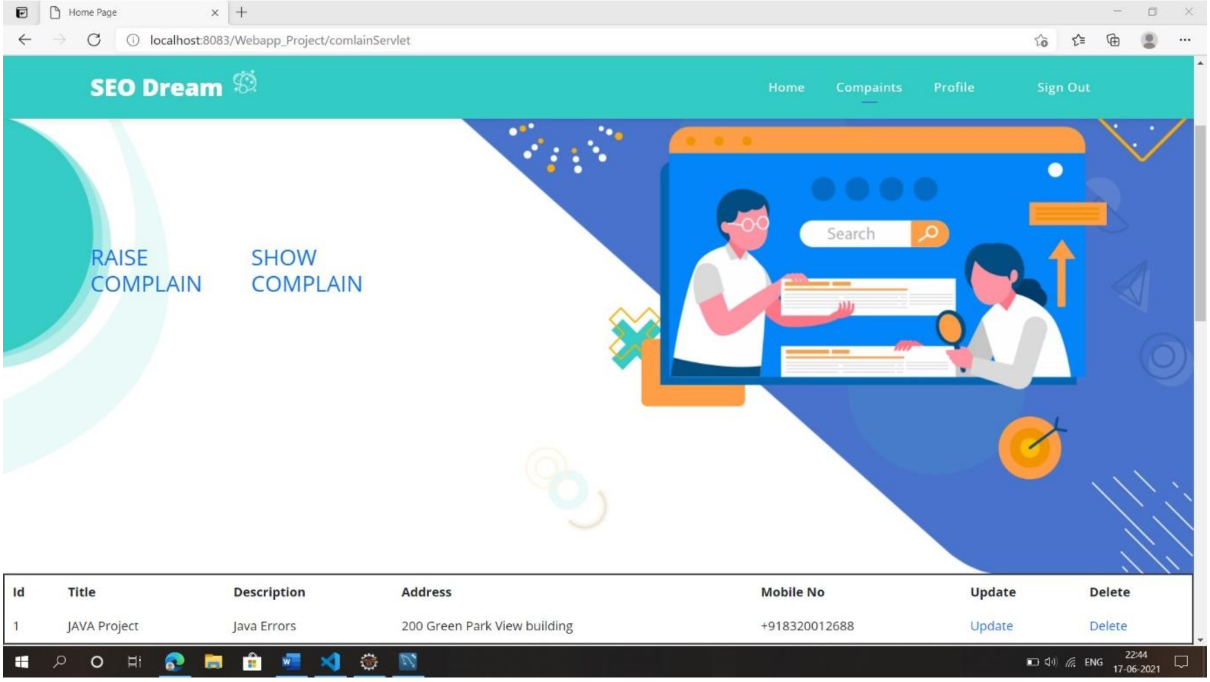
updateModal.jsp

```
<%@page import="com.brainy_beam.ahmlive.entity.Complain"%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
    <!DOCTYPE html>
<html lang="en">

  <head>

    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1, shrink-to-fit=no">
    <meta name="description" content="">
    <meta name="author" content="">
    <link rel="preconnect" href="https://fonts.gstatic.com">
    <link
href="https://fonts.googleapis.com/css2?family=Open+Sans:wght@300;40
0;600;700;800&display=swap" rel="stylesheet">

    <title>SEO Dream - Creative SEO HTML5 Template by
TemplateMo</title>

    <!-- Bootstrap core CSS -->
    <link href="vendor/bootstrap/css/bootstrap.min.css"
rel="stylesheet">


    <link rel="stylesheet" href="assets/css/fontawesome.css">
    <link rel="stylesheet" href="assets/css/templatemo-seo-
dream.css">
    <link rel="stylesheet" href="assets/css/animated.css">
    <link rel="stylesheet" href="assets/css/owl.css">


</head>
      <body>
      <%
        Complain complainObj  = new Complain();
        if(request.getAttribute("complain") != null){
           complainObj = (Complain)request.getAttribute("complain");
           %>
           <div class="modal-header">
             <h5 class="modal-title" id="exampleModalLabel">Update
Complain</h5>
             <button type="button" class="btn-close btn" data-bs-
dismiss="modal" aria-label="Close">
                <span aria-hidden="true">&times;</span>
             </button>
         </div>
         <form action="comlainServlet" method="post">
          <div class="modal-body">
                  <div class="mb-3">
                      <label for="title" class="form-
label">Title</label>
                      <input type="text" class="form-control py-0"
id="title" name="title" value="<%= complainObj.getTitle() %>"
                  placeholder="Enter Title ... " required>
          </div>
          <div class="mb-3">
              <label for="description" class="form-
label">Description</label>
              <textarea class="form-control py-0" rows="1"
id="description" name="description"
                  placeholder="Enter Description ..." required><%=
complainObj.getDescription()%></textarea>
          </div>
          <div class="mb-3">
              <label for="phoneNo" class="form-label">Mobile
No.</label>
              <input type="text" class="form-control py-0"
id="phoneNo" name="phoneNo"
                  placeholder="Enter Mobile No. ..." value="<%=
complainObj.getMobileNo() %>" required>
          </div>
          <div class="mb-3">
              <label for="address" class="form-
label">Address</label>
              <textarea class="form-control py-0" rows="1"
id="address" name="address"
                  placeholder="Enter Address ..." required><%=
complainObj.getAddress() %></textarea>
          </div>
          <input type="hidden" name="id" value="<%=
complainObj.getId() %>">
  </div>
  <div class="modal-footer">
      <button type="Submit" class="btn btn-primary">Update
Complain</button>
```

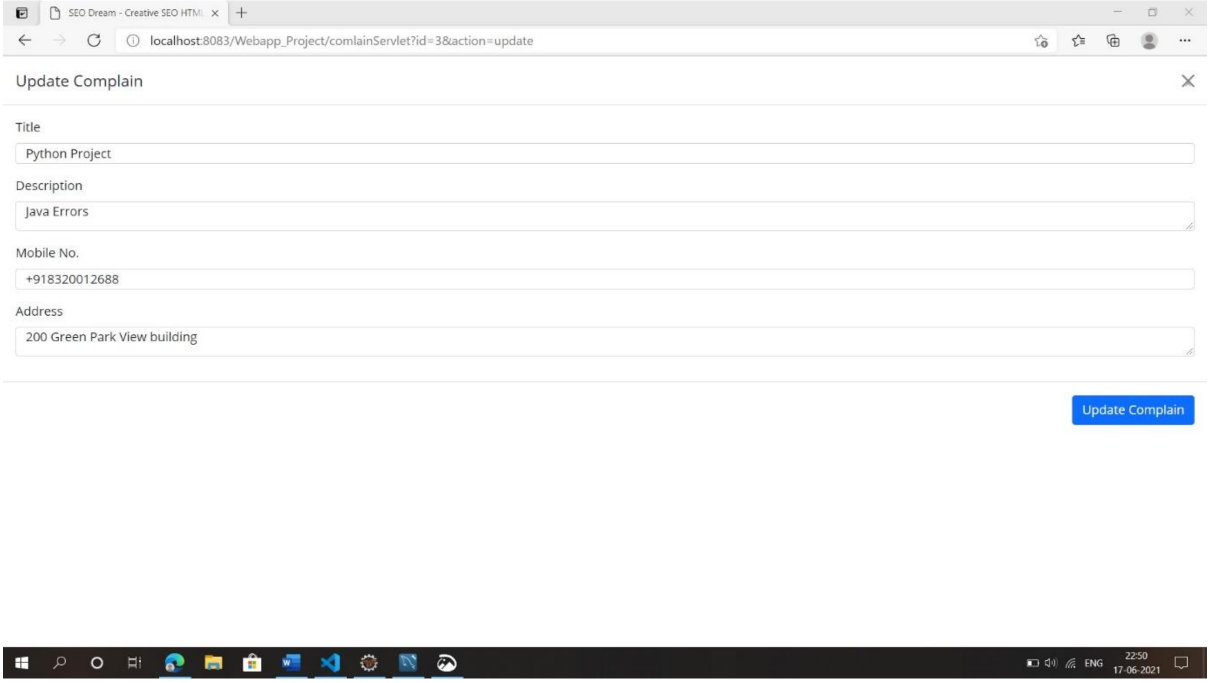
```
  </div>
</form>
<%}%>
</body>
</html>
```

OUPUT

Before update



Id	Title	Description	Address	Mobile No	Update	Delete
1	JAVA Project	Java Errors	200 Green Park View building	+918320012688	Update	Delete



SEO Dream - Creative SEO HTML
localhost:8083/Webapp_Project/comlainServlet?id=3&action=update

Update Complain

Title

Python Project

Description

Java Errors

Mobile No.

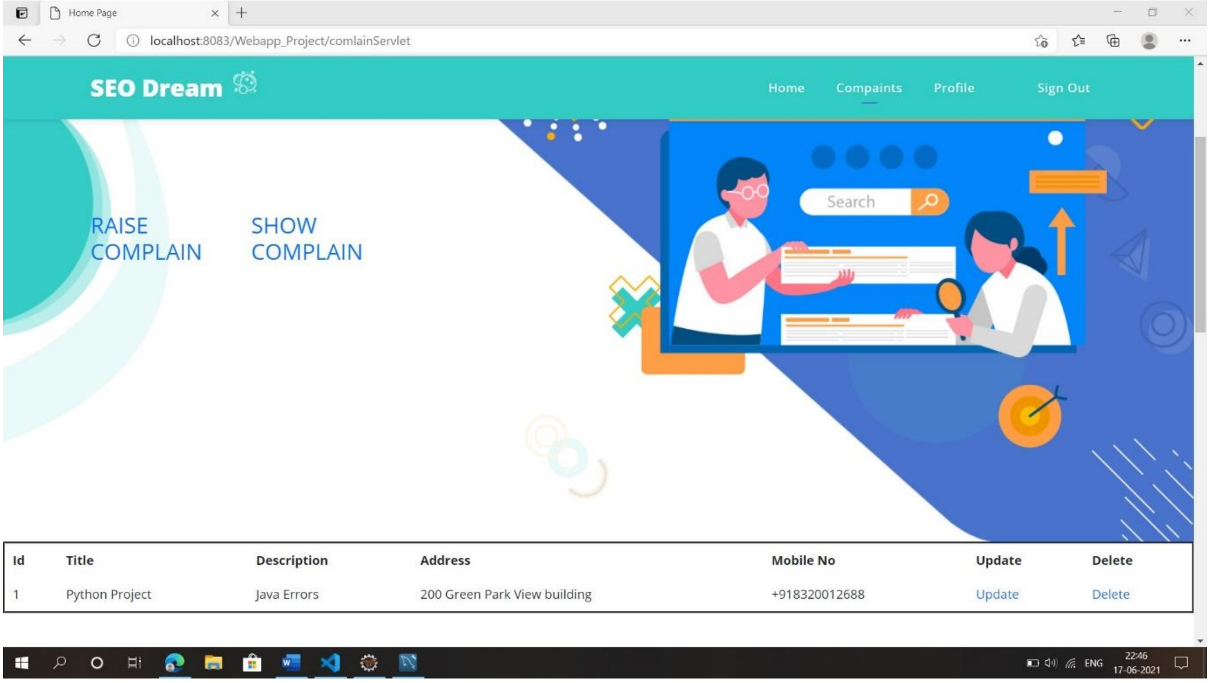
+918320012688

Address

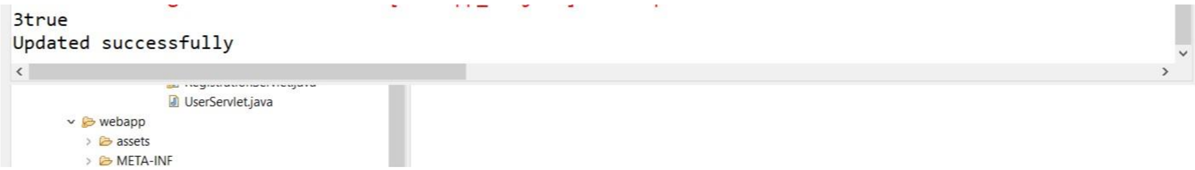
200 Green Park View building

Update Complain
ENG
22:50
17-06-2021

After update Title



Id	Title	Description	Address	Mobile No	Update	Delete
1	Python Project	Java Errors	200 Green Park View building	+918320012688	Update	Delete



```
3true
Updated successfully
```

DAY-11

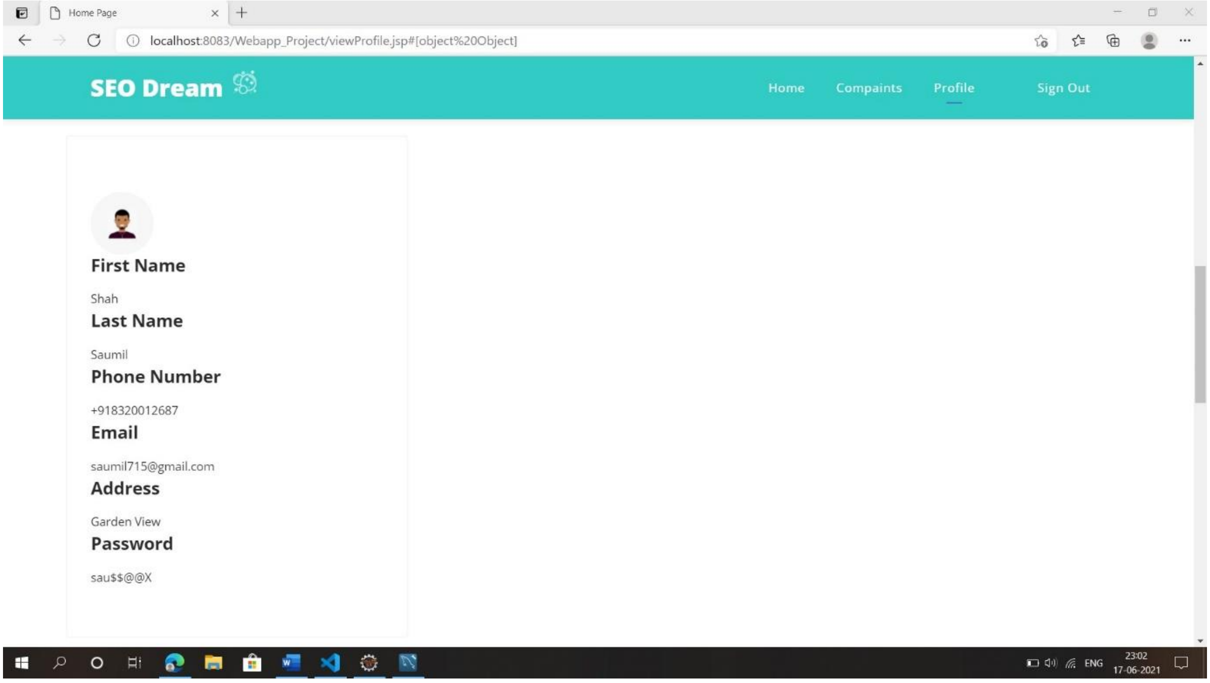
TASK-1 Show the UserProfile

Display UserProfile

viewProfile.jsp

```
<div class="container-fluid">
   <div class="row">
    <div class="col-lg-4">
     <div class="service-item wow bounceInUp" data-wow-
duration="1s" data-wow-delay="0.3s">
      <div class="row">
       <div class="col-lg-18">
        <div class="icon">
         <img src="assets/images/profileimg.jfif" alt="">
        </div>
       </div>
       <div class="col-lg-8">
        <div class="right-content">
         <h4>First Name</h4>
         <p><%= user.getFname() %></p>
        </div>
       </div>

       <div class="col-lg-8">
        <div class="right-content">
         <h4>Last Name</h4>
         <p><%= user.getLname() %></p>
        </div>
       </div>

       <div class="col-lg-8">
        <div class="right-content">
         <h4>Phone Number</h4>
         <p><%= user.getPhoneNumber() %></p>
        </div>
       </div>


       <div class="col-lg-8">
        <div class="right-content">
         <h4>Email</h4>
         <p><%= user.getEmail() %></p>
        </div>
       </div>
       <div class="col-lg-8">
        <div class="right-content">
          <h4>Address</h4>
          <p><%= user.getAddress() %></p>
        </div>
      </div>

      <div class="col-lg-8">
        <div class="right-content">
          <h4>Password</h4>
          <p><%= user.getPassword() %></p>
        </div>
      </div>
    </div>
  </div>
</div>
```

OUTPUT



First Name

Shah

Last Name

Saumil

Phone Number

+918320012687

Email

saumil715@gmail.com

Address

Garden View

Password

sau$$@@X

DAY-12

TASK-1 Update UserProfile

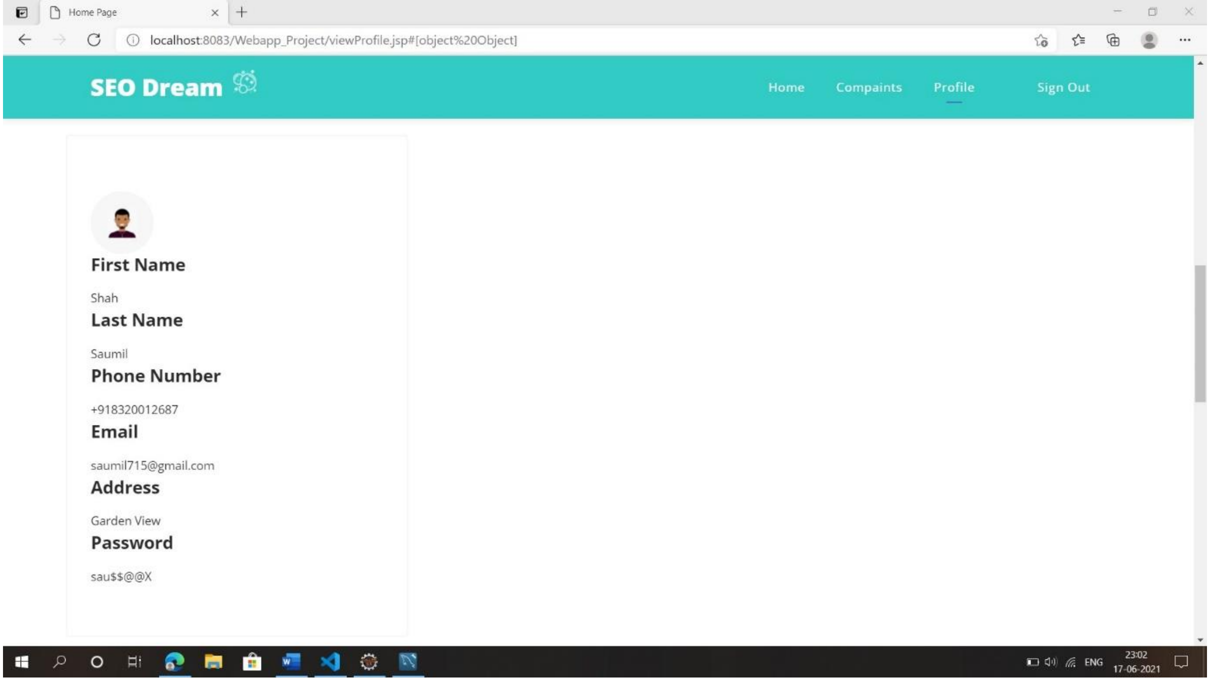
```
<%response.setHeader("Cache-Control","no-cache,no-
store,must-revalidate");
 HttpSession sessionObj = request.getSession(false);
 User user = new User();
 if(sessionObj.getAttribute("userData") == null){

response.sendRedirect(request.getContextPath()+"/Login.jsp
");
 }
 else{
      user = (User)sessionObj.getAttribute("userData");
 }
 if(request.getAttribute("error") != null){
 %>
 <div class="alert fixed-top alert-danger alert-
dismissible fade show" role="alert">
           <strong>Error! </strong>
<%=request.getAttribute("error")  %>
           <button type="button" class="close" data-
dismiss="alert" aria-label="Close">
             <span aria-hidden="true">&times;</span>
           </button>
     </div>
 <%
 }
 if(request.getAttribute("success") != null){
 %>
 <div class="alert fixed-top alert-success alert-
dismissible fade show" role="alert">
           <strong>Success! </strong>
<%=request.getAttribute("success")  %>
           <button type="button" class="close" data-
dismiss="alert" aria-label="Close">
             <span aria-hidden="true">&times;</span>
           </button>
     </div>
 <%
 }
```

```
%>


<div id="contact" class="contact-us section">
    <div class="container">
      <div class="row">
        <div class="col-lg-12 wow fadeInUp" data-wow-duration="0.5s"
data-wow-delay="0.25s">
          <form id="contact" action="UserServlet" method="post">
            <div class="row">
              <div class="col-lg-6 offset-lg-3">
                <div class="section-heading">
                  <h6>Contact Us</h6>
                  <h2>User <span>Profile</span></h2>
                </div>
              </div>
              <div class="col-lg-9">
                <div class="row">
                  <div class="col-lg-6">
                    <fieldset>
                      <label for="fname" class="form-label">First
Name</label>
                      <input type="text" name="fname"  id="fname"
placeholder="FirstName" value="<%=user.getFname() %>"
autocomplete="on" required>
                    </fieldset>
                  </div>
                  <div class="col-lg-6">
                    <fieldset>
                    <label for="lname" class="form-label">First
Name</label>
                      <input type="text" name="lname" id="lname"
placeholder="LastName" value="<%=user.getLname() %>"
autocomplete="on" required>
                    </fieldset>
                  </div>
                  <div class="col-lg-6">
                    <fieldset>
                     <label for="email" class="form-
label">Email</label>
                      <input type="text" name="email" id="email"
value="<%=user.getEmail() %>" placeholder="Your Email" required="">
                    </fieldset>
                  </div>
                   <div class="col-lg-6">
                    <fieldset>
                     <label for="password" class="form-
label">Email</label>
```

```
                      <input type="text" name="password"
id="password" value="<%=user.getPassword() %>" placeholder="Your
password" required="">
                    </fieldset>
                  </div>
                  <div class="col-lg-6">
                    <fieldset>
                     <label for="phoneNumber" class="form-
label">Phone Number</label>
                      <input type="text" name="phoneNumber"
id="subject" value="<%=user.getPhoneNumber() %>" autocomplete="on">
                    </fieldset>
                  </div>
                  <div class="col-lg-12">
                    <fieldset>
                     <label for="address" class="form-
label">Address</label>
                      <textarea name="address" type="text"
class="form-control" id="address"  required=""><%=user.getAddress()
%></textarea>
                    </fieldset>
                  </div>
                  <div class="col-lg-12">
                    <fieldset>
                      <button type="submit" id="form-submit"
class="main-button ">Update Profile</button>
                    </fieldset>
                  </div>
                </div>
              </div>

            </div>
          </form>
        </div>
      </div>
    </div>
  </div>
```

OUTPUT

Before Update Fname is Shah


Home Page
localhost:8083/Webapp_Project/viewProfile.jsp#[object%20Object]
SEO Dream
Home
Compaints
Profile
Sign Out

First Name

Shah

Last Name

Saumil

Phone Number

+918320012687

Email

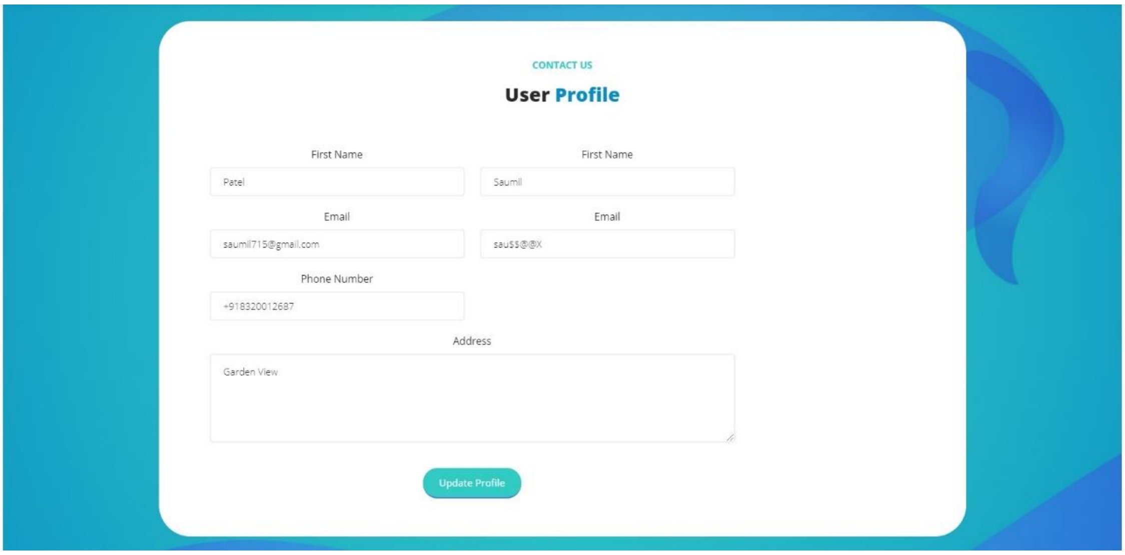
saumil715@gmail.com

Address

Garden View

Password

sau$$@@X



User Profile

First Name: Patel

First Name: Saumil

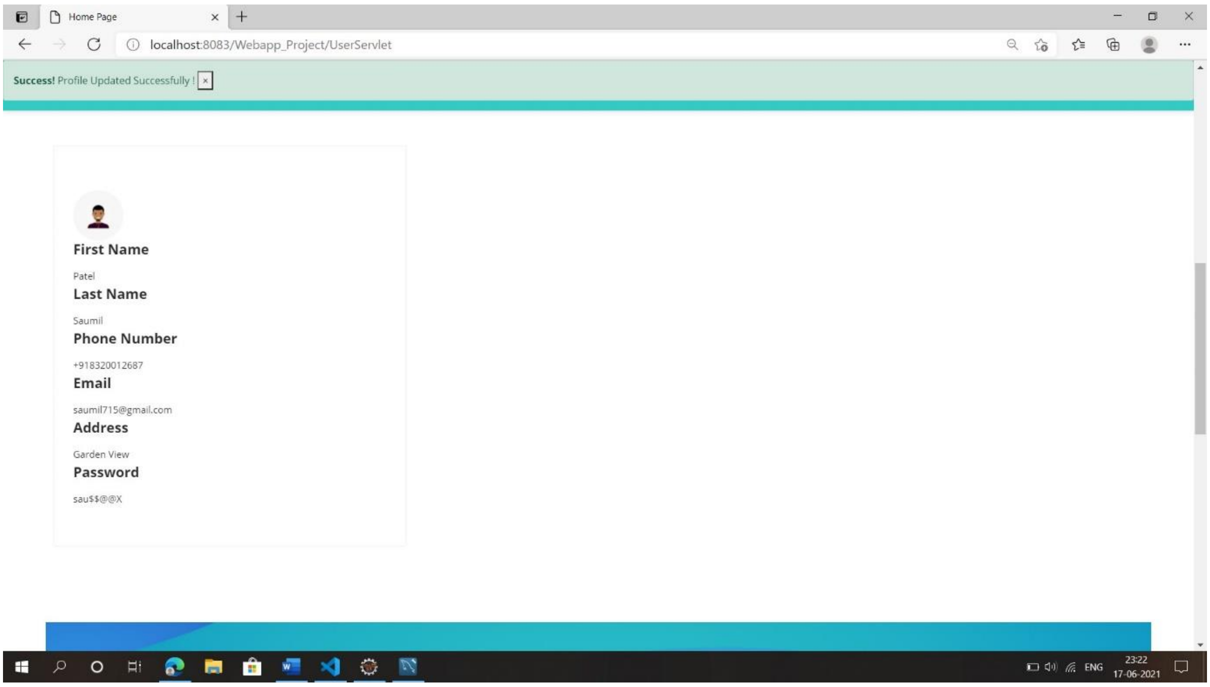
Email: saumil715@gmail.com

Email: sau$$@@X

Phone Number: +918320012687

Address: Garden View

After Update Fname is Patel



Success! Profile Updated Successfully ! ×

First Name

Patel

Last Name

Saumil

Phone Number

+918320012687

Email

saumil715@gmail.com

Address

Garden View

Password

sau$$@@X

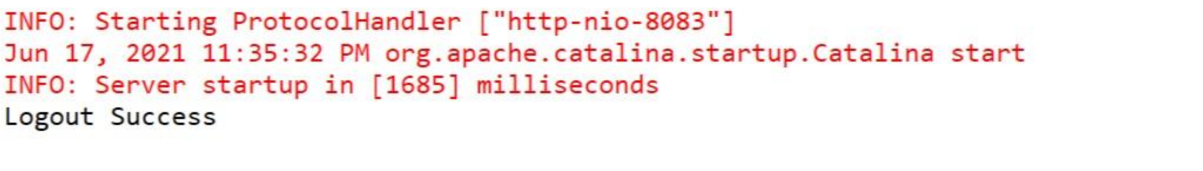
DAY-13

TASK-1 Create Signout servlet

LogoutServlet.java

```
package com.brainy_beam.ahmlive.registration;

import java.io.IOException;
import jakarta.servlet.ServletException;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.Cookie;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import jakarta.servlet.http.HttpSession;

/**
 * Servlet implementation class LogoutServlet
 */
@WebServlet("/LogoutServlet")
public class LogoutServlet extends HttpServlet {
     private static final long serialVersionUID = 1L;

    /**
     * Default constructor.
     */
    public LogoutServlet() {
        // TODO Auto-generated constructor stub
    }

     /**
      * @see HttpServlet#doGet(HttpServletRequest request,
HttpServletResponse response)
      */
     protected void doGet(HttpServletRequest request,
HttpServletResponse response) throws ServletException,
IOException {
          HttpSession session = request.getSession();
          session.setAttribute("userData", null);
          session.invalidate();
          System.out.println("Inside do Get");

          Cookie[] cookies = request.getCookies();
          for(int i=0;i<cookies.length;i++) {
          cookies[i].setValue(null);
          cookies[i].setMaxAge(0);
          response.addCookie(cookies[i]);
          }


response.sendRedirect(request.getContextPath()+"/Login.jsp
");

     }

     /**
      * @see HttpServlet#doPost(HttpServletRequest
request, HttpServletResponse response)
      */
     protected void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException,
IOException {
          // TODO Auto-generated method stub
          doGet(request, response);
     }

}
```

OUTPUT



```
INFO: Starting ProtocolHandler ["http-nio-8083"]
Jun 17, 2021 11:35:32 PM org.apache.catalina.startup.Catalina start
INFO: Server startup in [1685] milliseconds
Logout Success
```

DAY-14

DAY-15