

**SRM INSTITUTE OF SCIENCE AND TECHNOLOGY,
KATTANKULATHUR, CHENNAI – 603203**



**FACULTY OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF SOFTWARE ENGINEERING**

15IT304J – Web Programming



Submitted By:

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Reg. No.: RA1711020010088

Dept.: Software Engineering

Abstract

Job seekers in the current fast paced era, face a lot of issues while maintaining records of all the on campus and off campus applications they have applied in an efficient and visualized way. The idea of the proposed web application is to give the candidates a platform to manage the job applications by adding them to the platform with all the required details and the status of the application and can also edit or delete the application if needed. Then the applicants or the job seekers can change the status of the application as and when required and this gives them the visual board and freedom to choose the application that requires there attention first. This helps them to apply an undivided attention to the applications. The proposed web application also has a blogging page which gives the job seekers not only the logged in ones but to the entire world a platform to share their knowledge and learn something new on a regular basis. The users can add blogs and share their knowledge to the whole world.

Introduction

The application has the following pages:


1. Login
2. Registration
3. Home Page
4. Profile/Main Page
5. Job Records
6. Job Records Form
7. Blogs
8. Blogs Form
9. Blogs Process
10. About
11. Contact Us
12. Terms and Conditions


The technologies used are:

1. HTML
2. CSS
3. JavaScript
4. Servlet (Java)
5. JSP (Java)
6. PHP
7. AJAX
8. XML
9. MySQL
10. XSLT

Modules

Home Page

[Login](#)[Register](#)




Who are We?

We here at Job Tasker aims to provide all job aspirants the platform to grow, learn and manage everything that comes in way.

[Know More »](#)

localhost:15439/#carousel-719565


[Know More »](#)



Manage Records

Manage all your job applications based on the status and focus on the profiles that matters most and then go on to win the world because world is an illusion and you are just a blimp in the cosmic calendar.


[Register](#)



Blogs

Come indulge yourself in the world of knowledge. Share them if you want. Earn them if you see. Everyday we learn something new. Let the newness be magnificent.

[Explore](#)




Contact Us

You know best product comes when companies hear to their users. Hence come forward and tell us anything you wanted to say or change or if we made any mistakes. We are all ear and waiting for you message. Hit us up!!

[Contact Us](#)

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Registration Page



The registration form is divided into two main sections: 'Details' and 'Other Details'. The 'Details' section includes fields for Name, Email ID, Password, Re-enter Password, LinkedIn URL, Date of Birth, and Profile Photo. The 'Other Details' section includes fields for Address, Pincode, Mobile Number, a slider for Rate your Technical Skills, a color picker for Fav Color, radio buttons for gender selection, and checkboxes for online platforms (HackerRank, CodeChef, LeetCode). The form has a 'Submit' button and a 'Reset' button at the bottom.

Details

Name:

Email ID:

Password:

Re-enter Password:

LinkedIn:

Date of Birth:

Profile Photo: No file selected.

Other Details

Address:

Pincode:

Mobile Number:


Rate your Technical Skills:

Fav Color:

Please select your gender: ☐ Male ☐ Female ☐ Other

Online Platforms: ☐ HackerRank ☐ CodeChef ☐ LeetCode

Login Page



The login form is a simple, centered box with the title 'Log In'. It contains two input fields: 'Enter email id' and 'Enter Password', followed by a 'Log In' button.

Log In

Profile Page

Logout



Welcome, Admin JobTasker !!

Job Records

Blogs

Blogs

Back



Write Something

My Third Blog

Abhishek Kumar

Thu, 5th Nov 2020

Lorem Ipsum

My Fourth Blog

Abhishek Kumar

Thu, 5th Nov 2020

"Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum"

Blogs Form

Unleash Creativity....

Title

Author

Body

Job Records

Welcome, Abhishek Kumar !!

Records

#	Title	Company	URL	JD	Apply Date	Status	
1	Intern	Flipkart	https://www.firstnaukri.com	Intern Role, Awesome Role, Super Awesome, Super Duper Awesome	2020-11-02	Withdrawn	<input type="button" value="Edit"/>
2	SDE	Amazon	https://www.amazon.in	Amazon 6 months SDE Role	2020-10-14	Interview	<input type="button" value="Edit"/>
3	HJbhbhjhsabdhd	jhbdbjhd	http://internetministry4cheap.com/	sdjbhjhdsc	1100-09-10	Applied	<input type="button" value="Edit"/>

Job Records Form

[Back](#)

Job Record Form

Job Title

Company

Application URL

Application Date

Job Description

Status

Contact Us

[Login](#)[Register](#)

Hi there user, if you have any complaints or feedback, do reach out to us by filling the below form and we'll get back to you earliest possible. 😊

Contact Us

* Required

Email address *

Type of query *

Name *

About

[Login](#)[Register](#)

About Us

Our Vision is to provide the best platform for job aspirants to not only track their job applications but check out the Blogs section to learn more and more everyday, because learning never stops. If you have any feedback then please do contact us on [Click Here](#). We always strive to be focused for other's benefits.

--Job Tasker

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Terms and Conditions

[Login](#)[Register](#)

Terms and Conditions

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- Republish material from JobTasker

Motivation Quotes

Welcome, Abhishek Kumar !!

[Job Records](#)

[Blogs](#)

Hi Abhishek Kumar, todays quote is 'Life is what happens to you while you're busy making other plans. ~John Lennon'

Lab Manual

Course Code : 15IT304J
Course Name : Web Programming
Class : VII Semester

List of Experiments

1. Creating resume with basic HTML and CSS
2. Creating homepage with framesets
3. Creating Login Page using HTML and CSS
4. Creating Registration Page using HTML and CSS
5. Add validation using Regular Expression to login and registration page using JavaScript
6. Create a dynamic web page using Servlet (Login and Registration)
7. Create a dynamic web page using JSP (Profile Page)
8. Create a dynamic web page using PHP with database (Records and Blogs)
9. Creating XML file and XSLT to display the XML (Blogs)
10. Using AJAX to load XML contents (Blogs)
11. Creating webservice using Java (Motivational Quotes)

Experiment – 1

Aim: Creating resume with basic HTML and CSS

Procedure:

- Create the required HTML file and CSS file
- Add the required tags and elements in both the files
- Save the file
- Open the files in the browser to render the output

Code:

```
<html>
<head>
  <title>Resume</title>
  <style>
    .details {
      font-family: "Times New Roman", Times, serif;
      font-size: 20;
      text-align: left;
    }

    table {
      margin-left: auto;
      margin-right: auto;
    }

    td {
      text-align: center;
    }
  </style>
</head>

<body>
  <h1
    style="
      font-family: 'Times New Roman', Times, serif;
      font-size: 18;
      text-align: center;
    "
  >
```

```

>
  Resume
</h1>

<div class="details">
  <h5>Name: Abhishek Kumar</h5>
  <h5>Address: Noida, UP</h5>
  <h5>
    Email:
    <a href="mailto:aa5539@srmist.edu.in">aa5539@srmist.edu.in</a>
  </h5>
</div>
<br />
<hr />
<h3>
  <u>Career Objective:</u>
</h3>
<p>
  I'm a highly motivated individual and believes that for quality work we
  need the perfect combination of hard work and smart work. I'm a team
  player and can adapt myself as per organizational demands. I have forayed
  into various fields like Android Development, Ethical Hacking, Game
  Development, Cloud Services etc. hence have an unorthodox view of the
  famous fields. I have also been through various programming languages like
  C, C++, Java, Unity C#, Python, Dart, Go, etc. and have gained proficiency
  in Python, Dart and C++. I always have a burning curiosity inside me which
  has helped me to explore and keep me motivated to learn more.
</p>
<br />
<br />
<hr />
<h3>
  <u>Qualifications:</u>
</h3>
<table border="1">
  <tr>
    <th>Degree/Diploma</th>
    <th>Branch/Specialization</th>
    <th>Year of reward</th>
  </tr>

```

```

    <th>Class/Division</th>
    <th>College/Institute</th>
    <th>University</th>
  </tr>

  <tr>
    <td>10</td>
    <td>CBSE</td>
    <td>2015</td>
    <td>-</td>
    <td>Maharaja Agrasen Model School</td>
    <td>CBSE</td>
  </tr>

  <tr>
    <td>12</td>
    <td>CBSE</td>
    <td>2017</td>
    <td>-</td>
    <td>Maharaja Agrasen Model School</td>
    <td>CBSE</td>
  </tr>

  <tr>
    <td>B.Tech</td>
    <td>Software Engineering</td>
    <td>2021</td>
    <td>-</td>
    <td>SRM Institute of Science and Technology</td>
    <td>SRM Institute of Science and Technology</td>
  </tr>
</table>
<br />
<br />
<hr />
<h3>
  <u>Skills:</u>
</h3>
<ul>
  <li>
    <b>Programming Languages:</b>
    Python, Dart, C++, Java, C, JavaScript, Unity C#, Go Lang
  </li>
  <li>
    <b>Frameworks:</b>

```

```
    Bootstrap 4, Flutter
</li>
<li>
    <b>Software:</b>
    Unity, Visual Studio, Android Studio, MySQL, Microsoft Office, Git,
    Atom, Photoshop, Inkscape, WireShark, SQLmap, Aircrack, Metasploit,
    cPanel, OWASP ZAP
</li>
<li>
    <b>Operating Systems:</b>
    Windows OS, Ubuntu, Kali Linux
</li>
</ul>
<br />
<br />
<hr />
<h3>
    <u>Internship:</u>
</h3>
<h4>Web Development</h4>
<h5>Salvonic Technologies Pvt Ltd, Noida-UP</h5>
<h6>Nov 2018 - Jan 2019</h6>
<ul>
    <li>
        Active Participation in Strategic Decision Making throughout the
        Company.
    </li>
    <li>Maintaining and Securing client WordPress websites.</li>
    <li>Working on new products using the latest Technologies</li>
</ul>
<br />
<br />
<hr />
<h3>
    <u>Certifications:</u>
</h3>
<ol type="i">
    <li>Certified Ethical Hacker (CEH) – EC Council</li>
    <li>Flutter Development Bootcamp with Dart - Udemy • Flutter, Dart</li>
    <li>
        Web Application Security Testing with OWASP ZAP - Coursera • Pentesting
    </li>
    <li>
        Career Edge – Knockdown the Lockdown - TCS iON Lifelong Learning • Soft
        Skills
    </li>
</ol>
```

```
</li>
<li>Digital Transformation - Coursera</li>
<li>Machine Learning - Coursera</li>
</ol>
<br />
<br />
<hr />
<h3>
  <u>Projects:</u>
</h3>
<ol type="i">
  <li>Flutter Android App - Money Savvy</li>
  <li>Android Game using Unity and C# - Space Run Endless</li>
  <li>VSbs Browser Extension</li>
  <li>Salvonic Browser Extension</li>
  <li>VSbs2 Python App</li>
  <li>Python and MySQL project</li>
</ol>
<br />
<br />
<hr />
</body>
</html>
```


Output:

Resume

Name: Abhishek Kumar

Address: Noida, UP

Email: aa5539@srmist.edu.in



Career Objective:

I'm a highly motivated individual and believes that for quality work we need the perfect combination of hard work and smart work. I'm a team player and can adapt myself as per organizational demands. I have forayed into various fields like Android Development, Ethical Hacking, Game Development, Cloud Services etc. hence have an unorthodox view of the famous fields. I have also been through various programming languages like C, C++, Java, Unity C#, Python, Dart, Go, etc. and have gained proficiency in Python, Dart and C++. I always have a burning curiosity inside me which has helped me to explore and keep me motivated to learn more.

Qualifications:

Degree/Diploma	Branch/Specialization	Year of reward	Class/Division	College/Institute	University
10	CBSE	2015	-	Maharaja Agrasen Model School	CBSE
12	CBSE	2017	-	Maharaja Agrasen Model School	CBSE
B.Tech	Software Engineering	2021	-	SRM Institute of Science and Technology	SRM Institute of Science and Technology

Skills:

- **Programming Languages:** Python, Dart, C++, Java, C, JavaScript, Unity C#, Go Lang
- **Frameworks:** Bootstrap 4, Flutter
- **Software:** Unity, Visual Studio, Android Studio, MySQL, Microsoft Office, Git, Atom, Photoshop, Inkscape, WireShark, SQLmap, Aircrack, Metasploit, cPanel, OWASP ZAP
- **Operating Systems:** Windows OS, Ubuntu, Kali Linux

Internship:

Web Development

Salvonic Technologies Pvt Ltd, Noida-UP

Nov 2018 - Jan 2019

- Active Participation in Strategic Decision Making throughout the Company.
- Maintaining and Securing client WordPress websites.
- Working on new products using the latest Technologies

Certifications:

- i. Certified Ethical Hacker (CEH) – EC Council
- ii. Flutter Development Bootcamp with Dart - Udemy • Flutter, Dart
- iii. Web Application Security Testing with OWASP ZAP - Coursera • Pentesting
- iv. Career Edge – Knockdown the Lockdown - TCS iON Lifelong Learning • Soft Skills
- v. Digital Transformation - Coursera
- vi. Machine Learning - Coursera

Projects:

- i. Flutter Android App – Money Savvy
- ii. Android Game using Unity and C# - Space Run Endless
- iii. VSbs Browser Extension
- iv. Salvonic Browser Extension
- v. VSbs2 Python App
- vi. Python and MySQL project

Result: The code was successfully executed

Experiment – 2

Aim: Creating homepage with framesets

Procedure:

- Create the required HTML file
- Add the required tags, elements and frames in all the files
- Save the file
- Open the files in the browser to render the output

Code:

- index.html

```
<html>
<head><title>RA1711020010088</title></head>
<frameset rows="15%,*">
<frame src="Title.html">
<frameset cols="15%,*">
<frame src="link.html" noresize scrolling=no>
<frame src="welcome.html" name="main">
</frameset>
</html>
```

- link.html

```
<html>
  <body>
    <a href="abstract.html" target="main">Abstract</a><br></br>
    <a href="Description.html" target="main">Module Description</a><br><br><br>
    <a href="HS.html" target="main">Requirments</a><br><br><br>
    <a href="../Resume.html" target="main">Resume</a>
  </body>
</html>
```

- description.html

```
<html>
<body>
<h3><u>Users:</u></h3>
<ul>
<li>Sign In: Users can Sign In to the application with the registered email Id and password</li>
<li>Register: Users can Register by creating an Id and Password</li>
<li>Resume: The uploaded resume to download and use the resume anytime</li>
<li>My Profile: Applicants personal Details for faster reference during application filling process</li>
</ul>
<h3><u>Job Application Data:</u></h3>
<ul>
<li>CREATE: Create Job Application Data</li>
<li>READ: Read Job Application Data and show them according to the status</li>
<li>UPDATE: Update Job Application Data like process status and other details</li>
<li>DELETE: Delete Job Application Data</li>
</ul>

<h3><u>Question Bank:</u></h3>
<ul>
<li>CREATE: Create new Questions asked during the process</li>
<li>READ: Read Questions while preparing for Interview Process</li>
<li>UPDATE: Update Questions if an efficient solution to the problem is encountered </li>
<li>DELETE: Delete Questions if needed</li>
</ul>

<h3><u>API:</u></h3>
<ul>
<li>List out all the open job applications as per the API response from the appropriate Job Boards</li>
</ul>
</body>
</html>
```

- abstract.html

```
<html>
<body>
<h2><u>Abstract:</u></h2>
<p align="left">
Job seekers face a lot of issues while maintaining records of all the oncampus and offcampus applications they have applied in an efficient and visualized way. All the applications will be visible by priority set by the job seekers and other constraints accordingly and will have data for observations like test score, job titles with more success to make more informed decision in future application process. In the proposed Job application tracker, the applicants can enter Application details like Company Name, Job Title, Job Description, Application Date and Application Status. The applicants will be able to sort and track the status of the application and will get email reminders for the same. Applicants can even make question bank of questions asked during the process and can view it during the next job process. A separated page will list out all the open job applications as per the API response from Job Boards.
</p>
</body>
</html>
```

- HS.html

```
<html>
<body>
<h3><u>Technologies Used:</u></h3>
<ul>
<li>Front-End: HTML, CSS, JS</li>
<li>Back-End: Servlet, JSP, PHP</li>
<li>Database: MySQL</li>
</ul>
<h3><u>Requirements:</u></h3>
<ul>
<li>A Reliable Internet Connection</li>
<li>Any Web Browser</li>
<li>A working Computer or Mobile</li>
</ul>
</body>
</html>
```

Output:

Job Tasker: A smart personal job application tracker for offcampus and oncampus applications and with question bank and Job Boards

Abstract	Click on the Links on the left colum for more information
Module Description	
Requirements	
Resume	

Job Tasker: A smart personal job application tracker for offcampus and oncampus applications and with question bank and Job Boards

Abstract	<u>Abstract:</u> Job seekers face a lot of issues while maintaining records of all the oncampus and offcampus applications they have applied in an efficient and visualized way. All the applications will be viable by priority set by the job seekers and other constraints accordingly and will have data for observations like test score, job titles with more success to make more informed decision in future application process. In the proposed Job application tracker, the applicants can enter Application details like Company Name, Job Title, Job Description, Application Date and Application Status. The applicants will be able to sort and track the status of the application and will get email reminders for the same. Applicants can even make question bank of questions asked during the process and can view it during the next job process. A separated page will list out all the open job applications as per the API response from Job Boards.
Module Description	
Requirements	
Resume	

Job Tasker: A smart personal job application tracker for offcampus and oncampus applications and with question bank and Job Boards

Abstract	<u>Users:</u> <ul style="list-style-type: none">• Sign In: Users can Sign In to the application with the registered email Id and password• Register: Users can Register by creating an Id and Password• Resume: The uploaded resume to download and use the resume anytime• My Profile: Applicants personal Details for faster reference during application filling process <u>Job Application Data:</u> <ul style="list-style-type: none">• CREATE: Create Job Application Data• READ: Read Job Application Data and show them according to the status• UPDATE: Update Job Application Data like process status and other details• DELETE: Delete Job Application Data <u>Question Bank:</u> <ul style="list-style-type: none">• CREATE: Create new Questions asked during the process• READ: Read Questions while preparing for Interview Process• UPDATE: Update Questions if an efficient solution to the problem is encountered• DELETE: Delete Questions if needed <u>API:</u> <ul style="list-style-type: none">• List out all the open job applications as per the API response from the appropriate Job Boards
Module Description	
Requirements	
Resume	

Result: The code was successfully executed

Experiment – 3

Aim: Creating Login Page using HTML and CSS

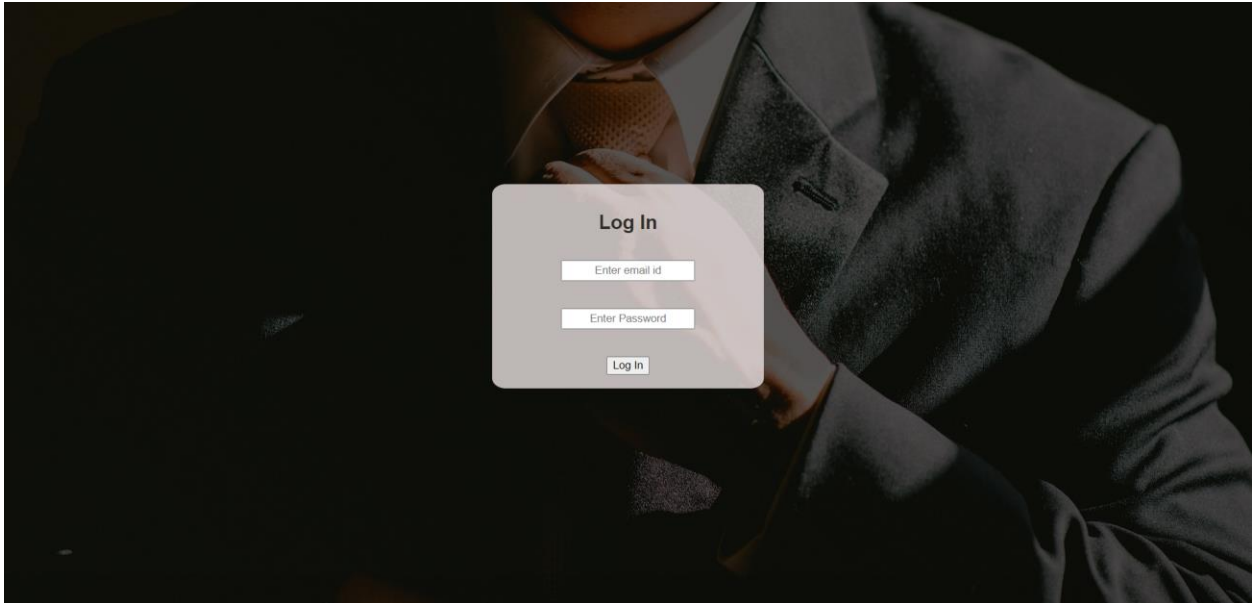
Procedure:

- Create the required HTML file and CSS file
- Add the required tags like input and button and elements in the file
- Save the file
- Open the files in the browser to render the output

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Login</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <div class="form-box">
    <form action="_blank" class="form-main">
      <h1>Log In</h1>
      <input type="email" id="username" placeholder="Enter email id" required>
      <input type="password" id="password" placeholder="Enter Password" required>
      <br>
      <button type="submit">Log In</button>
    </form>
  </div>
</body>
</html>
```

Output:



Result: The code was successfully executed

Experiment – 4

Aim: Creating Registration Page using HTML and CSS

Procedure:

- Create the required HTML file and CSS file
- Add the required tags and elements in the file
- Save the file
- Open the files in the browser to render the output

Code:

```
<!DOCTYPE html>

<html lang="en">
  <head>
    <title>Registration</title>

    <style>
      body {
        background-image: linear-
gradient(45deg, rgba(0, 0, 0, 0.62), rgba(0, 0, 0, 0.692)), url('bg.jpg');
        background-size: cover;
      }
      .hero {
        width: 1000px;
        height: 500px;
        vertical-align: middle;
        margin: 6% auto;
        background-color: rgba(180, 171, 171, 0.925);
        border-bottom-left-radius: 15%;
        border-top-right-radius: 15%;
        border-style: outset;
        border-color: white;
        border-width: 5px;
      }

      fieldset {
```



```

        width: max-content;
        height: min-content;
        margin-left: 50px;
        margin-top: 50px;
        float: left;
    }
</style>
</head>
<body>
    <div class="hero">
        <div class="form-box">
            <form action="_blank" id="main">
                <fieldset>
                    <legend>Details</legend>
                    <br>
                    <br>
                    <label for="name">Name: </label>
                    <input type="text" name="name" id="name" placeholder="Enter the name"/>
                    <br>
                    <br>
                    <label for="email">Email ID: </label>
                    <input type="email" name="email" id="email" placeholder="Enter the email Id"/>
                    <br>
                    <br>
                    <label for="pass">Password: </label>
                    <input type="password" name="Password" id="pass" placeholder="Enter the Password"/>
                    <br>
                    <br>
                    <label for="pass">Re-enter Password: </label>
                    <input type="password" name="Password" id="pass" placeholder="Enter the Password again"/>
                    <br>
                    <br>
                    <label for="linkedIn">LinkedIn: </label>
                    <input type="url" name="linkedIn" id="linkedIn" placeholder="LinkedIn URL"/>
                    <br>
                    <br>
                    <label for="dob">Date of Birth: </label>
                    <input type="date" name="dob" id="dob" placeholder="Enter the Date of Birth"/>
                    <br>
                    <br>
                    <label for="photo">Profile Photo: </label>

```

```

        <input type="file" id="photo" name="photo" accept="image/*" placeholder="Insert Profile Image"/>
    </fieldset>
    <fieldset>
        <legend>Other Details</legend>
        <br>
        <br>
        <label for="add">Address: </label>
        <textarea name="add" id="add" cols="20" rows="2" placeholder="Enter Address"></textarea>
        <br>
        <br>
        <label for="pincode">Pincode: </label>
        <input type="number" name="pincode" id="pincode" placeholder="Enter the pincode"/>
        <br>
        <br>
        <label for="mob">Mobile Number: </label>
        <input type="tel" name="mob" id="mob" placeholder="Enter the Mobile Number"/>
        <br>
        <br>
        <label for="slide">Rate your Technical Skills: </label>
        <input type="range" min="1" max="100" value="50" class="slider" id="slide"/>
        <br>
        <br>
        <label for="color">Fav Color: </label>
        <input type="color" name="color" id="color" placeholder="Choose Color"/>
        <br>
        <br>
        <label>Please select your gender: </label>
        <input type="radio" id="male" name="gender" value="male">
        <label for="male">Male</label>
        <input type="radio" id="female" name="gender" value="female">
        <label for="female">Female</label>
        <input type="radio" id="other" name="gender" value="other">
        <label for="other">Other</label>
        <br>
        <br>
        <label>Online Platforms: </label>
        <input type="checkbox" id="hackerrank" name="hackerrank" value="HackerRank">
        <label for="hackerrank">
            HackerRank</label>
        <input type="checkbox" id="codechef" name="codechef" value="CodeChef">

```

```
<label for="codechef">
    CodeChef</label>
<input type="checkbox" id="leetcode" name="leetcode" value="Le
etCode">

<label for="leetcode">
    LeetCode</label>

</fieldset>

</form>

</div>
<div style="margin-top: 44%; margin-left: 40%;">
    <button form="main" type="submit" style="font-size: 15px; border-
radius: 15px 50px; font-weight: 400;">Submit</button>
    <button form="main" type="reset" style="margin-left: 20px; font-
size: 15px; border-radius: 15px 50px; font-weight: 400;">Reset</button>
</div>

</div>

</body>
</html></div></body></html>
```

Output:

The image shows a web form with two main sections: 'Details' and 'Other Details'. The 'Details' section contains the following fields:

- Name:
- Email ID:
- Password:
- Re-enter Password:
- LinkedIn:
- Date of Birth:
- Profile Photo: No file chosen

The 'Other Details' section contains the following fields:

- Address:
- Pincode:
- Mobile Number:
- Rate your Technical Skills:
- Fav Color:
- Please select your gender: ☐ Male ☐ Female ☐ Other
- Online Platforms: ☐ HackerRank ☐ CodeChef ☐ LeetCode

At the bottom of the form are two buttons: and .

Result: The code was successfully executed

Experiment – 5

Aim: Add validation using Regular Expression to login and registration page using JavaScript

Procedure:

- Create the required HTML file, CSS file and JS file
- Add the required tags and elements in both the HTML and CSS file
- Add the regular expression in the script tag or the JS file to validate the user inputs
- Save the files
- Open the files in the browser to render the output

Code:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Registration</title>

    <style>
      body {
        background-image: linear-
gradient(45deg, rgba(0, 0, 0, 0.62), rgba(0, 0, 0, 0.692)), url('bg.jpg');
        background-size: cover;
      }
      .hero {
        width: 1000px;
        height: 500px;
        vertical-align: middle;
        margin: 6% auto;
        background-color: rgba(180, 171, 171, 0.925);
        border-bottom-left-radius: 15%;
```

```

        border-top-right-radius: 15%;
        border-style: outset;
        border-color: white;
        border-width: 5px;
    }

    fieldset {
        width: max-content;
        height: min-content;
        margin-left: 50px;
        margin-top: 50px;
        float: left;
    }
</style>
</head>
<body>
    <div class="hero">
        <div class="form-box">
            <form id="main" action="_blank" method="POST" onsubmit="return validate() ">

                <fieldset>
                    <legend>Details</legend>
                    <br>
                    <br>
                    <label for="name">Name:
                    </label>
                    <input type="text" name="name" id="name" placeholder="Enter the name"/>

                    <br>
                    <br>
                    <label for="email">Email ID:
                    </label>
                    <input type="email" name="email" id="email" placeholder="Enter the email Id"/>

                    <br>
                    <br>
                    <label for="pass">Password:
                    </label>
                    <input type="password" name="Password" id="pass" placeholder="Enter the Password"/>

                    <br>
                    <br>
                    <label for="pass">Re-enter Password:
                    </label>
                    <input type="password" name="Password" id="pass" placeholder="Enter the Password again"/>

                    <br>
                    <br>

```

```

        <label for="linkedIn">LinkedIn:
    </label>
    <input type="url" name="linkedIn" id="linkedIn" placeholder="L
linkedIn URL"/>

    <br>
    <br>
    <label for="dob">Date of Birth:
    </label>
    <input type="date" name="dob" id="dob" placeholder="Enter the
Date of Birth"/>

    <br>
    <br>
    <label for="photo">Profile Photo:
    </label>
    <input type="file" id="photo" name="photo" accept="image/*" pl
aceholder="Insert Profile Image"/>
    </fieldset>
    <fieldset>
        <legend>Other Details</legend>
        <br>
        <br>
        <label for="add">Address:
        </label>
        <textarea name="add" id="add" cols="20" rows="2" placeholder="
Enter Address"></textarea>
        <br>
        <br>
        <label for="pincode">Pincode:
        </label>
        <input type="number" name="pincode" id="pincode" placeholder="
Enter the pincode"/>
        <br>
        <br>
        <label for="mob">Mobile Number:
        </label>
        <input type="tel" name="mob" id="mob" placeholder="Enter the M
obile Number"/>
        <br>
        <br>
        <label for="slide">Rate your Technical Skills:
        </label>
        <input type="range" min="1" max="100" value="50" class="slider
" id="slide"/>
        <br>
        <br>
        <label for="color">Fav Color:
        </label>

```

```

        <input type="color" name="color" id="color" placeholder="Choose Color"/>

        <br>
        <br>
        <label>Please select your gender:
        </label>
        <input type="radio" id="male" name="gender" value="male">
        <label for="male">Male</label>
        <input type="radio" id="female" name="gender" value="female">
        <label for="female">Female</label>
        <input type="radio" id="other" name="gender" value="other">
        <label for="other">Other</label>
        <br>
        <br>
        <label>Online Platforms:
        </label>
        <input type="checkbox" id="hackerrank" name="hackerrank" value="HackerRank">
        <label for="hackerrank">
            HackerRank</label>
        <input type="checkbox" id="codechef" name="codechef" value="CodeChef">
        <label for="codechef">
            CodeChef</label>
        <input type="checkbox" id="leetcode" name="leetcode" value="LeetCode">
        <label for="leetcode">
            LeetCode</label>

        </fieldset>

    </form>

</div>
<div style="margin-top: 44%; margin-left: 40%;">
    <button form="main" type="submit" style="font-size: 15px; border-radius: 15px 50px; font-weight: 400;">Submit</button>
    <button form="main" type="reset" style="margin-left: 20px; font-size: 15px; border-radius: 15px 50px; font-weight: 400;">Reset</button>
</div>

</div>
<script>
    function validate() {
        non_valid = []

        // Email
        var email = document.getElementById('email').value;

```



```

var pattern = new RegExp("^[a-zA-Z0-9\\.]+@[a-zA-Z0-9-
])+(\.{1}) ([a-zA-Z]{2,8}) (\.)?([a-zA-Z]{2,8})?$", "g")

if (! pattern.test(email)) {
    non_valid.push('Invalid Email')
}

// Password
var password = document.getElementById('pass').value;
pattern = new RegExp("[a-zA-Z0-9]{8,15}", "g")
if (! pattern.test(password)) {
    non_valid.push('Password should 8-
15 characters and should not contain special charcters')
}

// PhoneNumber
var phone = document.getElementById('mob').value;
pattern = new RegExp("^[\\d]{10,15}$", "gi")
if (! pattern.test(phone)) {
    non_valid.push('Phone number should contain only digits and should
be between 10 to 15 length')
}

// LinkedIn
var linkedIn = document.getElementById('linkedIn').value;
pattern = new RegExp("www.linkedin.com", "gi")
if (! pattern.test(linkedIn)) {
    non_valid.push('Invalid LinkedIn URL')
}

//Whole Validation
if (non_valid.length > 0) {
    alert(non_valid);
    non_valid = [];
    return false;
} else
    return true;

}

</script>

</body>
</html></div></body></html>

```

Output:

The image displays two screenshots of a web form, likely for user registration or profile creation. The form is divided into two main sections: 'Details' and 'Other Details'.

Top Screenshot (Form Filled):

- Details Section:**
 - Name: Enter the name
 - Email ID: Enter the email id
 - Password: Enter the Password
 - Re-enter Password: Enter the Password again
 - LinkedIn: LinkedIn URL
 - Date of Birth: dd-yyy-yyyy
 - Profile Photo: Choose File (No file chosen)
- Other Details Section:**
 - Address: Enter Address
 - Pincode: Enter the pincode
 - Mobile Number: Enter the Mobile Number
 - Rate your Technical Skills: (Slider bar)
 - Fav Color: (Color picker)
 - Please select your gender: ☐ Male ☐ Female ☐ Other
 - Online Platforms: ☐ HackerRank ☐ CodeChef ☐ LeetCode

Buttons: Submit, Reset

Bottom Screenshot (Error Message):

This page says
Invalid Email, Password should 8-15 characters and should not contain special characters, Phone number should contain only digits and should be between 10 to 15 length, Invalid LinkedIn URL

Buttons: OK

The form fields and layout are identical to the top screenshot, but an error message is displayed over the form, indicating validation failures for the Email, Password, Phone Number, and LinkedIn URL fields.

Result: The code was successfully executed

Experiment – 6

Aim: Create a dynamic web page using Servlet (Login and Registration)

Procedure:

- Create the java file in a package under a web project
- Add the required tags and elements in the files
- Instantiate the Database and Call the MySQL Database
- Validate the Login and the registration details with the Database
- Save the file
- Open the files in the browser to render the output

Code:

Registration.java

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package jobtasker;

import java.io.File;
import java.io.FileInputStream;
import java.io.IOException;
import java.io.InputStream;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.SQLException;
import java.time.LocalDate;
import java.util.logging.Level;
import java.util.logging.Logger;
```

```
import javax.servlet.ServletException;
import javax.servlet.annotation.MultipartConfig;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.Part;

@MultipartConfig(maxFileSize = 161772150)
public class registration extends HttpServlet {

    private String dbURL = "";
    private String dbUser = "root";
    private String dbPass = "root";

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

        //Name
        String name = request.getParameter("name");

        //Email
        String email = request.getParameter("email");

        //Password
        String password= request.getParameter("Password");

        //LinkedIn
        String linkedInURL = request.getParameter("linkedIn");

        //Date of Birth
        String dob = request.getParameter("dob");

        //Address
        String address = request.getParameter("add");

        //Pincode
        int pincode = Integer.parseInt(request.getParameter("pincode"));

        //Mobile
        String mob = request.getParameter("mob");

        //FavColor
        String favColor = request.getParameter("color");

        //Gender
        String gender = request.getParameter("gender");
```

```

//Platform
String platform = request.getParameter("platform");

//Profile Image
InputStream inputStream = null;
Part filePart = request.getPart("photo");
if (filePart != null && filePart.getSize() != 0) {
    inputStream = filePart.getInputStream();
    System.out.println(filePart.getSize());
}else{
    inputStream = new FileInputStream(new File(getServletContext().getRealPath(
("default_pic.png"))));
}

Connection con = null;
try {
    Class.forName("com.mysql.cj.jdbc.Driver");
    con = DriverManager.getConnection("jdbc:mysql://localhost:3306/mysql?zeroD
ateTimeBehavior=convertToNull&autoReconnect=true&useSSL=false", "root", "root");
    String query = "INSERT INTO jobtasker.user(email, password, name, linkedin
, dob, address, pincode, mob, favcolor, gender,"
        + "platform,dp) VALUES(?,?,?,?,?,?,?,?,?,?,?,?,?)";

    String query2 = "CREATE TABLE jobtasker.`"+email+"`(`id` INT NOT NULL AUTO
_INCREMENT,`title` VARCHAR(300) NOT NULL," +
    "`url` VARCHAR(1000),`jobDescription` TEXT,`applydate` DATE NOT NULL,`status` VARCHA
R(100) NOT NULL,PRIMARY KEY (`id`), `company` VARCHAR(200) NOT NULL)";
    PreparedStatement ps = con.prepareStatement(query);
    ps.setString(1, email);
    ps.setString(2,password);
    ps.setString(3,name);
    ps.setString(4,linkedInURL);
    ps.setString(5, dob);
    ps.setString(6,address);
    ps.setInt(7, pincode);
    ps.setString(8, mob);
    ps.setString(9,favColor);
    ps.setString(10,gender);
    ps.setString(11,platform);
    ps.setBlob(12,inputStream);
    int row = ps.executeUpdate();
    if(row!=0){
        PreparedStatement ps2 = con.prepareStatement(query2);
        System.out.print("Creation of table status: " + ps2.execute());
        response.sendRedirect("login.html");
    }
}else{

```

```

        response.sendRedirect("register.html");
    }

    } catch (ClassNotFoundException | SQLException ex) {
        Logger.getLogger(registration.class.getName()).log(Level.SEVERE, null, ex)
;
    } finally {
        if (con != null) {
            // closes the database connection
            try {
                con.close();
            } catch (SQLException ex) {
                System.out.print(ex);
            }
        }
    }
}
}
}

```

login.java

```

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package jobtasker;

import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.servlet.ServletException;
import javax.servlet.http.Cookie;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

class dbCheck {

```

```

        static Boolean login(String email, String password) throws ClassNotFoundException,
        SQLException{
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/my
            sql?zeroDateTimeBehavior=convertToNull&autoReconnect=true&useSSL=false", "root", "root
            ");

            PreparedStatement ps = con.prepareStatement("select * from jobtasker.user wh
            ere email=? and password=?");
            ps.setString(1, email);
            ps.setString(2, password);
            ResultSet rs = ps.executeQuery();
            Boolean result = rs.next();
            return result;
        }
    }

    public class loginmain extends HttpServlet {

        @Override
        protected void doPost(HttpServletRequest request, HttpServletResponse response)
            throws ServletException, IOException {
            String email = request.getParameter("email");
            String password = request.getParameter("password");
            System.out.println("Login Requested");
            PrintWriter out = response.getWriter();
            Boolean success;
            try {
                success = dbCheck.login(email, password);
                System.out.println("Login complete " + success);
                if(success){
                    Cookie ck = new Cookie("jobtasker_user", email);
                    response.addCookie(ck);
                    response.sendRedirect("home.jsp");
                }
            } else{
                out.println("Login Failed");
                response.sendRedirect("login.html");
            }
        } catch (ClassNotFoundException ex) {
            Logger.getLogger(loginmain.class.getName()).log(Level.SEVERE, null, ex);
            System.out.println(ex);
            response.sendRedirect("index.html");
        } catch (SQLException ex) {
            Logger.getLogger(loginmain.class.getName()).log(Level.SEVERE, null, ex);
            System.out.println(ex);
            response.sendRedirect("index.html");
        }
    }
}

```



Output:

Logout



Welcome, Admin JobTasker !!

Job Records

Blogs

Result: The code was successfully executed

Experiment – 7

Aim: Create a dynamic web page using JSP (Profile Page)

Procedure:

- Create the JSP file inside the Java Web Project
- Add the required HTML files in it
- Validate successful login using Cookies else redirect to login Page
- Save the File
- Open the file in any browser

Code:

```
<%--
    Document      : home
    Created on    : Oct 23, 2020, 1:22:46 PM
    Author       : abhis
--%>

<%@page import="java.util.Base64"%>
<%@page import="java.io.OutputStream"%>
<%@page import="java.sql.Blob"%>
<%@page import="java.sql.ResultSet"%>
<%@page import="java.sql.Connection"%>
<%@page import="java.sql.PreparedStatement"%>
<%@page import="java.sql.DriverManager"%>
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
    <head>
        <link rel="apple-touch-icon" sizes="180x180" href="favicon/apple-touch-
icon.png">
        <link rel="icon" type="image/png" sizes="32x32" href="favicon/favicon-
32x32.png">
        <link rel="icon" type="image/png" sizes="16x16" href="favicon/favicon-
16x16.png">
        <link rel="manifest" href="favicon/site.webmanifest">
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
```

```

<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/dist
/css/bootstrap.min.css" integrity="sha384-
TX8t27EcRE3e/ihU7zmQxVncDAy5uIKz4rEkgIXeMed4M0jlfIDPvg6uqKI2xXr2" crossorigin="anonymo
us">

<title>Home </title>
<style>
    img.center {
        display: block;
        margin: 0 auto;
    }
</style>
</head>
<body>
    <button class="btn btn-
danger" style="float:right; margin: 5px; padding: 1em" onclick="myFunction()">Logout</
button>

    <%
        String email = null;
        String name = null;
        String base64 = null;
        Cookie[] ck = request.getCookies();
        for (Cookie c : ck) {
            if (c.getName().equals("jobtasker_user")) {
                email = c.getValue();
                break;
            }
        }
        if (email == null || email == "") {
            response.sendRedirect("index.html");
        } else {
            Connection con = null;
            Class.forName("com.mysql.cj.jdbc.Driver");
            con = DriverManager.getConnection("jdbc:mysql://localhost:3306/mysql?z
eroDateTimeBehavior=convertToNull&autoReconnect=true&useSSL=false", "root", "root");
            String query = "Select * from jobtasker.user where email=?";
            PreparedStatement ps = con.prepareStatement(query);
            ps.setString(1, email);
            ResultSet rs = ps.executeQuery();
            rs.next();
            name = rs.getString("name");
            byte[] img = rs.getBytes("dp");
            base64 = Base64.getEncoder().encodeToString(img);
        }
    %>
    <br>
    <br>
    <br>
    <br>

```

```

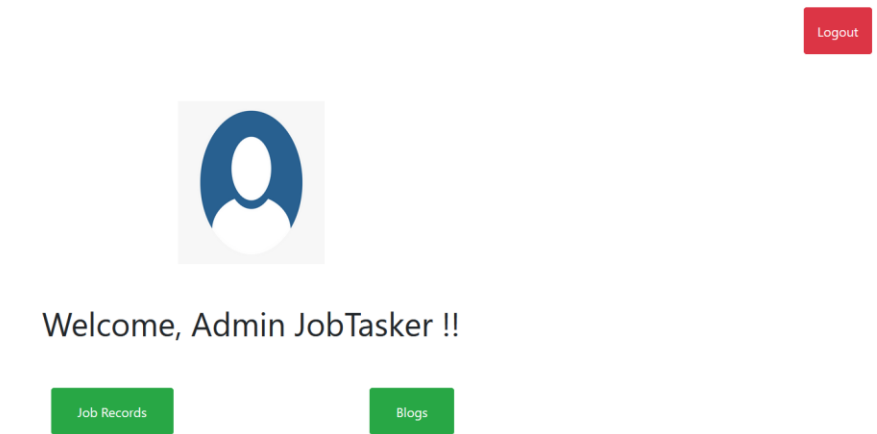
        <br>
        
        <br>
        <br>
        <h1 align="center">Welcome, <%=name%> !!</h1>
        <br>
        <br>
        <div class="row">
            <div class="col-4"> </div>
            <div class="col-2">
                <a class="btn btn-
success" target="_blank" href="http://localhost/records_php/records.php" style="padding-left: 2em; padding-right:2em; padding-top:1em; padding-bottom:1em"> Job Records </a>
            </div>
            <div class="col-1"> </div>
            <div class="col-1">
                <a class="btn btn-
success" href="http://localhost/records_php/blogs.php?name=<%=name%>" style="padding-left: 2em; padding-right:2em; padding-top:1em; padding-bottom:1em"> Blogs </a>
            </div>
            <div class="col-4"> </div>

        </div>
        <script>
            function myFunction() {
                console.log("Called");
                var date = new Date();
                date.setDate(date.getDate() - 1);
                document.cookie = "jobtasker_user=; Expires=Thu, 01 Jan 1970 00:00:01 GMT; path=/;";
                location.reload();
            }
        </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>

```

Output:



Result: The code was successfully executed

Experiment – 8

Aim: Create a dynamic web page using PHP with database (Records and Blogs)

Procedure:

- Create the required php file
- Add the php tags
- Call and Instantiate the Database
- Perform the required queries and execute
- Save the file
- Open file in Desired Browser to render the output

Code:

```
<html>
<head>
<!-- CSS -->
<title> Records </title>
  <!-- Required meta tags -->
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1, shrink-
to-fit=no">
  <link rel="apple-touch-
icon" sizes="180x180" href="http://localhost:15459/favicon/apple-touch-icon.png">
<link rel="icon" type="image/png" sizes="32x32" href="http://localhost:15459/favi
con/favicon-32x32.png">
<link rel="icon" type="image/png" sizes="16x16" href="http://localhost:15459/favi
con/favicon-16x16.png">
<link rel="manifest" href="http://localhost:15459/favicon/site.webmanifest">
<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/dist/cs
s/bootstrap.min.css" integrity="sha384-
TX8t27EcRE3e/ihU7zmQxVncDAy5uIKz4rEkgIXeMed4M0jlfIDPvg6uqKI2xXr2" crossorigin="an
onymous">
</head>
<body>
```

```

<nav class="navbar navbar-light bg-light">
  <a class="btn btn-danger" href="records.php">Back</a>
</nav>

<?php
$isUpdate = false;
if(isset($_GET['editId']))
{
    $isUpdate = true;
}

?>

<?php
if(isset($_COOKIE["jobtasker_user"]))
{

    try
    {
        define('DB_SERVER', 'localhost:3306');
        define('DB_USERNAME', 'root');
        define('DB_PASSWORD', 'root');
        define('DB_DATABASE', 'jobtasker');
        $db = mysqli_connect(DB_SERVER,DB_USERNAME,DB_PASSWORD,DB_DATABASE);

        // Checking connection
        if (!$db)
        {
            die("Connection failed: " . mysqli_connect_error());
        }

        $email = $_COOKIE["jobtasker_user"];
        $title = null;
        $url = null;
        $jobDescription = null;
        $applydate = null;
        $status = null;
        $company = null;

        if ($_SERVER["REQUEST_METHOD"] == "POST") {
            $process_type = $_POST['process_type'];

            $title = $_POST['title'];
            $url = $_POST['url'];
            $jobDescription = $_POST['jobDescription'];

```

```

        $applydate = $_POST['applydate'];
        $status = $_POST['status'];
        $company = $_POST['Company'];

        try {

            if($process_type == -1)
            {
                $insertion = "INSERT INTO jobtasker.`$email`(title,url,jobDescription,applydate,status,company) VALUES ('$title','$url','$jobDescription','$applydate','$status','$company')";
                if (mysqli_query($db, $insertion)) {
                    echo "<script>alert('Success');";
                    window.location.replace('records.php');</script>";
                } else {
                    throw new Exception("Error Processing Request", 1);
                }
            }
            else{
                $updatation = "UPDATE jobtasker.`$email` SET title='$title',url='$url',jobDescription='$jobDescription',applydate='$applydate',status='$status',company='$company' WHERE id=$process_type";
                if (mysqli_query($db, $updatation)) {
                    echo "<script>alert('Success');";
                    window.location.replace('records.php');</script>";
                } else {
                    throw new Exception("Error Processing Request", 1);
                }
            }

        } catch (\Throwable $th) {
            echo "<script>alert('Something Went Wrong');";
            window.location.replace('records_form.php');</script>";
        }

    }

?>
<center>
<form class="form-horizontal justify-content-center" method="post" action="<?php echo htmlspecialchars($_SERVER["PHP_SELF"]);?>">
<!-- Form Name -->

```

```

<legend>Job Record Form</legend>

<!-- Text input-->

<input name="process_type" id="process_type" type="hidden" value=<?php echo $isUp
date?$_GET['editId']:-1?>>
<div class="form-group">
    <label class="col-md-4 control-label" for="title">Job Title</label>
    <div class="col-md-4">
        <input id="title" name="title" type="text" placeholder="Enter the Job Title" cl
ass="form-control input-md" required="">

    </div>
</div>

<!-- Text input-->
<div class="form-group">
    <label class="col-md-4 control-label" for="Company">Company</label>
    <div class="col-md-4">
        <input id="Company" name="Company" type="text" placeholder="Enter company name"
class="form-control input-md" required="">

    </div>
</div>

<!-- Text input-->
<div class="form-group">
    <label class="col-md-4 control-label" for="url">Application URL</label>
    <div class="col-md-5">
        <input id="url" name="url" type="url" placeholder="Enter the application URL" c
lass="form-control input-md" required="">

    </div>
</div>

<div class="form-group">
    <label class="col-md-4 control-label" for="url">Application Date</label>
    <div class="col-md-5">
        <input id="applydate" name="applydate" type="date" placeholder="Enter the appli
cation date" class="form-control input-md" required="">

    </div>
</div>

<!-- Textarea -->

```



```

<div class="form-group">
  <label class="col-md-4 control-label" for="jobDescription">Job Description</label>
  <div class="col-md-4">
    <textarea class="form-control" id="jobDescription" name="jobDescription"></textarea>
  </div>
</div>

<!-- Select Basic -->
<div class="form-group">
  <label class="col-md-4 control-label" for="status">Status</label>
  <div class="col-md-4">
    <select id="status" name="status" class="form-control">
      <option value="Applied">Applied</option>
      <option value="Online Exam">Online Exam</option>
      <option value="In-person Exam">In-person Exam</option>
      <option value="Interview">Interview</option>
      <option value="Rejected">Rejected</option>
      <option value="Withdrawn">Withdrawn</option>
    </select>
  </div>
</div>
<div class="form-group">
  <button class="btn btn-success col-md-2" type='submit'>Submit</button>
  <button class="btn btn-outline-danger col-md-2" type='reset'>Reset</button>
</div>
</form>
</center>

<?php
  if($isUpdate)
  {
    $query = "SELECT * FROM jobtasker.`".$email."` WHERE id='".$$_GET['editId']."'";
    $result = mysqli_query($db, $query);

    $num = mysqli_num_rows($result);
    $row = mysqli_fetch_assoc($result);
    if($num == 1)
    {
      $title = $row['title'];
      $url = $row['url'];
      $jobDescription = $row['jobDescription'];
      $applydate = $row['applydate'];
    }
  }
}

```

```

        $status = $row['status'];
        $company = $row['company'];
        echo "<script>
        document.getElementById('title').value = '$title' ;
        document.getElementById('url').value = '$url' ;
        document.getElementById('Company').value = '$company';
        document.getElementById('jobDescription').value = '$jobDescri
ption';

        document.getElementById('status').value = '$status' ;
        document.getElementById('applydate').value = '$applydate' ;
        </script>";
    }
}

if($isUpdate)
{
    #Update query
}
else
{
    #insert query
}

} catch (\Throwable $th) {
    echo "Something wrong with Database";
}

}
else
{
    echo "Unauthorized Access";
    header("Location: http://localhost:15459");
}
?>

<!-- jQuery and JS bundle w/ Popper.js -->
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js" integrity="sha384-
DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj" crossorigin="an
onymous"></script>
<script src="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/dist/js/bootstrap.bundl
e.min.js" integrity="sha384-

```

```
ho+j7jyWK8fNQe+A12Hb8AhRq26LrZ/JpcUGGOn+Y7RsweNrtn/tE3MoK7ZeZDyx" crossorigin="anonymous"></script>
</body>
</html>
```

Output:

[Back](#)

Job Record Form

Job Title

Enter the Job Title

Company

Enter company name

Application URL

Enter the application URL

Application Date

mm / dd / yyyy

Job Description

Status

Applied

Submit

Reset

Result: The code was successfully executed

Experiment – 9

Aim: Creating XML file and XSLT to display the XML (Blogs)

Procedure:

- Create the XML file and XSLT file and PHP file
- Add the custom tags in the XML file
- Open the XML file and iterate over the data in the XML file
- Append new data in the XML file
- Code the XSLT to display the XML file
- Save the files
- Open the files in the desired browser to display the output

Code:

Blogs.php

```
<html>
<head>
<!-- CSS -->
<title> Blogs </title>

    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-
to-fit=no">
    <link rel="apple-touch-
icon" sizes="180x180" href="http://localhost:15459/favicon/apple-touch-icon.png">
<link rel="icon" type="image/png" sizes="32x32" href="http://localhost:15459/favi
con/favicon-32x32.png">
<link rel="icon" type="image/png" sizes="16x16" href="http://localhost:15459/favi
con/favicon-16x16.png">
```

```

<link rel="manifest" href="http://localhost:15459/favicon/site.webmanifest">

<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/dist/css/bootstrap.min.css" integrity="sha384-
TX8t27EcRE3e/ihU7zmQxVncDAy5uIKz4rEkgIXeMed4M0JlfiIDPvg6uqKI2xXr2" crossorigin="an
onymous">
<script src="https://kit.fontawesome.com/8874ccf928.js" crossorigin="anonymous"><
/script>
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js" integrity="sha384-
Dfxdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj" crossorigin="an
onymous"></script>
<script src="blogs.js"></script>
</head>
<body onload="loadXML()">

<nav class="navbar navbar-dark bg-dark">
  <a class="btn btn-
danger" href=?php echo (isset($_COOKIE['jobtasker_user']))?'http://localhost:15
459/home.jsp':"http://localhost:15459'; ?>>Back</a>
  <button class="btn btn-
primary" style="padding:1em;" onclick="loadXML()"><i class="fas fa-
sync" style="font-size:20px;"></i></button>
  <?php
    if(isset($_COOKIE['jobtasker_user']))
    {
      $name = $_GET['name']??'';
      echo "<a class='btn btn-
success' href='create_blog.php?name=".$name."'>Write Something</a>";
    }
  ?>
</nav>
<br>
<br>
<div id="blogs"></div>

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

```

Styles.xsl

```

<?xml version = "1.0" encoding = "UTF-8"?>
<!-- xsl stylesheet declaration with xsl namespace:
Namespace tells the xslt processor about which
element is to be processed and which is used for output purpose only
-->
<xsl:stylesheet version = "1.0"
xmlns:xsl = "http://www.w3.org/1999/XSL/Transform">
<!-- xsl template declaration:
template tells the xslt processor about the section of xml
document which is to be formatted. It takes an XPath expression.
In our case, it is matching document root element and will
tell processor to process the entire document with this template.
-->
  <xsl:template match = "/">
    <!-- HTML tags
    Used for formatting purpose. Processor will skip them and browser
    will simply render them.
    -->

    <html>
      <body>
        <h2>Blogs in XSLT</h2>

        <table border = "1">
          <tr bgcolor = "#9acd32">
            <th>Title</th>
            <th>Author</th>
            <th>Date</th>
            <th>Body</th>
          </tr>

          <!-- for-each processing instruction
          Looks for each element matching the XPath expression
          -->

          <xsl:for-each select="blogs/blog">
            <tr>

              <td><xsl:value-of select = "title"/></td>
              <td><xsl:value-of select = "author"/></td>
              <td><xsl:value-of select = "date"/></td>
              <td><xsl:value-of select = "body"/></td>

            </tr>
          </xsl:for-each>

```

```

        </table>
    </body>
</html>
</xsl:template>
</xsl:stylesheet>

```

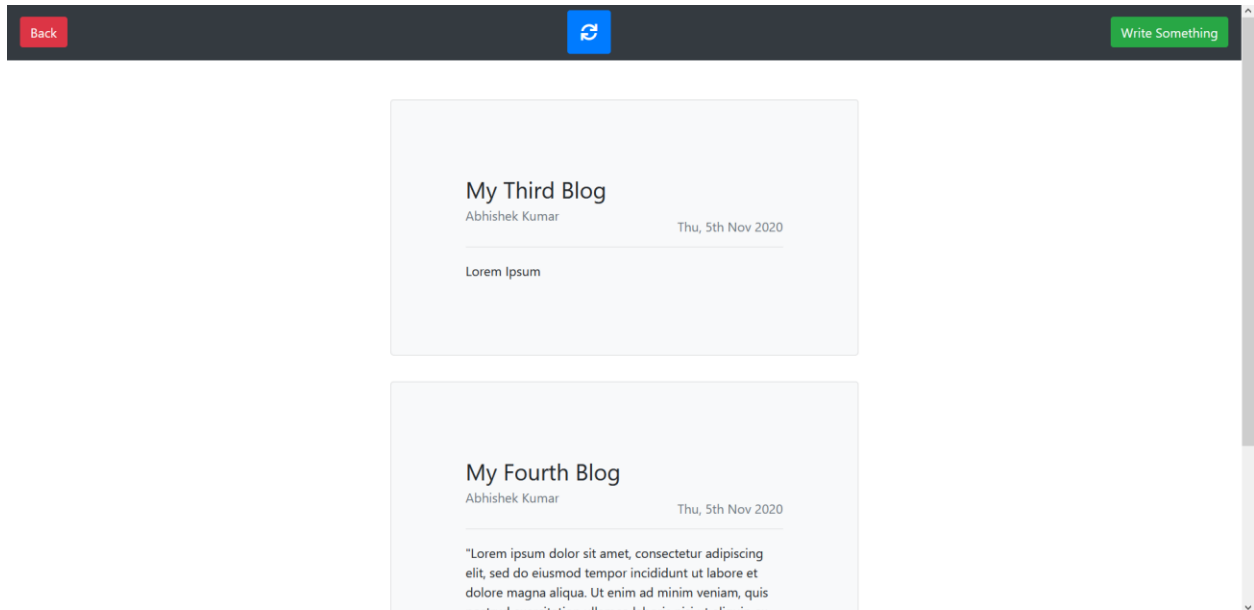
Blogs.xml

```

<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type = "text/xsl" href = "tests.xsl"?>
<blogs>
    <blog>
        <title>My Third Blog</title>
        <author>Abhishek Kumar</author>
        <date>Thu, 5th Nov 2020</date>
        <body>Lorem Ipsum</body>
    </blog>
    <blog>
        <title>My Fourth Blog</title>
        <author>Abhishek Kumar</author>
        <date>Thu, 5th Nov 2020</date>
        <body>"Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do ei
usmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam
, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequ
at. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore
eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in
culpa qui officia deserunt mollit anim id est laborum."</body>
    </blog>
</blogs>

```

Output:



Blogs.xml

Blogs in XSLT

Title	Author	Date	Body
My Third Blog	Abhishek Kumar	Thu, 5th Nov 2020	Lorem Ipsum
My Fourth Blog	Abhishek Kumar	Thu, 5th Nov 2020	"Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum."

Result: The code was successfully executed

Experiment – 10

Aim: Using AJAX to load XML contents (Blogs)

Procedure:

- Create the required php files
- Add a button to call the JS function
- Within the function implement AJAX with instantiating the XMLHttpRequest() object
- Based on the status code implement the further logic
- Save the file
- Display the file in the preferred browser

Code:

Blogs.js

```
function loadXML()
{
    var xhttp = new XMLHttpRequest();
    xhttp.onreadystatechange = function() {
        if (this.readyState == 4 && this.status == 200) {
            present(this);
        }
    };
    xhttp.open("GET", "blogs.xml", true);
    xhttp.send();
}

function present(data)
{
    $("#blogs").empty();
    xml = data.responseXML;
```

```

blogs = xml.getElementsByTagName("blog");
for(i=0; i<blogs.length; i++)
{
    var title = blogs[i].childNodes[0].innerHTML;
    var author = blogs[i].childNodes[1].innerHTML;
    var date = blogs[i].childNodes[2].innerHTML;
    var body = blogs[i].childNodes[3].innerHTML;

    //$('#blogs').html("<b>Hello world!</b>");

    var element = `<div class='card bg-
light' style='width: 36rem;margin:auto; margin-bottom:2rem;'>
<div class='card-body' style='margin:4.5em'>
    <h3 class='card-title'>`+title+`</h3>
    <h6 class='card-subtitle text-muted'>`+author+`</h6>
    <h6 class='card-subtitle text-muted' style='text-align: right;'>`+date+`</h6>
    <hr>
    <div class='card-text'>`+body+`</div>
</div>
</div>`;
    $("#blogs").append(element);
}
}

```

Blogs.php

```

<html>
<head>
<!-- CSS -->
<title> Blogs </title>

    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-
to-fit=no">
    <link rel="apple-touch-
icon" sizes="180x180" href="http://localhost:15459/favicon/apple-touch-icon.png">
<link rel="icon" type="image/png" sizes="32x32" href="http://localhost:15459/favi
con/favicon-32x32.png">

```

```

<link rel="icon" type="image/png" sizes="16x16" href="http://localhost:15459/favi
con/favicon-16x16.png">
<link rel="manifest" href="http://localhost:15459/favicon/site.webmanifest">

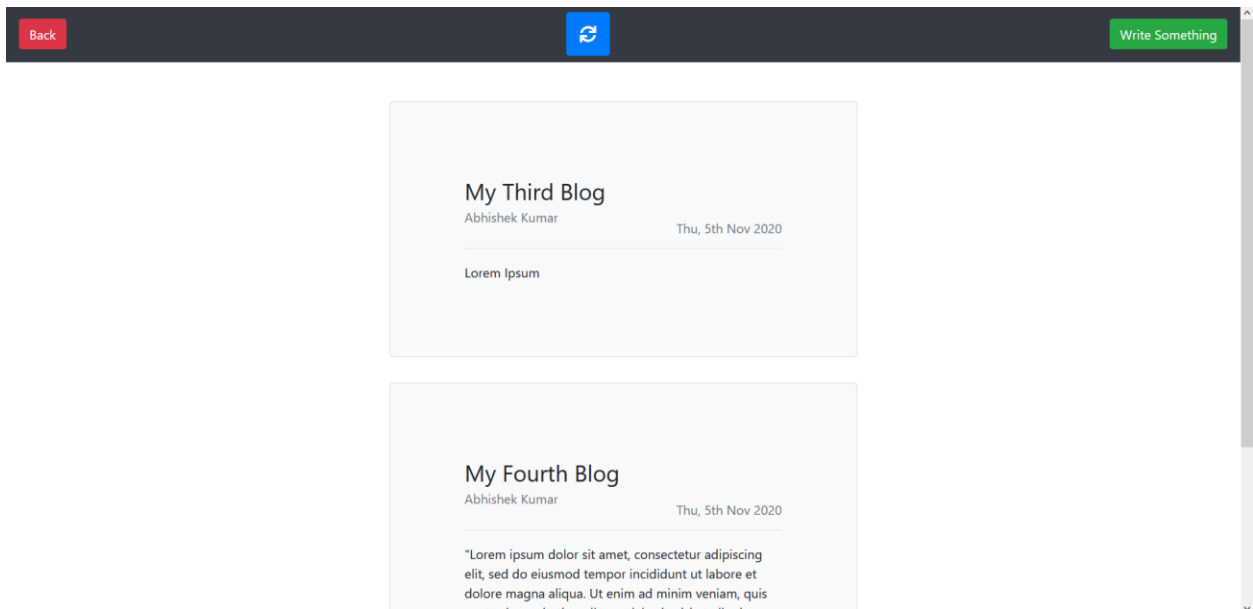
<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/dist/cs
s/bootstrap.min.css" integrity="sha384-
TX8t27EcRE3e/ihU7zmQxVncDAy5uIKz4rEkgIXeMed4M0jlIDPvg6uqKI2xXr2" crossorigin="an
onymous">
<script src="https://kit.fontawesome.com/8874ccf928.js" crossorigin="anonymous"><
/script>
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js" integrity="sha384-
DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXXaRkfj" crossorigin="an
onymous"></script>
<script src="blogs.js"></script>
</head>
<body onload="loadXML()">

<nav class="navbar navbar-dark bg-dark">
  <a class="btn btn-
danger" href=?php echo (isset($_COOKIE['jobtasker_user']))?'http://localhost:15
459/home.jsp':"http://localhost:15459"'; ?>>Back</a>
  <button class="btn btn-
primary" style="padding:1em;" onclick="loadXML()"><i class="fas fa-
sync" style="font-size:20px;"></i></button>
  <?php
    if(isset($_COOKIE['jobtasker_user']))
    {
      $name = $_GET['name']??"";
      echo "<a class='btn btn-
success' href='create_blog.php?name=".$name."'>Write Something</a>";
    }
  ?>
</nav>
<br>
<br>
<div id="blogs"></div>

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

```

Output:



Blogs.xml

Result: The code was successfully executed

Experiment – 11

Aim: Creating Webservices using Java (Motivational Quotes)

Procedure:

- Create the required Java file for the web services.
- Create a web service client
- Include the web service in the JSP file
- Save the file
- Run the server
- View the files in the preferred browser.

Code:

Home.jsp

```
<%-- start web service invocation --%><hr/>
<%
try {
    quotes_package.NewWebService_Service service = new quotes_package.NewWebService_Service();
    quotes_package.NewWebService port = service.getNewWebServicePort();

    // TODO process result here
    java.lang.String result = port.quotes(name);
    out.println("<center>" + result + "</center>");
} catch (Exception ex) {
    // TODO handle custom exceptions here
}
%>
<%-- end web service invocation --%><hr/>
```

Quotes.java

```

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package quotes_package;

import javax.ws.WebService;
import javax.ws.WebMethod;
import javax.ws.WebParam;
import java.util.Random;

/**
 *
 * @author abhis
 */
@WebService(serviceName = "NewWebService")
public class NewWebService {

    /**
     * Web service operation
     */
    @WebMethod(operationName = "quotes")
    public String quotes(@WebParam(name = "name") String name) {
        String[] arr = {
            "Whatever the mind of man can conceive and believe, it can achieve. - Napoleon Hill",
            "Strive not to be a success, but rather to be of value. -Albert Einstein",
            "You miss 100% of the shots you don't take. -Wayne Gretzky",
            "The most difficult thing is the decision to act, the rest is merely tenacity. -Amelia Earhart",
            "Every strike brings me closer to the next home run. -Babe Ruth",
            "Definiteness of purpose is the starting point of all achievement. - W. Clement Stone",
            "Life is what happens to you while you're busy making other plans. - John Lennon",
            "Life is 10% what happens to me and 90% of how I react to it. - Charles Swindoll",
            "The mind is everything. What you think you become. -Buddha",
            "Eighty percent of success is showing up. -Woody Allen",
            "I am not a product of my circumstances. I am a product of my decisions. - Stephen Covey",
        };
    }
}

```

```
        "You can never cross the ocean until you have the courage to lose sight of the  
        shore. -Christopher Columbus",  
        "Whether you think you can or you think you can't, you're right. -Henry Ford",  
        "Whatever you can do, or dream you can, begin it. Boldness has genius, power  
        and magic in it. -Johann Wolfgang von Goethe"  
    };  
  
    String s = "Hi " + name + ", todays quote is '" + arr[new Random().nextInt(arr  
.length)]+"'";  
    return s;  
}  
}
```

Output:

Welcome, Abhishek Kumar !!

[Job Records](#)

[Blogs](#)

Hi Abhishek Kumar, todays quote is 'Life is what happens to you while you're busy making other plans. -John Lennon'

Result: The code was successfully executed