

RAJALAKSHMI ENGINEERING COLLEGE
[AUTONOMOUS]
RAJALAKSHMI NAGAR, THANDALAM - 602105



Laboratory Record Note Book

Name :

Year / Branch / Section :

Register No :

College Roll No :

Semester :

Academic Year :

RAJALAKSHMI ENGINEERING COLLEGE
RAJALAKSHMI NAGAR, THANDALAM - 602105

BONAFIDE CERTIFICATE

Name : _____

Academic Year : _____ Semester : _____ Branch : _____

Register No :

Certified that is the bonafide record of work done by the

above student in the _____

Laboratory during the year 20 - 20

Signature of Faculty in-charge

Submitted for the practical examination held on _____

Internal Examiner

External Examiner

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Reg. No. :

Name : _____

Year : _____

Branch : _____

Sec : _____

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2		Create a web page using an embedded, external, and inline CSS file		
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EXPT NO: Create a web page to embed a map along with hot spot AND links.

DATE:

AIM:

To create a web page which includes a map and display the related information when a hot spot is clicked in the map.

PROCEDURE:

1. Create a html file with map tag.
2. Set the source attribute of the img tag to the location of the image and also set the use map attribute.
3. Specify an area with name, shape and href set to the appropriate values.
4. Repeat step 3 as many hot spots you want to put in the map.
5. Create html files for each and every hot spot the user will select.

Code:

ImageMap.html

```
<HTML>
```

```
<HEAD>
```

```
<TITLE>Image Map</TITLE> </HEAD>
```

```
<BODY>
```

```
 <map  
name="metroid"
```

```
id="metroid">
```

```
<area href="TamilNadu.html" shape="circle" coords="208,606,50"  
title="TamilNadu"/>
```

```
<area href="Karnataka.html" shape="rect" coords = "130,531,164,535" title  
="Karnataka" />
```

```
<area href="AndhraPradesh.html" shape="poly" coords =
```

```
"227,490,238,511,230,536,198,535,202,503" title ="Andhra Pradesh" />
```

```
</BODY>
```

TamilNadu.html

```
<HTML><HEAD>
<TITLE>About Tamil Nadu</TITLE>
</HEAD>
<BODY>
<CENTER><H1>Tamil Nadu</H1></CENTER> <HR>
<UL>
<LI>Area : 1,30,058 Sq. Kms.</LI>
<LI>Capital : Chennai</LI>
<LI>Language : Tamil</LI>
<LI>Population : 6,21,10,839</LI> </UL><hr>
<a href='ImageMap.html'>India Map</a>
</BODY>
</HTML>
```

Karnataka.html

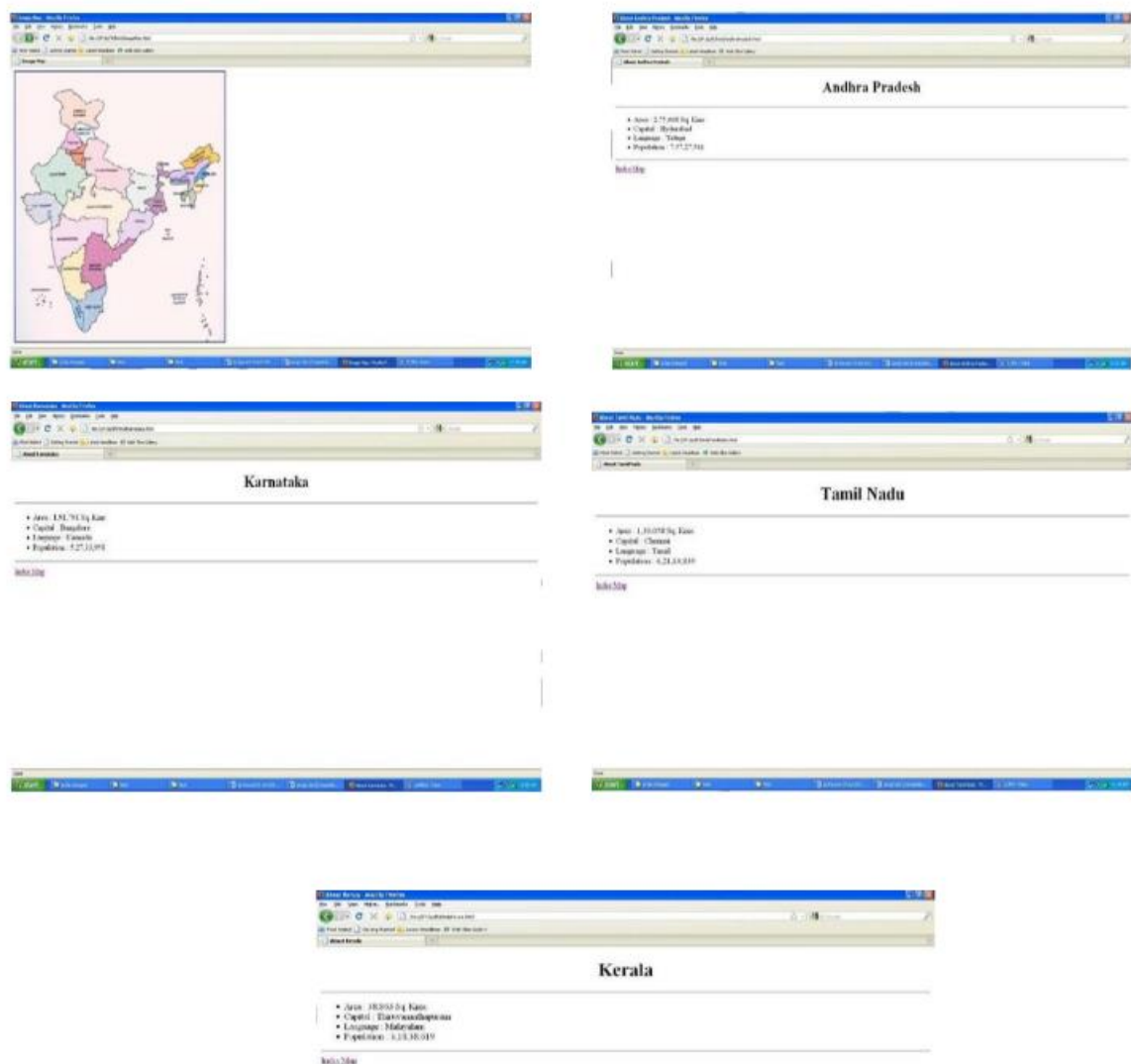
```
<HTML>
<HEAD>
<TITLE>About Karnataka</TITLE> </HEAD>
<BODY>
<CENTER><H1>Karnataka</H1></CENTER>
<HR>
5
<UL>
<LI>Area : 1,91,791 Sq. Kms</LI>
<LI>Capital : Bangalore</LI>
<LI>Language : Kannada</LI>
```

```
<LI>Population : 5,27,33,958</LI>
</UL>
<hr>
<a href='ImageMap.html'>India Map</a>
</BODY>
</HTML>
```

AndhraPradesh.html

```
<HTML>
<HEAD>
<TITLE>About Andhra Pradesh</TITLE> </HEAD>
<BODY>
<CENTER><H1>Andhra Pradesh</H1></CENTER> <HR>
<UL>
<LI>Area : 2,75,068 Sq. Kms</LI>
<LI>Capital : Hyderabad</LI>
<LI>Language : Telugu</LI>
</UL>
<hr>
<a href='ImageMap.html'>India Map</a>
</BODY>
</HTML>
```

Output:



RESULT:

Thus the creation of a web page which includes a map and display the related in-formation when a hot spot is clicked in the map was executed successfully.

EXPT NO: Create a web page using an embedded, external, and inline CSS file.

DATE:

AIM:

To create a web page that displays college information using various style sheet.

PROCEDURE:

1. Create a web page with frame sets consisting two frames
2. In the first frame include the links
3. In the second frame set display the web page of the link
4. Create a external style sheets
5. Create a embedded style sheets
6. Create a inline and internal style sheets and make it link to the external style sheets

Code:

Index.html:

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8">
```

```
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
  <title>Rajalakshmi Engineering College</title>
```

```
  <link rel="stylesheet" href="style.css">
```

```
  <style>
```



```
body {
    font-family: Arial, sans-serif;
    background-color: #f0f0f0;
    margin: 0;
    padding: 0;
    text-align: center;
}
/* Inline CSS */
.header {
    background-color: #333;
    color: #fff;
    padding: 20px;
    text-align: center;
}
img {
    display: block;
    margin: 0 auto;
    max-width: 100%;
}
</style>
</head>
<body>
    <header class="header">
        <h1>Rajalakshmi Engineering College</h1>
    </header>
    
```

```
<ul>
  <li><a href="departments.html">Departments</a></li>
  <li><a href="courses.html">About </a></li>
  <li><a href="faculty.html">Faculty Members</a></li>
  <li><a href="placement.html">Placement</a></li>
</ul>
</nav>

<footer>
  <p>&copy; 2024 Rajalakshmi Engineering College</p>
</footer>
</body>
</html>
```

Department.html:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Departments - Rajalakshmi Engineering College</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      background-color: #f0f0f0;
      margin: 0;
      padding: 0;
```

```
    text-align: center;
}
```

```
img {
    display: block;
    margin: 0 auto;
    max-width: 100%;
}
```

```
h1 {
    color: #333;
}
```

```
p {
    font-size: 16px;
    color: #555;
    line-height: 1.6;
    margin: 20px auto;
    max-width: 800px;
    text-align: left;
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<h1>Department</h1>
```

```

```

```
<p>Department of Computer Science & Design
```

Programmes Offered

UG - B.E. Computer Science and Design

With web extending in all circles of life, and most ventures expanding their web or mobile presence and intelligence with their partners and clients, demand for incorporating good design using rich media is increasing in all businesses. With increasing focus on user experience, the significance of Interaction Design and Design Methods is additionally expanding quickly in IT products and services.

Computer Science and Design (CSD) aims to develop graduates that are well versed with computing approaches, tools, and technologies, but are also experienced with Design approaches. The program will prepare students to work in the IT industry as well as digital design & media industry like gaming, animation, virtual/augmented reality, user interfaces etc., as well as allow students to take up higher studies in CS or in Design..</p>

</body>

</html>

Placement.html:

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Placement - Rajalakshmi Engineering College</title>

<style>

body {

font-family: Arial, sans-serif;

background-color: #f0f0f0;

```
margin: 0;
padding: 0;
text-align: center;
```

```
img {
  display: block;
  margin: 0 auto;
  max-width: 100%;
}
```

```
h1 {
  color: #333;
}
```

```
p {
  font-size: 16px;
  color: #555;
  line-height: 1.6;
  margin: 20px auto;
  max-width: 800px;
  text-align: left;
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<h1>Placement</h1>
```

The Training and Placement Cell is headed by Prof. I. Philip Praveen. Starting his career as a Lecturer in the Electrical & Electronics Engineering Department of REC, in the year 1998, he carved a niche for himself as an exemplary teacher with a passion for making the students employable by the Industry. He is currently an Assistant Professor in the Department. Working along senior Professors, he played a key role in the conceptualization and design of a path breaking program called "Residential Employability Training Camp". The roll out of this program led to a phenomenal increase in the number of students placed in Campus Recruitments.

His ability to network with Industries and other Professional societies led to the Institution entering into MoUs with the Confederation of Indian Industry (CII) and also becoming members of Education Promotion Society of India (EPSI), Indian Society for Training and Development (ISTD), National Association of Software Companies (NASSCOM), ICT Academy etc.

He also co-ordinates the overseas relations of the Institution handling issues like student recruitment and identifying areas of mutual collaboration between Institutions. He has represented the Institution in various education fairs at Kuwait, Sri Lanka, Sultanate of Oman and the GETEX Fair- Asia's largest education Fair at Dubai. He was part of the CII team to Singapore to study the best practices of higher education Institutions in Singapore. He was also selected to represent the Institution in the EPSI delegation to visit leading Technical Institutions in the United States in the year 2008. In June, 2011 he represented the Institution in NAFSA 2011 at Vancouver, Canada.

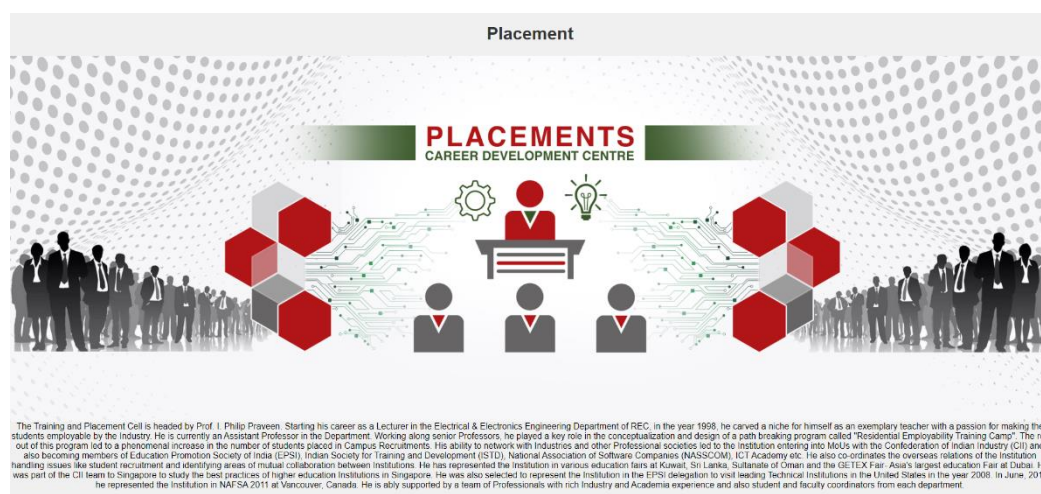
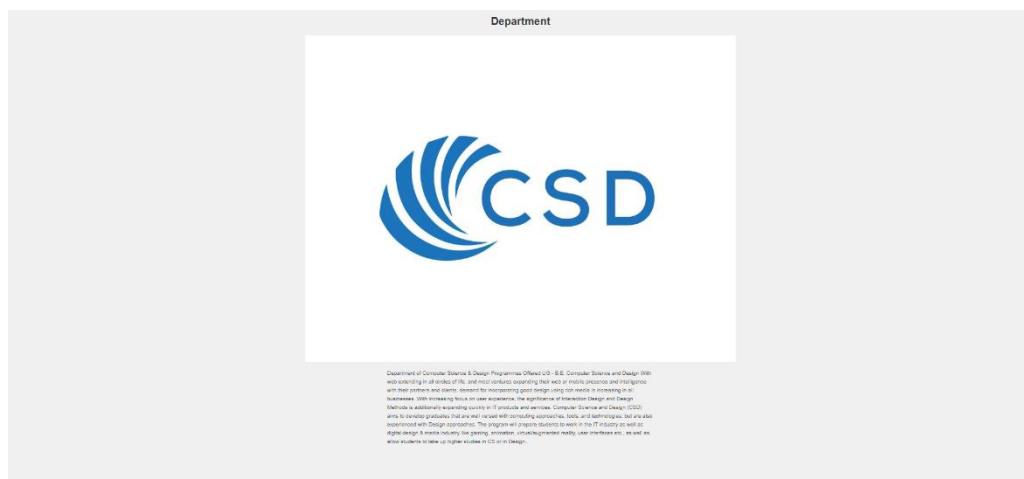
He is ably supported by a team of Professionals with rich Industry and Academia experience and also student and faculty coordinators from each department.

</p>

</body>

</html>

Output:



RESULT:

Thus the creation of a web page that displays college information using various style sheet was successfully executed and verified.

EXPT NO: Create a registration page along with validations.

DATE:

Aim:

To create a visually appealing registration form with validation for email addresses.

Procedure:

1. Layout Design:

Design the layout of the registration form, including input fields for username, email, and password, along with a submit button.

2. Styling:

Apply CSS to style the form elements, providing appropriate spacing, alignment, and background color to enhance visual appeal.

3. Email Validation:

Implement JavaScript to validate the email address entered by the user. Ensure that the email follows the standard format and contains the "@" symbol.

4. Error Handling:

Display error messages if the email entered by the user is invalid. These messages should provide clear guidance on how to correct the input.

5. Submission Handling:

Handle form submission events, ensuring that the form data is submitted only if all fields are filled correctly, including a valid email address. If any field is invalid, prevent form submission and prompt the user to correct the errors.

Code:

Index.html:

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Registration Page</title>

  <link rel="stylesheet" href="style.css">

</head>

<body>

  <div class="container">

    <h2>Registration Form</h2>

    <form id="registrationForm" action="#" method="post">

      <div class="form-group">

        <label for="username">Username:</label>

        <input type="text" id="username" name="username" required>

      </div>

      <div class="form-group">

        <label for="email">Email:</label>

        <input type="email" id="email" name="email" required>

        <span class="error-message" id="emailError"></span>

      </div>

      <div class="form-group">

        <label for="password">Password:</label>

        <input type="password" id="password" name="password" required>

      </div>

    </form>

  </div>

</body>

</html>
```

```
        <button type="submit">Register</button>
    </form>
</div>
<script src="script.js"></script>
</body>
</html>
```

Style.css:

```
body {
    font-family: Arial, sans-serif;
    background-color: #f0f0f0;
    margin: 0;
    padding: 0;
    display: flex;
    justify-content: center;
    align-items: center;
    height: 100vh;
}
.container {
    width: 400px;
    padding: 20px;
    background-color: #fff;
    border-radius: 8px;
    box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}
h2 {
    text-align: center;
```

```
margin-bottom: 20px;
}
form-group {
    margin-bottom: 20px;
}
label {
    display: block;
    margin-bottom: 5px;
}
input[type="text"],
input[type="email"],
input[type="password"] {
    width: 100%;
    padding: 10px;
    border-radius: 5px;
    border: 1px solid #ccc;
}
error-message {
    color: red;
    font-size: 12px;
    margin-top: 5px;
}
button {
    background-color: #007bff;
    color: #fff;
    border: none;
    padding: 10px 20px;
```

```
border-radius: 5px;
cursor: pointer;
width: 100%;
}
button:hover {
  background-color: #0056b3;
}
```

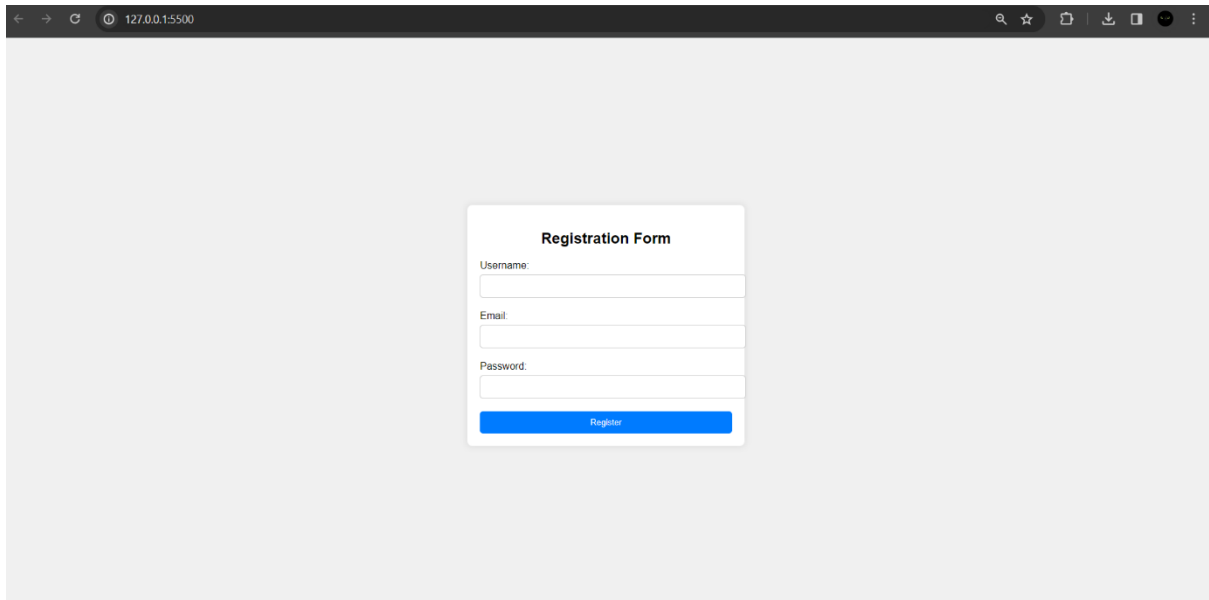
Script.js:

```
document.addEventListener('DOMContentLoaded', function () {
  const form = document.getElementById('registrationForm');
  const emailInput = document.getElementById('email');
  const emailError = document.getElementById('emailError');

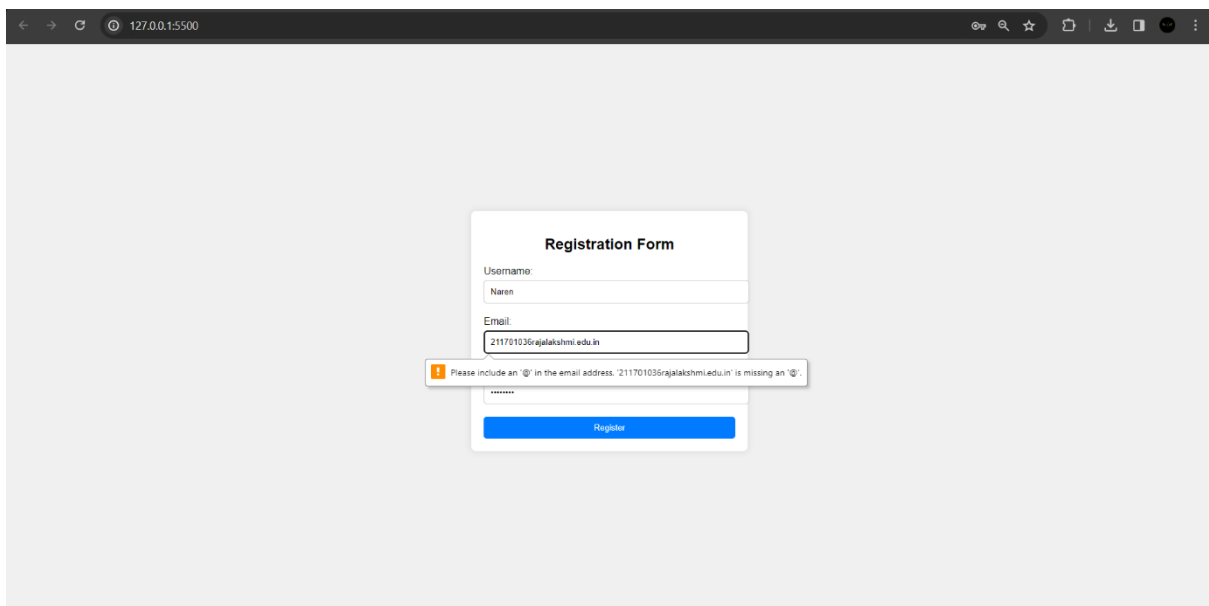
  form.addEventListener('submit', function (event) {
    if (!validateEmail(emailInput.value)) {
      emailError.textContent = 'Invalid email address';
      event.preventDefault();
    } else {
      emailError.textContent = "";
    }
  });

  function validateEmail(email) {
    const regex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
    return regex.test(email);
  }
});
```

Output:



A screenshot of a web browser displaying a registration form. The browser's address bar shows the URL 127.0.0.1:5500. The form is titled "Registration Form" and contains three input fields: "Username:", "Email:", and "Password:". Below these fields is a blue button labeled "Register".



A screenshot of a web browser displaying the same registration form. The "Username:" field is filled with "Naren". The "Email:" field is filled with "211701036rajalakshmi.edu.in". A red error message box is displayed below the email field, stating: "Please include an '@' in the email address. '211701036rajalakshmi.edu.in' is missing an '@'." The "Password:" field is empty. The blue "Register" button is still visible at the bottom.

Result:

A visually appealing registration form with email validation ensures user inputs adhere to standard email format, enhancing data accuracy and user experience.

EXPT NO:

JSP - LIBRARY MANAGEMENT SYSTEM

DATE:

Aim:

To develop a JavaScript program that validates the controls in the forms of the Library Management System application, ensuring data integrity and user input correctness.

Procedure:

1. Identify forms requiring validation in the Library Management System.
2. Define validation rules for each form field.
3. Develop JavaScript functions for validation based on defined rules.
4. Integrate validation functions with form submission processes.
5. Prevent form submission if data fails validation, display error messages.
6. Thoroughly test and debug the validation functionality for usability and reliability.

Code:

Index.html:

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8">
```

```
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
  <title>Library Management System</title>
```

```
  <link rel="stylesheet" href="styles.css">
```

```
</head>
<body>
  <h2>Library Management System</h2>
  <form id="bookForm">
    <label for="title">Title:</label>
    <input type="text" id="title" name="title" required><br>
    <label for="author">Author:</label>
    <input type="text" id="author" name="author" required><br>
    <label for="year">Year:</label>
    <input type="number" id="year" name="year" required><br>
    <button type="submit">Add Book</button>
  </form>
  <table id="bookTable">
    <tr>
      <th>Title</th>
      <th>Author</th>
      <th>Year</th>
      <th>Action</th>
    </tr>
  </table>

  <script>
    const bookForm = document.getElementById('bookForm');
    const bookTable = document.getElementById('bookTable');

    bookForm.addEventListener('submit', function(event) {
```

```
event.preventDefault();
```

```
const title = document.getElementById('title').value;
```

```
const author = document.getElementById('author').value;
```

```
const year = document.getElementById('year').value;
```

```
addBook(title, author, year);
```

```
bookForm.reset();
```

```
});
```

```
function addBook(title, author, year) {
```

```
    const row = bookTable.insertRow(-1);
```

```
    const titleCell = row.insertCell(0);
```

```
    const authorCell = row.insertCell(1);
```

```
    const yearCell = row.insertCell(2);
```

```
    const actionCell = row.insertCell(3);
```

```
    titleCell.textContent = title;
```

```
    authorCell.textContent = author;
```

```
    yearCell.textContent = year;
```

```
    actionCell.innerHTML = '<button  
onclick="editBook(this)">Edit</button>';
```

```
}
```

```
function editBook(button) {
```

```
    const row = button.parentElement.parentElement;
```

```
    const title = row.cells[0].textContent;
```

```
    const author = row.cells[1].textContent;
```



```
const year = row.cells[2].textContent;

const newTitle = prompt('Enter new title:', title);
const newAuthor = prompt('Enter new author:', author);
const newYear = prompt('Enter new year:', year);

if (newTitle && newAuthor && newYear) {
    row.cells[0].textContent = newTitle;
    row.cells[1].textContent = newAuthor;
    row.cells[2].textContent = newYear;
}
}
</script>
</body>
</html>
```

Style.css:

```
body {
    font-family: Arial, sans-serif;
    background-color: #f0f0f0;
    margin: 0;
    padding: 0;
}

.container {
    max-width: 800px;
    margin: 20px auto;
    padding: 20px;
```

```
background-color: #fff;
border-radius: 5px;
box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}
```

```
h2 {
  text-align: center;
}
```

```
form {
  margin-bottom: 20px;
}
```

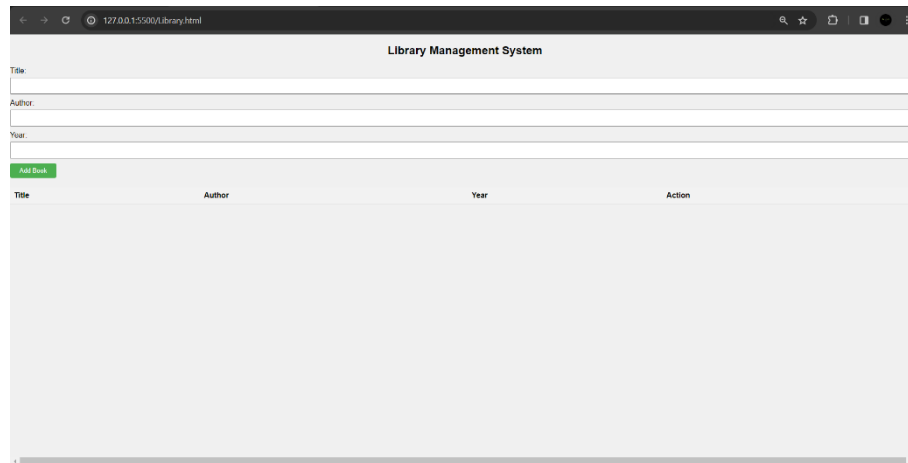
```
form label {
  display: block;
  margin-bottom: 5px;
}
```

```
form input[type="text"],
form input[type="number"] {
  width: calc(100% - 12px);
  padding: 8px;
  margin-bottom: 10px;
}
```

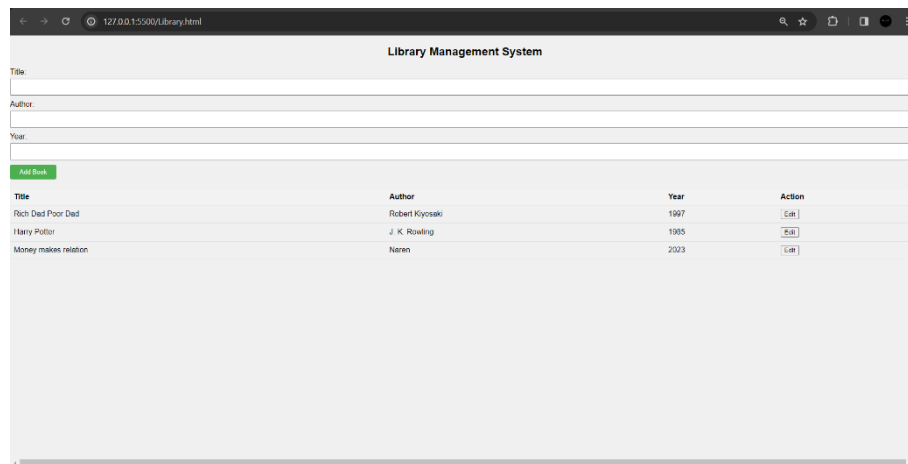
```
form button[type="submit"] {
  padding: 8px 20px;
  background-color: #4CAF50;
  color: white;
  border: none;
  border-radius: 4px;
  cursor: pointer;
```

```
        transition: background-color 0.3s;
    }
    form button[type="submit"]:hover {
        background-color: #45a049;
    }
    table {
        width: 100%;
        border-collapse: collapse;
    }
    th, td {
        padding: 8px;
        border-bottom: 1px solid #ddd;
        text-align: left;
    }
    th {
        background-color: #f2f2f2;
    }
    tr:hover {
        background-color: #f5f5f5;
    }
```

Output:

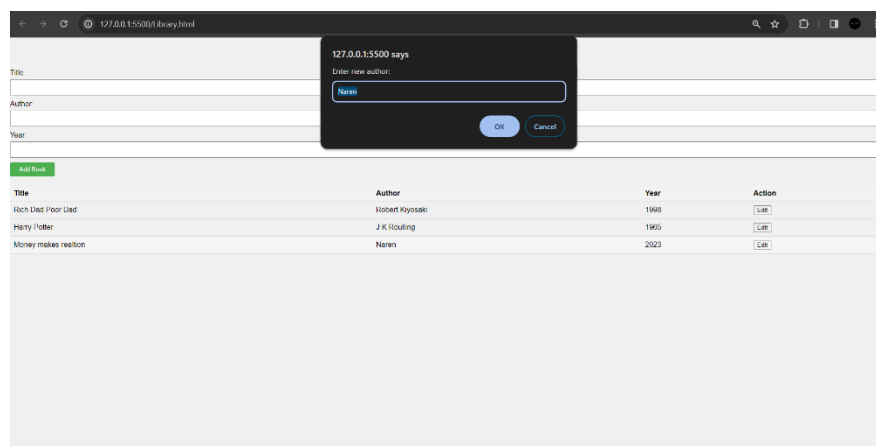


A browser window showing a web application titled "Library Management System". The page has a dark header bar with navigation icons. Below the header, there are three input fields labeled "Title:", "Author:", and "Year:". A green button labeled "Add Book" is positioned below the "Year:" field. Below the button is a table with four columns: "Title", "Author", "Year", and "Action". The table is currently empty.



The same browser window showing the "Library Management System". The input fields for "Title:", "Author:", and "Year:" are still empty. The "Add Book" button is still present. The table below now contains three rows of data:

Title	Author	Year	Action
Rich Dad Poor Dad	Robert Kiyosaki	1997	Edit
Harry Potter	J. K. Rowling	1995	Edit
Money makes relation	Naren	2023	Edit



The same browser window showing the "Library Management System". A modal dialog box is open in the center of the screen. The dialog has a title bar that says "127.0.0.1:5500 says" and a subtitle "Enter new author:". Below the subtitle is a text input field containing the name "Naren". At the bottom of the dialog are two buttons: "OK" and "Cancel". The background form is partially obscured by the dialog.

Result:

Developed JavaScript program to validate Library Management System forms, ensuring data integrity and input correctness.

EXPT NO: PHP – Employee Details

DATE:

Aim:

PHP program for Employee Details, which includes EmpID, Name, Designation, Salary, DOJ, etc., to connect with the database and execute queries to retrieve and update data.

Procedure:

Relations using MYSQL for a banking application given below enforcing primary key and

foreign key constraints:

EMPDETAILS (EMPID, ENAME, DESIG, DEPT, DOJ, SALARY)

1. Open MySQL.

2. Create a database.

```
mysql> create database rec;
```

Query OK, 1 row affected (0.05 sec)

3. Connect to the database.

```
mysql> use rec;
```

Database changed

4. Create the following tables:

```
mysql> create table empdetails(empid int primary key,
```

```
-> ename varchar(20), desig varchar(20), dept varchar(20),
```

```
-> doj date, salary int);
```

Query OK, 0 rows affected (0.08 sec)

PROGRAM:

config.php

```
<?php
```

```
$databaseHost = 'localhost';
```

```
$databaseName = 'rec';
```

```
$databaseUsername = 'root';
```

```
$databasePassword = 'admin';
```

```
$mysqli = mysqli_connect($databaseHost, $databaseUsername,
```

```
$databasePassword, $databaseName);
```

```
?>
```

index.php

```
<?php
```

```
//including the database connection file
```

```
include_once("config.php");
```

```
//fetching data in descending order (lastest entry first)
```

```
$result=mysqli_query($mysqli, "SELECT * FROM empdetails ORDER BY  
empid DESC");
```

```
?>
```

```
<html>
```

```
<head>
```

```
<title>Homepage</title>
```

```
</head>
```

```
<body>
```

```
<h1 align="center">Employee Details</h1>
```

```
<hr />
```

```
<a href="add.html">Add New Data</a><br/><br/>
```

```
<table width='100%' border=0>
```

```
<tr bgcolor='#CCCCCC'>
```

```
<td>Employee Id.</td>
<td>Name</td>
<td>Designation</td>
<td>Department</td>
<td>DOJ</td>
<td>Salary</td>
<td>Edit / Delete</td>
</tr>

<?php
while($res = mysqli_fetch_array($result)) {echo
"<tr>";
echo "<td>".$res['empid']."</td>";
echo "<td>".$res['ename']."</td>";
echo "<td>".$res['desig']."</td>";
echo "<td>".$res['dept']."</td>";
echo "<td>".$res['doj']."</td>";
echo "<td>".$res['salary']."</td>";
echo "<td><a href='edit.php?empid=$res[empid]'>Edit</a>";
echo " | <a href='delete.php?empid=$res[empid]'>Delete</a></td>";echo
"</tr>";
}
?>

</table>

</body>

</html>
```

add.html

```
<html>
```

```
<head>
```

```
<title>Add Employee Details</title>
```

```
</head>
```

```
<body>
```

```
<h1 align="center">Add Employee Details</h1>
```

```
<hr />
```

```
<a href="index.php">Home</a>
```

```
<br /><br />
```

```
<form action="add.php" method="post" name="form1">
```

```
<table width="25%" border="0">
```

```
<tr>
```

```
<td>Employee Id. : </td>
```

```
<td><input type="text" name="empid"></td>
```

```
</tr>
```

```
<tr>
```

```
<td>Name : </td>
```

```
<td><input type="text" name="ename"></td>
```

```
</tr>
```

```
<tr>
```

```
<td>Designation : </td>
```

```
<td><input type="text" name="desig"></td>
```

```
</tr>
```

```
<tr>
```

```
<td>Department</td>
```

```
<td><input type="text" name="dept"></td>
```



```
</tr>

<tr>
<td>DOJ</td>
<td><input type="text" name="doj"></td>

</tr>

<tr>
<td>Salary</td>
<td><input type="text" name="salary"></td>
</tr>

<tr>
<td colspan="2" align="center"><input type="submit"
name="Submit" value="Add"></td>
</tr>
</table>
</form>
</body>
</html>
add.php
<html>
<head>
<title>Add Employee Details</title>
</head>
<body>
<?php
//including the database connection file
include_once("config.php");
```

```

$empid = $_POST['empid'];
$name = $_POST['ename'];
$desig = $_POST['desig'];
$dept = $_POST['dept'];
$doj = $_POST['doj'];
$salary = $_POST['salary'];
if(isset($_POST['Submit'])) {
//insert data to database
$result = mysqli_query($mysqli, "INSERT INTO empdetails values ($empid,
'$name','$desig','$dept','$doj','$salary)");
//display success message
echo "<h1 align='center'>Add Employee Details</h1>";echo
"<hr />";
echo "<font color='green'>Data added successfully.";echo
"<br/><a href='index.php'>View Result</a>";
}
?>
</body>
</html>
edit.php
<?php
// including the database connection file
include_once("config.php");
if(isset($_POST['update']))
{
$empid = $_POST['empid'];
$name = $_POST['ename'];

```

```

$desig = $_POST['desig'];
$dept = $_POST['dept'];
$doj = $_POST['doj'];
$salary = $_POST['salary'];
//updating the table
$result = mysqli_query($mysqli, "UPDATE empdetails SET ename='$ename',
desig='$desig',dept='$dept',doj='$doj',salary=$salary WHERE empid=$empid");
//redirectig to the display page. In our case, it is index.phpheader("Location:
index.php");
}
?>
<?php
echo "<h1 align='center'>Edit Employee Details</h1>";echo "<hr
/>";
//getting id from url
$empid = $_GET['empid'];
//selecting data associated with this particular eid
$result = mysqli_query($mysqli, "SELECT * FROM empdetails WHERE
empid=$empid");
while($res = mysqli_fetch_array($result))
{
$empid = $res['empid'];
$ename = $res['ename'];
$desig = $res['desig'];
$dept = $res['dept'];
$doj = $res['doj'];

```

```
$salary = $res['salary'];
}
?>

<html>
<head>
<title>Edit Employee Details</title>
</head>
<body>
<a href="index.php">Home</a>
<br/><br/>
<form name="empform" method="post" action="edit.php">
<table border="0">
<tr>
<td>Name : </td>
<td><input type="text" name="ename" value="<?php echo $ename;?>"></td>
</tr>
<tr>
<td>
<tr>
<td>Designation : </td>
<td><input type="text" name="desig" value="<?php echo $desig;?>"></td>
</tr>
<tr>
<td>Department : </td>
<td><input type="text" name="dept" value="<?php echo $dept;?>"></td>
</tr>

<td>DOJ : </td>
```

```

<td><input type="text" name="doj" value="<?php echo $doj;?>"></td>
</tr>
<tr>
<td>Salary</td>
<td><input type="text" name="salary" value="<?php echo $salary;?>"></td>
</tr>
<tr>
<td><input type="hidden" name="empid" value="<?php echo
$_GET['empid'];?>"></td>
<td><input type="submit" name="update" value="Update"></td>
</tr>
</table>
</form>
</body>
</html>

```

delete.php

```
<?php
```

```
//including the database connection file
```

```
include("config.php");
```

```
//getting id of the data from url
```

```
$empid = $_GET['empid'];
```

```
//deleting the row from table
```

```
$result = mysqli_query($mysqli, "DELETE FROM empdetails WHERE
empid=$empid");
```

```
//redirecting to the display page (index.php in our case)
```

```
header("Location:index.php");
```

```
?>
```

Output:

Add Employee Details

[Home](#)

Employee Id. :

Name :

Designation :

Department :

DOJ :

Salary :

Add Employee Details

[Home](#)

Employee Id. :

Name :

Designation :

Department :

DOJ :

Salary :



Add Employee Details

Data added successfully.

[View Result](#)

Result:

Hence, PHP program for Employee Details, which includes EmpID, Name, Designation, Salary, DOJ, etc., to connect with the database and execute queries to retrieve and update data is executed successfully.

EXPT NO: Servlet - Bank Application

DATE:

Aim:

Program to develop a Banking application accessing a database using Servlet.

Procedure:

Relations using MYSQL for a banking application given below enforcing primary key and

foreign key constraints:

CUSTOMER (CID, CNAME)

ACCOUNT (ANO, ATYPE, BALANCE, CID)

An account can be a savings account or a current account. Check ATYPE in 'S' or 'C'.

A customer can have both types of accounts.

TRANSACTION (TID, ANO, TTYPE, TDATE, TAMOUNT)

TTYPE can be 'D' or 'W'

D- Deposit; W – Withdrawal

1. Open MySQL.

2. Create a database.

```
mysql> create database banking;
```

Query OK, 1 row affected (0.05 sec)

3. Connect to the database.

```
mysql> use banking;
```

Database changed

4. Create the following tables:

```
mysql> create table customer (cid integer, cname varchar(20),
```

```
-> primary key (cid));
```

index.html:

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Banking Application</title>
</head>
<body>
<h1 align="center">Banking Application</h1>
<hr />
<a href="Customer.html">Customer Details</a>
<br />
<br />
<a href="Account.html">Account Details</a>
</body>
</html>
```

Customer.html:

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Customer Details</title>
</head>
<body>
<h1 align="center">Customer Details</h1>
<hr />
<form action="AddCustomer" method="post">
```



```

<table>
<tr>
</tr>
<tr>
</tr>
<tr>
</tr>
<tr>
</tr>
</table>
<td>Customer Id. :</td>
<td><input type="text" name="cid"></td>
<td>Customer Name :</td>
<td><input type="text" name="cname"></td>
<td colspan="2" align="center"><input type="submit"
value="Add Customer"></td>
<br /> <a href="ViewCustomers">View All Customers</a>
</form>
</body>
</html>

```

AddCustomer.java:

```

import java.io.IOException; import
java.io.PrintWriter; import
java.sql.Connection; import
java.sql.DriverManager;
import java.sql.PreparedStatement;
import javax.servlet.ServletException; import
javax.servlet.annotation.WebServlet; import
javax.servlet.http.HttpServlet; import

```

```

javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
/**
 * Servlet implementation class AddCustomer
 */
@WebServlet("/AddCustomer")
public class AddCustomer extends HttpServlet { private static
final long serialVersionUID = 1L;Connection conn = null;
PreparedStatement ps = null;
/**
 * @see HttpServlet#doPost(HttpServletRequest request,
HttpServletResponse
 * response)
 */
protected void doPost(HttpServletRequest request,
HttpServletResponse response)
throws ServletException, IOException {
// TODO Auto-generated method stub
response.setContentType("text/html");
PrintWriter out = response.getWriter();
out.println("<html>");
out.println("<head><title>Add Customer Details</title></head>");
out.println("<body>");
out.println("<h1 align='center'>Add Customer Details</h1>");
out.println("<hr />");
try {
Class.forName("com.mysql.cj.jdbc.Driver");
String URL = "jdbc:mysql://localhost:3306/banking";

```

```
conn = DriverManager.getConnection(URL, "root", "admin");
ps = conn.prepareStatement("insert customer values (?, ?)"); ps.setInt(1,
Integer.parseInt(request.getParameter("cid"))); ps.setString(2,
request.getParameter("cname"));
int res = ps.executeUpdate();
if (res != 0)
out.println("Customer Details Inserted
Successfully...");
```

```
else
out.println("Customer Details Insertion Failure...");
ps.close();
conn.close();
} catch (Exception e) {
out.println(e);
}
out.println("<br />");
out.println("<a href='Customer.html'>Back</a>");
out.println("</body></html>");
}
}
```

ViewCustomers.java:

```
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 javax.servlet.ServletException; import
javax.servlet.annotation.WebServlet; import
javax.servlet.http.HttpServlet; import
javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
/**
 * Servlet implementation class ViewCustomers
 */
@WebServlet("/ViewCustomers")
public class ViewCustomers extends HttpServlet { private static
final long serialVersionUID = 1L;Connection conn = null;
PreparedStatement ps = null;
ResultSet rs = null;
/**
 * @see HttpServlet#doPost(HttpServletRequest request,
HttpServletResponse
 * response)
 */
protected void doGet(HttpServletRequest request,
HttpServletResponse response)
throws ServletException, IOException {
// TODO Auto-generated method stub
response.setContentType("text/html"); PrintWriter
out = response.getWriter(); out.println("<html>");
out.println("<head><title>View All Customer
Details</title></head>"); out.println("<body>");
out.println("<h1 align='center'>View All Customer Details</h1>");

```

```
out.println("<hr />");

try {
    Class.forName("com.mysql.cj.jdbc.Driver");
    String URL = "jdbc:mysql://localhost:3306/banking";
    conn = DriverManager.getConnection(URL, "root", "admin"); ps =
    conn.prepareStatement("select * from customer order bycid");
    rs = ps.executeQuery(); out.println("<table
border='1'>"); out.println("<tr>");
    out.println("<td>Customer Id.</td>");
    out.println("<td>Customer Name</td>");
    out.println("<td>Edit</td>");
    out.println("<td>Delete</td>");
    out.println("</tr>");
    while (rs.next()) {
        out.println("<tr>");
        out.println("<td>" + rs.getInt("cid") + "</td>"); out.println("<td>"
+ rs.getString("cname") + "</td>");out.println("<td><a
href='EditCustomer?cid=" + rs.getInt("cid") + "'>Edit</a></td>");
        out.println("<td><a href='DeleteCustomer?cid=" + rs.getInt("cid")
+ "'>Delete</a></td>"); out.println("</tr>");
    }
    out.println("</table>");
    ps.close();
    conn.close();
} catch (Exception e) {
    out.println(e);
}
```

```

}
out.println("<br />");
out.println("<a href='Customer.html'>Back</a>");
out.println("</body></html>");
}
}

```

EditCsutomer.java:

```

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 javax.servlet.ServletException; import
javax.servlet.annotation.WebServlet; import
javax.servlet.http.HttpServlet; import
javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
/**
 * Servlet implementation class EditCustomer
 */
@WebServlet("/EditCustomer")
public class EditCustomer extends HttpServlet { private static
final long serialVersionUID = 1L;Connection conn = null;

PreparedStatement ps = null;
ResultSet rs = null;

```

```

/**
 * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse
 * response)
 */

protected void doGet(HttpServletRequest request,
HttpServletResponse response)
throws ServletException, IOException {
// TODO Auto-generated method stub
response.setContentType("text/html");
PrintWriter out = response.getWriter();
out.println("<html>");
out.println("<head><title>Edit Customer Details</title></head>");
out.println("<body>");
out.println("<h1 align='center'>Edit All Customer Details</h1>");
out.println("<hr />");
try {
Class.forName("com.mysql.cj.jdbc.Driver");
String URL = "jdbc:mysql://localhost:3306/banking";
conn = DriverManager.getConnection(URL, "root", "admin");ps =
conn.prepareStatement("select * from customer where cid = ?");
ps.setInt(1,Integer.parseInt(request.getParameter(("cid"))));rs =
ps.executeQuery();
rs.next();
out.println("<form action='UpdateCustomer' method='post'>");
out.println("<table>");
out.println("<tr>"); out.println("<td>Customer Id.
:</td>");
out.println("<td><input type='text' name='cid' value='" +rs.getInt("cid")

```

```

+ " readonly"></td>"); out.println("</tr>");
out.println("<tr>");
out.println("<td>Customer Name :</td>"); out.println("<td><input
type='text' name='cname' value='" +rs.getString("cname") + "'></td>");
out.println("</tr>");
out.println("<tr>");
out.println("<td colspan='2' align='center'><input type='submit'
value='Update Customer'></td>"); out.println("</tr>");
out.println("</table>");
out.println("</form>");
ps.close();
conn.close();
} catch (Exception e) {
out.println(e);
}
out.println("<br />");
out.println("<a href='ViewCustomers'>Back</a>");
out.println("</body></html>");
}
}

```

UpdateCustomer.java:

```

import java.io.IOException; import

java.io.PrintWriter; import
java.sql.Connection; import
java.sql.DriverManager;
import java.sql.PreparedStatement;

```



```

import javax.servlet.ServletException; import
javax.servlet.annotation.WebServlet; import
javax.servlet.http.HttpServlet; import
javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
/**
 * Servlet implementation class UpdateCustomer
 */
@WebServlet("/UpdateCustomer")
public class UpdateCustomer extends HttpServlet { private static
final long serialVersionUID = 1L;Connection conn = null;
PreparedStatement ps = null;
/**
 * @see HttpServlet#doPost(HttpServletRequest request,
HttpServletResponse response)
 */
protected void doPost(HttpServletRequest request,
HttpServletResponse response)
throws ServletException, IOException {

// TODO Auto-generated method stub
response.setContentType("text/html");
PrintWriter out = response.getWriter();
out.println("<html>");
out.println("<head><title>Update Customer Details</title></head>");
out.println("<body>");
out.println("<h1 align='center'>Update Customer Details</h1>");
out.println("<hr />");

```

```

try {
    Class.forName("com.mysql.cj.jdbc.Driver");
    String URL = "jdbc:mysql://localhost:3306/banking";
    conn = DriverManager.getConnection(URL, "root", "admin"); ps =
    conn.prepareStatement("update customer set cname = ?where cid = ?");
    ps.setString(1, request.getParameter("cname")); ps.setInt(2,
    Integer.parseInt(request.getParameter("cid")));int res =
    ps.executeUpdate();
    if (res != 0)
        out.println("Customer Details Updated
        Successfully...");
    else
        out.println("Customer Details Updation Failure...");
    ps.close();
    conn.close();
} catch (Exception e) {
    out.println(e);
}
out.println("<br />");
out.println("<a href='ViewCustomers'>Back</a>");
out.println("</body></html>");

}

}

```

DeleteCustomer.java:

```

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

```

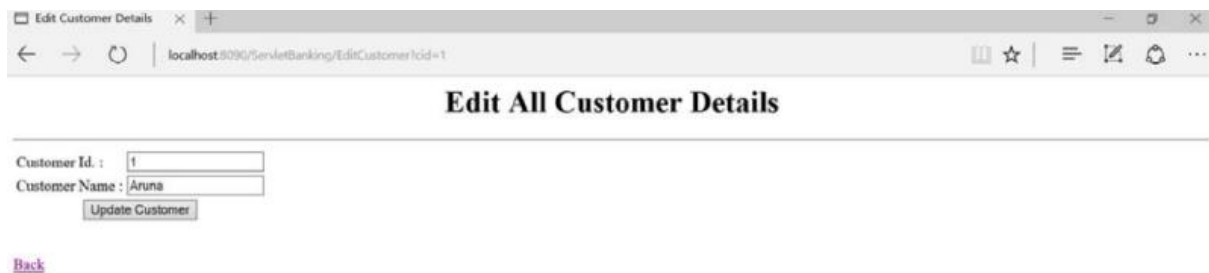
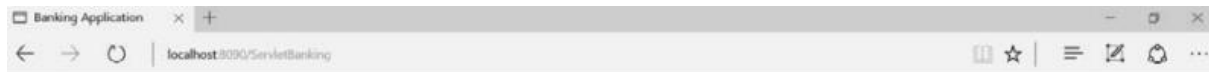
```
java.sql.Connection; import
java.sql.DriverManager;
import java.sql.PreparedStatement;
import javax.servlet.ServletException; import
javax.servlet.annotation.WebServlet; import
javax.servlet.http.HttpServlet; import
javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
/**
 * Servlet implementation class DeleteCustomer
 */
@WebServlet("/DeleteCustomer")
public class DeleteCustomer extends HttpServlet { private static
final long serialVersionUID = 1L;Connection conn = null;
PreparedStatement ps = null;
/**
 * @see HttpServlet#doGet(HttpServletRequest request,
HttpServletResponse response)
 */
protected void doGet(HttpServletRequest request,
HttpServletResponse response)
throws ServletException, IOException {

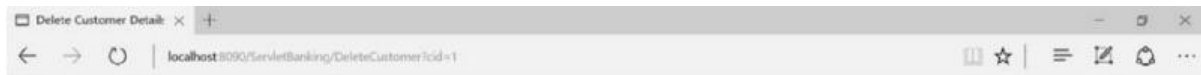
// TODO Auto-generated method stub
response.setContentType("text/html");
PrintWriter out = response.getWriter();
out.println("<html>");
out.println("<head><title>Delete Customer Details</title></head>");
```

```
out.println("<body>");
out.println("<h1 align='center'>Delete Customer Details</h1>");
out.println("<hr />");
try {
    Class.forName("com.mysql.cj.jdbc.Driver");
    String URL = "jdbc:mysql://localhost:3306/banking";
    conn = DriverManager.getConnection(URL, "root", "admin");
    ps = conn.prepareStatement("delete from customer where cid =
?");
    ps.setInt(1, Integer.parseInt(request.getParameter("cid")));
    int res = ps.executeUpdate();
    if (res != 0)
        out.println("Customer Details Deleted uccessfully...");
    else
        out.println("Customer Details Deletion Failure...");
    ps.close();
    conn.close();
} catch (Exception e) {
    out.println(e);
}
out.println("<br />");

out.println("<a href='ViewCustomers'>Back</a>");
out.println("</body></html>");
}
}
```

Output:

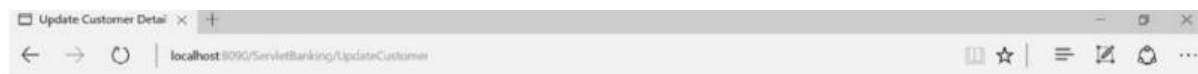




Delete Customer Details

Customer Details Deleted successfully...

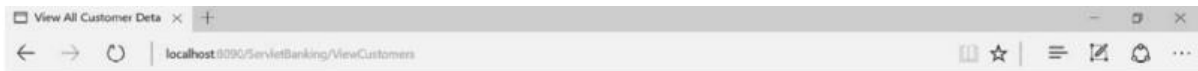
[Back](#)



Update Customer Details

Customer Details Updated Successfully...

[Back](#)



View All Customer Details

Customer Id	Customer Name	Edit	Delete
-------------	---------------	------	--------

[Back](#)

Result:

Hence developed a Banking application accessing a database using Servlet is implemented successfully.

EXPT NO: BOOTSTRAP – WEB PAGE

DATE:

Aim:

Program to develop an attractive web pages using Bootstrap.

Procedure:

1. File Setup:

- Create `index.html`, `styles.css`, and `scripts.js` files.
- Ensure they are in the same directory for easy access.

2. Bootstrap Integration:

- Link Bootstrap CSS in the HTML file using the CDN (Content Delivery Network)

```
<link  
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"  
rel="stylesheet">
```

3. HTML Structure:

- Set up the basic structure of `index.html`.
- Organize sections such as "About Me," "Portfolio," and "Contact."

4. Content Integration:

- Add relevant content to each section.
- Include text, images, and links to showcase your work and skills.

5. Customization and Styling:

- Customize the appearance using custom CSS in `styles.css`.
- Adjust Bootstrap classes and add additional styles as needed for a personalized look.

PROGRAM:

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>My Portfolio</title>

  <!-- Bootstrap CSS -->

  <link
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
rel="stylesheet">

  <!-- Font Awesome -->

  <link href="https://cdn.jsdelivr.net/npm/font-awesome@5.15.3/css/all.min.css" rel="stylesheet">

  <!-- Custom CSS -->

  <link href="styles.css" rel="stylesheet">

</head>

<body>

  <!-- Navigation -->

  <nav class="navbar navbar-expand-lg navbar-dark bg-dark">

    <div class="container">

      <a class="navbar-brand" href="#">My Portfolio</a>

      <button class="navbar-toggler" type="button" data-toggle="collapse" data-
target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" aria-
label="Toggle navigation">

        <span class="navbar-toggler-icon"></span>

      </button>

      <div class="collapse navbar-collapse" id="navbarNav">

        <ul class="navbar-nav ml-auto">
```



```
<li class="nav-item">
  <a class="nav-link" href="#about">About</a>
</li>
<li class="nav-item">
  <a class="nav-link" href="#portfolio">Portfolio</a>
</li>
<li class="nav-item">
  <a class="nav-link" href="#contact">Contact</a>
</li>
</ul>
</nav>
<!-- About Section -->
<section id="about" class="py-5">
  <div class="container">
    <div class="row">
      <div class="col-lg-6">
        <h2>About Me</h2>
        <p>Hi there! I'm Naren, currently a student at Rajalakshmi Engineering College, pursuing Computer Science and Design. I'm passionate about exploring the intersection of technology and design to create innovative solutions. My journey in the field of computer science has equipped me with a strong foundation in programming, problem-solving, and software development. Additionally, my interest in design allows me to approach challenges with a creative mindset, striving to craft user-centric experiences.</p>
      </div>
      <div class="col-lg-6">
        
      </div>
    </div>
  </div>
```

```
</div>
</section>
<!-- Portfolio Section -->
<!-- Portfolio Section -->
<section id="portfolio" class="bg-light py-5">
  <div class="container">
    <h2>Portfolio</h2>
    <div class="row">
      <div class="col-md-4">
        <div class="card">
          
          <div class="card-body">
            <h5 class="card-title">E-commerce Website</h5>
            <p class="card-text">Developed a fully functional e-commerce website
using HTML, CSS, and JavaScript, integrated with payment gateway and user
authentication.</p>
            <a href="#" class="btn btn-primary">View Project</a>
          </div>
        </div>
      </div>
      <div class="col-md-4">
        <div class="card">
          
          <div class="card-body">
            <h5 class="card-title">Portfolio Website</h5>
```

```
<p class="card-text">Designed and built a responsive portfolio website to showcase personal projects, skills, and experiences using Bootstrap and custom CSS.</p>
```

```
<a href="#" class="btn btn-primary">View Project</a>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
<div class="col-md-4">
```

```
<div class="card">
```

```

```

```
<div class="card-body">
```

```
<h5 class="card-title">Blog Website</h5>
```

```
<p class="card-text">Created a dynamic blog website using WordPress, customized themes, and plugins to enhance functionality and user experience.</p>
```

```
<a href="#" class="btn btn-primary">View Project</a>
```

```
</div>
```

```
</div>
```

```
</section>
```

```
<!-- Contact Section -->
```

```
<section id="contact" class="py-5">
```

```
<div class="container">
```

```
<h2>Contact Me</h2>
```

```
<div class="row">
```

```
<div class="col-md-6">
```

```
<form>
```

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

```
<label for="name">Name</label>
```

```

        <input type="text" class="form-control" id="name">
    </div>
    <div class="form-group">
        <label for="email">Email address</label>
        <input type="email" class="form-control" id="email">
    </div>
    <div class="form-group">
        <label for="message">Message</label>
        <textarea class="form-control" id="message" rows="3"></textarea>
    </div>
    <button type="submit" class="btn btn-primary">Submit</button>
</form>
</div>
<div class="col-md-6">
    <div class="card bg-primary text-white">
        <div class="card-body">
            <h5 class="card-title">Get In Touch</h5>
            <p class="card-text">Feel free to contact me if you have any questions
or inquiries!</p>
        </div>
    </div>
</div>
</div>
</div>
</section>

<!-- Bootstrap JS and dependencies -->
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>

```

```

<script
src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.5.4/dist/umd/popper.min.js
"></script>

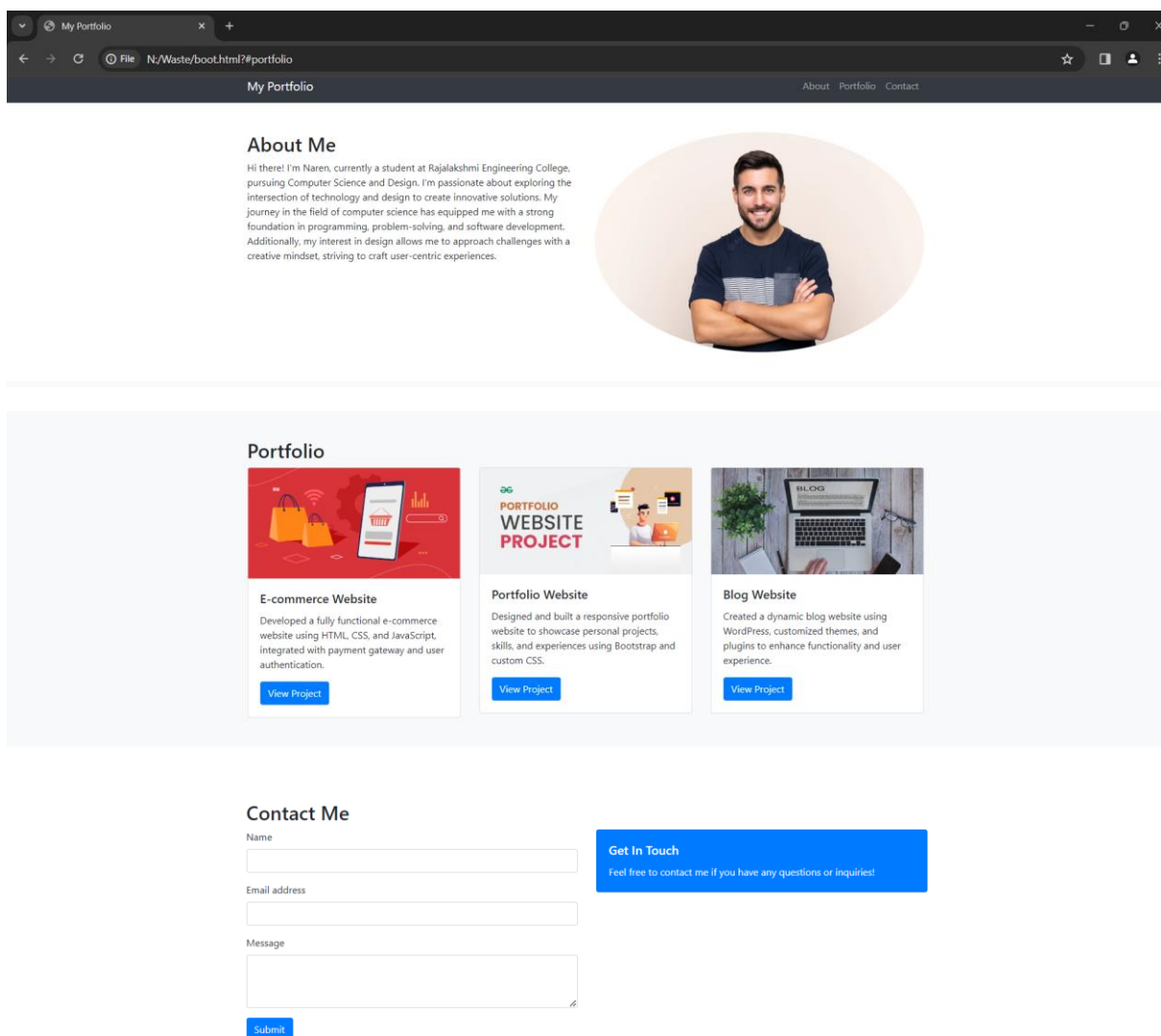
<script
src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></s
cript>

</body>

</html>

```

OUTPUT:



RESULT:

Hence developed an attractive web pages using Bootstrap.

EXPT NO: DESIGN A WEB PAGE WITH - NAVIGATION MENU

DATE:

AIM:

Program to design a web page with navigation menus using Angular JS.

PROCEDURE:

1. Using Angular's directives to set and read the active variable.
2. When it changes, it causes the HTML that uses it to be updated automatically.
3. In Angular's terminology, this variable is called a model. It is available to all directives in the current scope, and can be accessed in your controllers (more on that in the nextexample).
4. JavaScript templates are with the `{{var}}` syntax, the framework sees such a string, it replaces it with the contents of the variable.
5. This operation is repeated every time var is changed.

PROGRAM:

Index.html:

```
<!DOCTYPE html>

<html>

  <head>

    <link rel="stylesheet" href="style.css">

    <script src="https://code.angularjs.org/1.2.13/angular.js"></script>

    <script src="//cdnjs.cloudflare.com/ajax/libs/angular-material-icons/0.7.1/
      angular-material-icons.min.js"></script>

    <script src="app.js"></script>
```

```
</head>
```

```
<body>
```

```
<!-- Adding the ng-app declaration to initialize AngularJS -->
```

```
<div id="main" ng-app="navApp">
```

```
  <nav class="{ { active} }" ng-click="$event.preventDefault()">
```

```
    <h2>Shopping Site</h2>
```

```
    <a href="#" class="home" ng-click="active='home'">
```

```
      <ng-md-icon icon="home" style="fill:white"></ng-md-icon>
```

```
    </a>
```

```
    <a href="#" class="electronics" ng-click="active='electronics'">
```

```
      Electronics</a>
```

```
    <a href="#" class="appliances" ng-click="active='appliances'">
```

```
      Appliances</a>
```

```
    <a href="#" class="clothing" ng-click="active='clothing'">
```

```
      Clothing</a>
```

```
  </nav>
```

```
  <p ng-hide="active">Please click a menu item</p>
```

```
  <p ng-show="active">You chose <b>{ { active} }</b></p>
```

```
</div>
```

```
</body>
```

```
</html>
```

STYLES.CSS:

```
*{  
  
    margin:0;  
  
    padding:0;  
  
}  
  
body{  
  
    font:15px/1.3 'Open Sans', sans-serif;  
  
    color: #5e5b64;  
  
    text-align:center;  
  
}  
  
a, a:visited {  
  
    outline:none;  
  
    color:#389dc1;  
  
}  
  
a:hover{  
  
    text-decoration:none;  
  
}  
  
a img{  
  
    display:inline-block;  
  
}  
  
section, footer, header, aside, nav{  
  
    display: block;}
```



```
nav{  
    display:inline-block;  
    margin:60px auto 45px;  
    background-color:#5597b4;  
    box-shadow:0 1px 1px #ccc;  
    border-radius:2px;  
}  
nav h2{  
    color:#fff !important;  
}  
nav a{  
    display:inline-block;  
    padding: 18px 30px;  
    color:#fff !important;  
    font-weight:bold;  
    font-size:16px;  
    text-decoration:none !important;  
    line-height:1;  
    text-transform: uppercase;  
    background-color:transparent;
```

```
-webkit-transition:background-color 0.25s;

-moz-transition:background-color 0.25s;

transition:background-color 0.25s;

}

nav a:first-child{

    border-radius:2px 0 0 2px;

}

nav a:last-child{

    border-radius:0 2px 2px 0;

}

nav.home .home,

nav.electronics .electronics,

nav.appliances .appliances,

nav.clothing .clothing{

    color:yellow !important;

}

p{

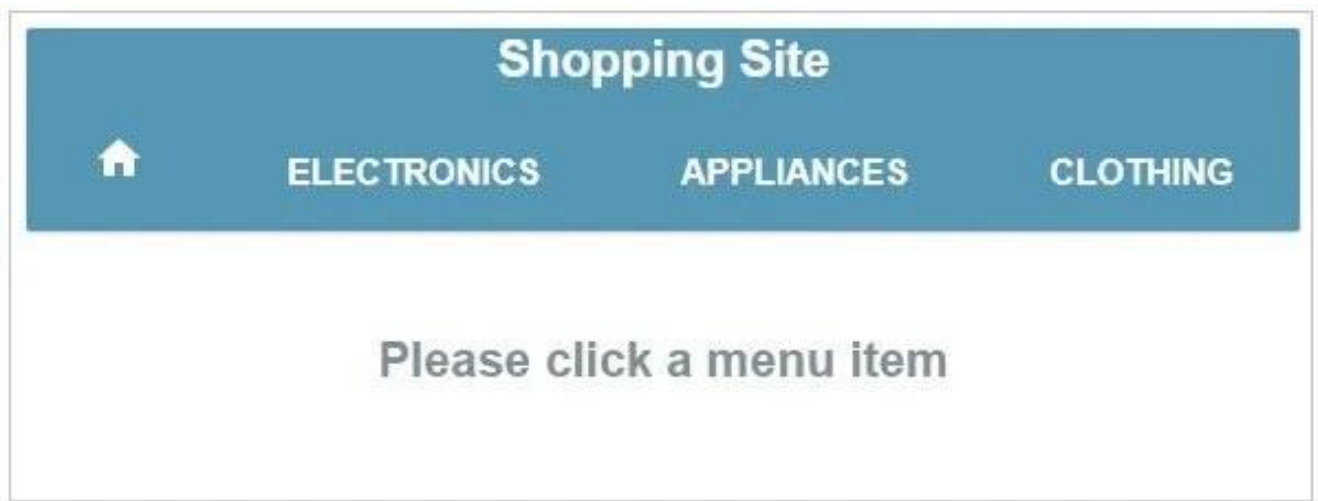
    font-size:22px;

    font-weight:bold;

    color:#7d9098;

}
```

OUTPUT:



RESULT:

Hence designed a web page with navigation menus using Angular JS.

DESIGN A WEB PAGE WITH – INLINE EDITOR

AIM:

Program to design a web page with inline editor using Angular JS.

PROCEDURE:

1. Clicking a paragraph will show a tooltip with a text field.
2. Use a controller that will initialize the models and declare two methods for toggling the visibility of the tooltip.
3. Controllers are regular JavaScript functions which are executed automatically by Angular, and which are associated with your page using the ng-controller directive.
4. When the controller function is executed, it gets the special \$scope object as a parameter.
5. Adding properties or functions to it makes them available to the view.
6. Using the ng-model binding on the text field tells Angular to update that variable when the value of the field changes (this in turn re-renders the paragraph with the value).

PROGRAM:

```
<!DOCTYPE html>
<html lang="en" ng-app="inlineEditorApp">
<head>
  <meta charset="UTF-8">
  <title>Bootstrap & AngularJS Inline Editor</title>
  <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
>
  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/5.15.3/css/all.min.css">
  <style>
    .center {
```

```

        display: flex;
        justify-content: center;
        align-items: center;
        height: 100vh;
    }
    .title-container {
        display: flex;
        align-items: center;
    }
    .title {
        margin: 0;
    }
</style>
</head>
<body>
    <div ng-controller="InlineEditorController as ctrl" class="container center">
        <div class="title-container">
            <h1 class="title" ng-hide="ctrl.editingTitle">{{ ctrl.title }}</h1>
            <div ng-show="ctrl.editingTitle">
                <input type="text" class="form-control" ng-model="ctrl.title" id="title">
                <button class="btn btn-outline-secondary ml-2" type="button" ng-
click="ctrl.saveField('title')"><i class="fas fa-check"></i></button>
            </div>
        </div>
        <button class="btn btn-outline-secondary mt-3" type="button" ng-
click="ctrl.editField('title')"><i class="fas fa-pencil-alt"></i> Edit
Title</button>
    </div>

```

```
<script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></scri
pt>

<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>

<script
src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></s
cript>

<script>

angular.module('inlineEditorApp', [])

.controller('InlineEditorController', function() {

  var ctrl = this;

  ctrl.title = "Click to edit me";

  ctrl.editingTitle = false;

  ctrl.editField = function(field) {

    ctrl.editingTitle = true;

    // Set a timeout to focus the input after it's shown

    setTimeout(function() {

      document.getElementById(field).focus();

    });

  };

  ctrl.saveField = function(field) {

    ctrl.editingTitle = false;

  };

});



</script>

</body>

</html>
```

OUTPUT:

Click to edit me 

WEB ESSENTIALS 


WEB ESSENTIALS 

RESULT:

Hence designed a web page with inline editor using Angular JS.

DESIGN A WEB PAGE WITH – ORDER FORM

AIM:

Program to design a web page with order form using Angular JS.

PROCEDURE:

1. Code an order form with a total price updated in real time, using another one of Angular's useful features - filters.
2. Filters let modify models and can be chained together using the pipe character.
3. Use the currency filter, to turn a number into a properly formatted price, complete with a dollar sign and cents. You can easily make your own filters.
4. The ng-repeat binding (docs) is another useful feature of the framework. It lets loop through an array of items and generate markup for them. It is intelligently updated when an item is changed or deleted.

PROGRAM:

```
<!DOCTYPE html>

<html lang="en" ng-app="orderFormApp">
<head>
  <meta charset="UTF-8">
  <title>Order Form</title>
  <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
>
  <style>
    body, html {
      height: 100%;
    }
    .container {
      display: flex;
      justify-content: center;
```



```
        align-items: center;
        height: 100%;
    }
    order-form {
        max-width: 400px;
        width: 100%;
    }
    form-group {
        margin-bottom: 20px;
    }
    form-label {
        font-weight: bold;
    }
</style>
</head>
<body>
    <div ng-controller="OrderFormController as formCtrl" class="container">
        <form class="order-form">
            <div class="form-group">
                <label for="products" class="form-label">Products:</label>
                <select multiple class="form-control" id="products" ng-
model="formCtrl.selectedProducts" ng-options="product as product.name for
product in formCtrl.products">
            </select>
        </div>
        <div class="form-group">
            <label for="quantity" class="form-label">Quantity:</label>
```

```

        <input type="number" class="form-control" id="quantity" ng-
model="formCtrl.quantity">
    </div>

    <button type="button" class="btn btn-primary" ng-
click="formCtrl.addToCart()">Add to Cart</button>

    <div class="form-group mt-3">
        <label class="form-label">Cart:</label>

        <ul class="list-group">
            <li class="list-group-item" ng-repeat="item in formCtrl.cart">{{
item.product.name }} - Quantity: {{ item.quantity }} - Total: ${{ item.total
}}</li>
        </ul>

        <p class="mt-3">Grand Total: ${{ formCtrl.grandTotal }}</p>
    </div>
</form>
</div>

<script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></scri
pt>

<script>
angular.module('orderFormApp', [])
.controller('OrderFormController', function() {
    var formCtrl = this;
    formCtrl.products = [
        { name: 'Web Essentials', cost: 100 },
        { name: 'Web Hosting', cost: 50 },
        { name: 'Domain Registration', cost: 20 }
    ];

```

```
formCtrl.selectedProducts = [];
formCtrl.quantity = "";
formCtrl.cart = [];
formCtrl.grandTotal = 0;

// Function to add item to cart
formCtrl.addToCart = function() {
  if (formCtrl.selectedProducts.length && formCtrl.quantity) {
    angular.forEach(formCtrl.selectedProducts, function(product) {
      var total = product.cost * formCtrl.quantity;
      formCtrl.cart.push({ product: product, quantity: formCtrl.quantity, total:
total });
      formCtrl.grandTotal += total;
    });
    // Clear input fields after adding to cart
    formCtrl.selectedProducts = [];
    formCtrl.quantity = "";
  } else {
    console.log("Please select product(s) and enter a quantity.");
  }
};

</script>
</body>
</html>
```

OUTPUT:

Products:

Web Essentials

Web Hosting

Domain Registration

Quantity:

Add to Cart

Cart:

Grand Total: \$0

Products:

Web Essentials

Web Hosting

Domain Registration

Quantity:

Add to Cart

Cart:

Web Essentials - Quantity: 2 - Total: \$200

Grand Total: \$200

Products:

Web Essentials

Web Hosting

Domain Registration

Quantity:

Add to Cart

Cart:

Web Essentials - Quantity: 2 - Total: \$200

Web Hosting - Quantity: 1 - Total: \$50

Domain Registration - Quantity: 2 - Total: \$40

Grand Total: \$290

RESULT:

Hence designed a web page with order form using Angular JS.

DESIGN A WEB PAGE WITH – INSTANT SEARCH

AIM:

Program to design a web page with instant search using Angular JS.

PROCEDURE:

1. To filter a list of items by typing into a text field.
2. First have to turn the application into a module.
3. Modules are a way of organizing JavaScript applications into self-contained components that can be combined in new and interesting ways.
4. Angular relies on this technique for code isolation and requires that your application follows it before you can create a filter.
5. There are only two things that you need to do to turn your app into a module:
 1. Use the `angular.module("name", [])` function call in your JS. This will instantiate and return a new module;
 2. Pass the name of the module as the value of the `ng-app` directive.
6. Creating a filter then is as simple as calling the `filter()` method on the module object returned by `angular.module("name", [])`.

PROGRAM:

```
<!DOCTYPE html>

<html lang="en" ng-app="instantSearchApp">
<head>
  <meta charset="UTF-8">
  <title>Instant Search - Engineering Departments</title>
  <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
>
</head>
<body>
  <div ng-controller="SearchController as searchCtrl" class="container mt-5">
    <h1>Instant Search - Engineering Departments</h1>
```

```

<input type="text" class="form-control mt-3" placeholder="Search..." ng-
model="searchCtrl.query">

<ul class="list-group mt-3">

  <li class="list-group-item" ng-repeat="department in searchCtrl.departments
| filter:searchCtrl.query">{{ department }}</li> </ul>

</div>

<script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></scri
pt>

<script>
angular.module('instantSearchApp', [])
.controller('SearchController', function() {
  var searchCtrl = this;
  searchCtrl.departments = [
    'Computer Science and Engineering',
    'Computer Science and Design',
    'Electrical and Electronics Engineering',
    'Mechanical Engineering',
    'Civil Engineering',
    'Electronics and Communication Engineering',
    'Chemical Engineering',
    'Biomedical Engineering',
    'Aerospace Engineering',
    'Environmental Engineering',
    'Materials Science and Engineering'
  ];
});
</script>
</body>
</html>

```

OUTPUT:

Instant Search - Engineering Departments

Search...
Computer Science and Engineering
Computer Science and Design
Electrical and Electronics Engineering
Mechanical Engineering
Civil Engineering
Electronics and Communication Engineering
Chemical Engineering
Biomedical Engineering
Aerospace Engineering
Environmental Engineering
Materials Science and Engineering

Instant Search - Engineering Departments

Computer science and design
Computer Science and Design

Instant Search - Engineering Departments

Bio
Biomedical Engineering

RESULT:

Hence designed a web page with instant search using Angular JS.

DESIGN A WEB PAGE WITH – SWITCHABLE GRID

Aim:

Program to design a web page with Switchable grid using Angular JS.

Procedure:

1. Create the HTML structure for the switchable grid interface. Include buttons for switching between grid and list views and define containers for displaying the grid and list.
2. Set up an AngularJS module and controller to manage the functionality of the switchable grid. Inject the AngularJS library into the HTML file.
3. Initialize data and view: Define a sample list of items and initialize the default view to be displayed (in this case, the grid view).
4. Create a function in the AngularJS controller to switch between grid and list views. This function will change the value of a variable representing the current view.
5. Use AngularJS directives such as ng-show and ng-repeat to bind the data to the grid and list views. Show or hide each view based on the current view variable, and iterate over the list of items to display them in the respective views.

PROGRAM:

```
<!DOCTYPE html>

<html lang="en" ng-app="switchableViewApp">
<head>

  <meta charset="UTF-8">

  <title>Switchable Grid</title>
```



```

    <linkrel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
>

</head>

<body>

    <div ng-controller="SwitchableGridController as gridCtrl" class="container
mt-5">

        <h1>Switchable Grid</h1>

        <div class="btn-group mb-3">

            <button                class="btn                btn-primary"                ng-
click="gridCtrl.switchView('grid')">Grid View</button>

            <button class="btn btn-primary" ng-click="gridCtrl.switchView('list')">List
View</button>

        </div>

        <div ng-show="gridCtrl.currentView === 'grid'">

            <div class="row">

                <div class="col-md-4 mb-3" ng-repeat="item in gridCtrl.items">

                    <div class="card">

                        <div class="card-body">

                            {{ item }}

                        </div>

                    </div>

                </div>

            </div>

        </div>

        <div ng-show="gridCtrl.currentView === 'list'">

            <ul class="list-group">

```

```
<li class="list-group-item" ng-repeat="item in gridCtrl.items">{{ item }}</li>
  </ul>
</div>
</div>
```

```
<script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></scri
pt>
```

```
<script>
```

```
angular.module('switchableViewApp', [])
.controller('SwitchableGridController', function() {
  var gridCtrl = this;
  gridCtrl.items = [
    'Item 1', 'Item 2', 'Item 3', 'Item 4', 'Item 5'
  ];
  gridCtrl.currentView = 'grid';
  gridCtrl.switchView = function(view) {
    gridCtrl.currentView = view;
  };
});
```

```
</script>
```

```
</body>
```

```
</html>
```

OUTPUT:

Switchable Grid

Grid View List View

Item 1	Item 2	Item 3
Item 4	Item 5	

Switchable Grid

Grid View List View

Item 1
Item 2
Item 3
Item 4
Item 5

RESULT:

Hence designed a web page with Switchable grid using Angular JS.

EXPT NO: SINGLE PAGE APPLICATION

DATE:

AIM:

Program to develop an single page application using angular js.

PROCEDURE:

1. Make a single page application and don't want any page refreshes, use Angular's routing capabilities.
2. Include angular-route script after the main angular script. 8. Specify that the module depends on ngRoute module to be able to use it.
3. The next thing is to distinguish common HTML for every page. This HTML will be layout of the website.
4. Then specify the place where HTML of each page will be placed in our layout. There is a ng-view directive for that.
5. ng-view is an Angular directive that will include the template of the current route (for example, /blog or /about) in the main layout file.
6. Configure the routes. Use \$routeProvider service from the ngRoute module.
7. For each route, specify templateUrl and controller.
8. If user will try to go to the route that does not exist, handle this by using otherwise function. In our case, we will redirect user to the "/" route:
9. Build controllers for every route (already specified their names in routeProvider).

PROGRAM:

```
<!DOCTYPE html>
<html ng-app="myApp">
<head>
  <meta charset="UTF-8">
  <title>Single Page Application</title>
  <style>
    body {
```

```
font-family: Arial, sans-serif;
margin: 0;
padding: 0;
background-color: #f4f4f4;
display: flex;
flex-direction: column;
justify-content: center;
align-items: center;
height: 100vh;
}

#navbar {
background-color: #333;
overflow: hidden;
display: flex;
justify-content: center;
align-items: center;
width: 100%;
position: fixed;
top: 0;
}

#navbar a {
display: block;
color: white;
text-align: center;
padding: 14px 16px;
text-decoration: none;
}
```

```
#navbar a:hover {
    background-color: #ddd;
    color: black;
}

#navbar a.active {
    background-color: #4CAF50;
    color: white;
}

.content {
    padding: 20px;
    text-align: center;
    margin-top: 60px; /* Adjusted margin to make space for navbar */
}

h1 {
    margin-top: 0;
}

img {
    max-width: 100%;
    height: auto;
}

</style>

<script
src="https://cdnjs.cloudflare.com/ajax/libs/angular.js/1.4.7/angular.min.js"></sc
ript>

<script src="https://cdnjs.cloudflare.com/ajax/libs/angular.js/1.4.7/angular-
route.min.js"></script>

</head>
```

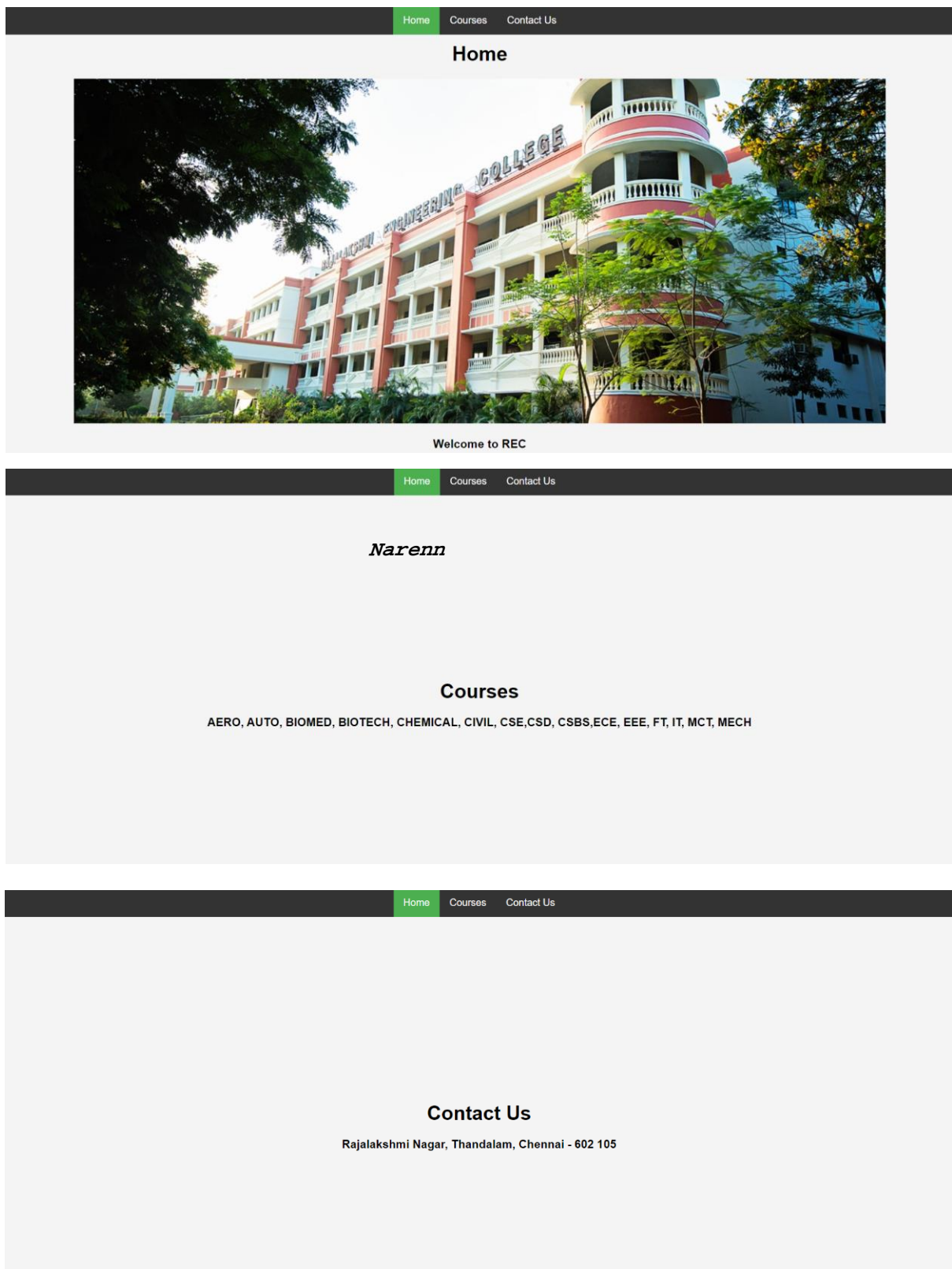
```

<body>
  <div id="navbar">
    <a href="#" class="active">Home</a>
    <a href="#/courses">Courses</a>
    <a href="#/contactus">Contact Us</a>
  </div>
  <div ng-view class="content"></div>
<script type="text/ng-template" id="pages/home.html">
  <h1>Home</h1>
  
  <h3>{{message}}</h3>
</script>
<script type="text/ng-template" id="pages/courses.html">
  <h1>Courses</h1>
  <h3>{{message}}</h3>
</script>
<script type="text/ng-template" id="pages/contactus.html">
  <h1>Contact Us</h1>
  <h3>{{message}}</h3>
</script>
<script>
  var app = angular.module('myApp', ['ngRoute']);
  app.config(function($routeProvider) {
    $routeProvider
      .when('/', {
        templateUrl : 'pages/home.html',
        controller : 'HomeController'
      })
  });

```

```
    })
    .when('/courses', {
        templateUrl : 'pages/courses.html',
        controller : 'CoursesController'
    })
    .when('/contactus', {
        templateUrl : 'pages/contactus.html',
        controller : 'ContactUsController'
    })
    .otherwise({redirectTo: '/'});
});
app.controller('HomeController', function($scope) {
    $scope.message = 'Welcome to REC';
});
app.controller('CoursesController', function($scope) {
    $scope.message = 'AERO, AUTO, BIOMED, BIOTECH, CHEMICAL,
CIVIL, CSE,CSD, CSBS,ECE, EEE, FT, IT, MCT, MECH';
});
app.controller('ContactUsController', function($scope) {
    $scope.message = 'Rajalakshmi Nagar, Thandalam, Chennai - 602 105';
});
</script>
</body>
</html>
```


OUTPUT:



RESULT:

Hence developed a single page application using Angular JS.