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	o:
Certified that is the bonafide r	ecord of work done by the
above student in the	
Laboratory during the year 20	- 20
Submitted for the practical e	Signature of Faculty in-charge xamination held on
Internal Examiner	External Examiner

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Reg. No.	:	Name :		
Year :		Branch:	Sec	:

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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>
<img src="india_map.jpg" usemap="#metroid" ismap="ismap" > <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>

Area: 1,30,058 Sq. Kms.

Capital : Chennai Language

: Tamil

Population: 6,21,10,839 <hr>

India Map

</BODY>

</HTML>

Karnataka.html

<HTML> <HEAD>

<TITLE>About Karnataka</TITLE> </HEAD> <BODY>

<CENTER><H1>Karnataka</H1></CENTER>

<HR>

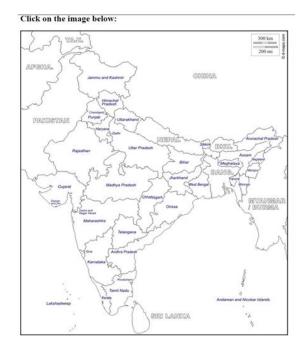
5

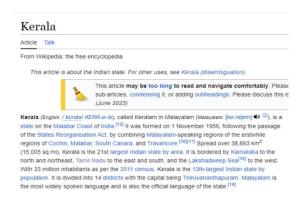
Area: 1,91,791 Sq. Kms

Capital : Bangalore

```
<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>





Tamil Nadu

Article Tall

From Wikipedia, the free encyclopedia

Tamil Nadu (/ teemti 'no du./, Tamit | 'tamit 'na rui| ◀0 [©], aber. TN) is the southernmost state of India. The tenth largest Indian state by area and the soth largest by population, Tamil Nadu is the home of the Tamil people, who speak the Tamil language, one of the longest surviving classical languages and serves as its official language. The capital and largest city is Chennai.

Chasts and Deccan Plateau in the west, the Eastern Ghats in the north, the Eastern Coastal Platins lining the Bay of Bengal in the east, the Gulf of Mannar and the Palk Strait to the south-east, the Laccadive Sea at the southern cape of the peninsula, with the river Kaveri bisecting the state. Politically, Tamil Nadu is bound by the Indian states of Kerala, Karnataka, and Andrra Pradesh, and the union territory of Puducherry and shares an international maritime border with the Northern Province of Sit Lanka at Pamban Island.

Andhra Pradesh

Article Tal

From Wikipedia, the free encyclopedia

"Andhra" redirects here. For other uses, see Andhra (disambiguation).

Andhra Pradesh (English: /, ondre pro'delf, [9] Tolugu: [a ndhre prede f] 40 00 abbr. AP) is a state in the southern coastal region of India. It is the seventh-largest state with an area of 162,970 km² (62,920 sq mi)^[5] and the tenth-most populous state with 49,577,103 inhabitants [4] It has shared borders with Chhattisgarh, Odisha, Karnataka, Tamili Nadu, Telangana and the Bay of Bengal. It has the second-longest coastline in India at about 974 km (605 mi). [9] After existence as Andhra State and unified Andhra Pradesh, the state took its present form on 2 June 2014, when the new state of Telangana was formed through bifurcation. [10] Amaravati is the capital of the state, with the largest city being Visakhapatham. Water sharing disputes and asset division with Telangana are not yet resolved. Telugu, one of the classical languages of India used by the majority of people, is the first official language.

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>
< rel="stylesheet" href="style.css"></title>
```

```
<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>
 <img src="site desc.jpg"
  <nav>
    <a href="departments.html">Departments</a>
      <a href="courses.html">About </a>
      <a href="faculty.html">Faculty Members</a>
      <a href="placement.html">Placement</a>
    </nav>
  <footer>
    %copy; 2024 Rajalakshmi Engineering College
  </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>
<img src="csd.jpg">

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..

```
</body>
```

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>
```

```
body {
                             font-
  <style>
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;
                   line-
color: #555;
height: 1.6;
margin: 20px auto;
max-width: 800px;
       text-align: left;
    }
</style>
</head>
<body>
                          <img src="place.png"
  <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.

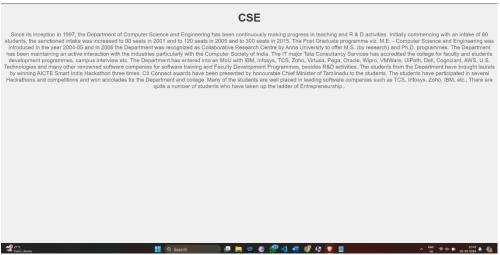
He also co-ordinates the overseas relations of the Institution handling issues like student recruitment and identifying areas of mutual collaboration between Institutions. He has represented the Institution in various education fairs at Kuwait, Sri Lanka, Sultanate of Oman and the GETEX Fair- Asia's 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.

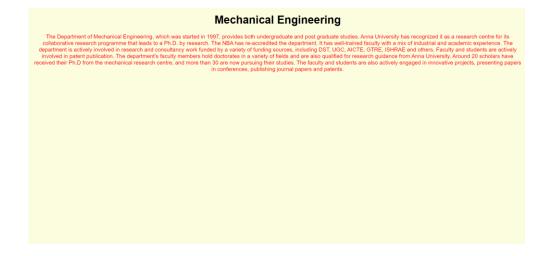
He is ably supported by a team of Professionals with rich Industry and Academia experience and also student and faculty coordinators from each department.

</body>

</html>







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>
       <button type="submit">Register</button>
     </form>
  </div>
  <script src="script.js"></script>
</body>
</html>
Style.css: body {
                   font-family: Arial,
             background-color: #f0f0f0;
sans-serif;
margin: 0;
             padding: 0;
                           display: flex;
justify-content: center;
                         align-items:
         height: 100vh; } .container {
width: 400px;
               padding: 20px;
                         border-radius:
background-color: #fff;
       box-shadow: 0 0 10px rgba(0, 0, 0,
8px;
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="passwo
rd"] {
        width:
100%; padding:
10px;
        border-
radius: 5px;
border: 1px solid
#ccc;
} error-message
               font-size:
  color: red;
        margin-top: 5px; }
12px;
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@] + \.[^\s@]
                   return regex.test(email);
});
```

Registeration Form

First Name:	
Kaviya	
Last Name:	
shree	
Department:	
CSD	
Email Id:	
211701019@rajalakshmi.edu.in	
PassWord:	
☑ I agree to the terms and conditions.	
Register	

Successfully Registered

We'll get back to you shortly

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">

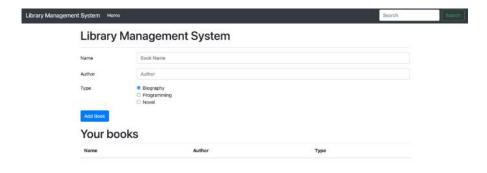
```
<title>Library Management System</title>
 <link rel="stylesheet" href="styles.css">
</head>
<body>
 <h2>Library Management System</h2>
  <form id="bookForm">
    <label for="title">Title:</label>
    <input type="text" id="title" name="title" required><br>
    <label for="author">Author:</label>
    <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>
  >
      Title
      Author
      Year
      Action
```

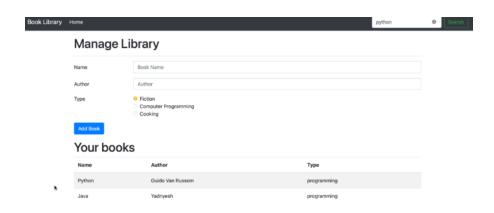
```
<script>
                const bookForm =
document.getElementById('bookForm');
                                             const bookTable =
document.getElementById('bookTable');
    bookForm.addEventListener('submit', function(event) {
event.preventDefault();
       const title = document.getElementById('title').value;
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</pre>
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:
        margin: 20px auto;
800px;
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;
         width: 100%;
} table {
border-collapse: collapse;
                  padding: 8px;
} th, td {
border-bottom: 1px solid #ddd;
  text-align: left; } th {
background-color: #f2f2f2;
} tr:hover { background-
color: #f5f5f5;
```





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/>
Employee Id.
Name
```

```
Designation
Department
 DOJ 
Salary
Edit / Delete
 <?php while($res =
mysqli fetch array($result)) {echo
""; echo
"".$res['empid'].""; echo
"".$res['ename'].""; echo
"".$res['desig'].""; echo
"".$res['dept'].""; echo
"".$res['doj'].""; echo
"".$res['salary']."";
echo "<a href='edit.php?empid=$res[empid]'>Edit</a>";
echo " | <a href='delete.php?empid=$res[empid]'>Delete</a>";echo
"";
}
?>
</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 /><br/>
<form action="add.php" method="post" name="form1">
Employee Id. : 
<input type="text" name="empid">
Name : 
<input type="text" name="ename">
>
Designation : 
<input type="text" name="desig">
Department
<input type="text" name="dept">
```

```
 DOJ 
<input type="text" name="doj"></td
>
Salary
<input type="text" name="salary">
<input type="submit" name="Submit"
value="Add">
</form>
</body>
</html>
add.php <html>
<head>
<title>Add Employee Details</title>
</head>
<body>
<?php
//including the database connection file include_once("config.php");
```

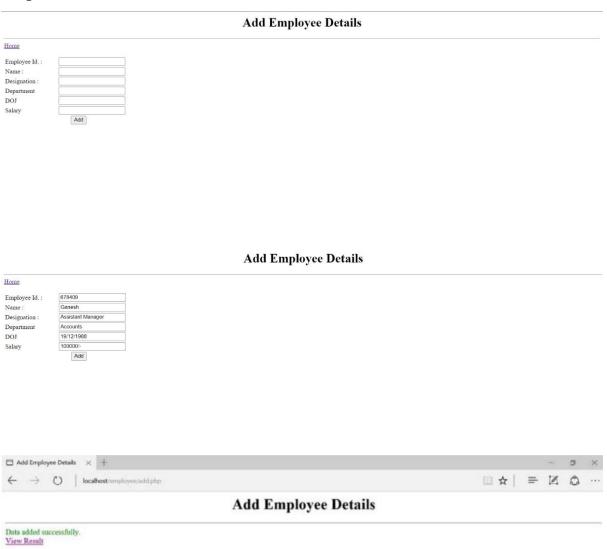
```
$empid = $ POST['empid']; $ename
= $ POST['ename'];
$desig = $ POST['desig'];
$dept = $ POST['dept'];
$doj = $ POST['doj']; $salary
= $ POST['salary'];
if(isset($ POST['Submit'])) {
//insert data to database
$result = mysqli query($mysqli, "INSERT INTO empdetails values ($empid,
'$ename','$desig','$dept','$doj',$salary)");
//display success message echo "<h1 align='center'>Add
Employee Details</hl>
"<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'];
$ename = $ 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">
Name : 
<input type="text" name="ename" value="<?php echo $ename;?>">
Designation : 
<input type="text" name="desig" value="<?php echo $desig;?>">
Department : 
<input type="text" name="dept" value="<?php echo $dept;?>">
```

```
DOJ : 
<input type="text" name="doj" value="<?php echo $doj;?>">
Salary
<input type="text" name="salary" value="<?php echo $salary;?>">
<input type="hidden" name="empid" value=<?php echo
$ GET['empid'];?>>
<input type="submit" name="update" value="Update">
</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:



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 exceuted 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/>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"> 
Customer Id. :
<input type="text" name="cid">
Customer Name :
<input type="text" name="cname"> <td
colspan="2" align="center"><input type="submit"
value="Add Customer">
<br/><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,
HttpServletResponseresponse) 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</hl>"); 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.WebServle
t; import
javax.servlet.http.HttpServlet;
import
javax.servlet.http.HttpServletRequ
est; import
javax.servlet.http.HttpServletResp
onse;
/**
* 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,
HttpServletResponseresponse) 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</hl>"); 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("");
out.println(""); out.println("Customer Id.");
out.println("Customer Name");
out.println("Edit"); out.println("Delete");
out.println(""); while (rs.next()) { out.println("");
out.println("" + rs.getInt("cid") + ""); out.println("" +
rs.getString("cname") + "");out.println("<a
href='EditCustomer?cid=" + rs.getInt("cid") + "'>Edit</a>");
out.println("<a href='DeleteCustomer?cid=" + rs.getInt("cid")
+ "">Delete</a>"); out.println("");
out.println("");
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,
HttpServletResponseresponse) 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</hl>"); out.println("<hr/>"); try {
Class.forName("com.mysql.ci.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(""); out.println("");
out.println("Customer Id.
:");
out.println("<input type='text' name='cid' value="" +rs.getInt("cid")
+ "" readonly>"); out.println(""); out.println("");
out.println("Customer Name :"); out.println("<input
type='text' name='cname' value="" +rs.getString("cname") + "">");
out.println(""); out.println(""); out.println("<td colspan='2'
align='center'><inputtype='submit' value='Update Customer'>");
out.println(""); out.println(""); 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.WebServl
et; import
javax.servlet.http.HttpServlet;
import
javax.servlet.http.HttpServletRequ
est; import
javax.servlet.http.HttpServletResp
onse;
/**
* 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,
HttpServletResponseresponse) throws
ServletException, IOException {
```

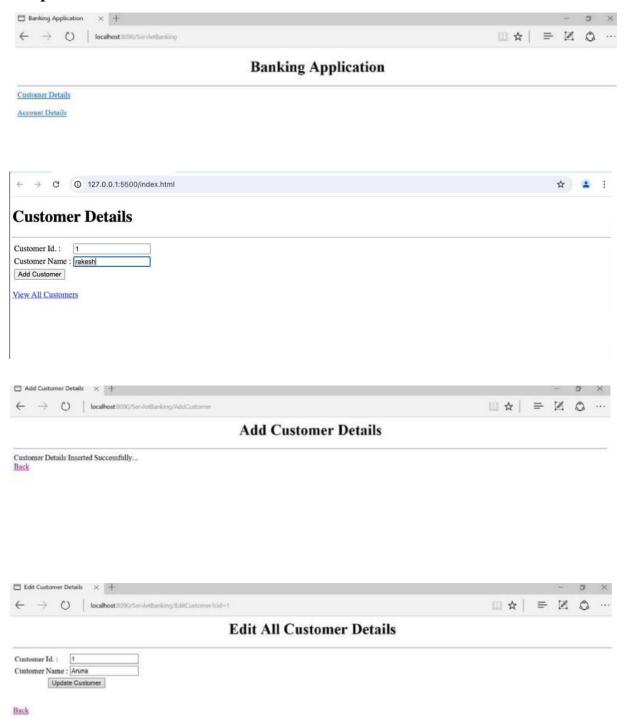
```
// TODO Auto-generated method stub
response.setContentType("text/html"); PrintWriter out =
response.getWriter(); out.println("<html>");
out.println("<head><title>Update Customer Details</title></head>");
out.println("<body>"); out.println("<h1 align='center'>Update
Customer Details</h1>"); out.println("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

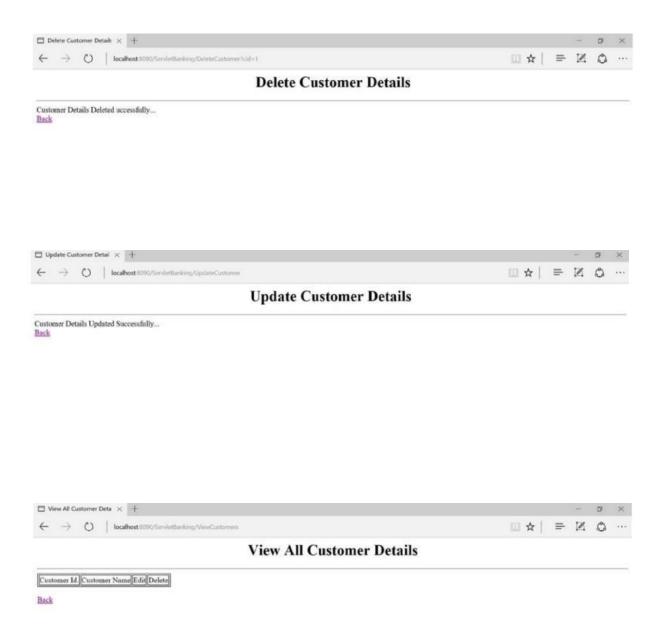
```
DeleteCustomer.java: import
java.io.IOException; import
java.io.PrintWriter; import
java.sql.Connection; import
java.sql.DriverManager; import
java.sql.PreparedStatement; import
javax.servlet.ServletException;
import
javax.servlet.annotation.WebServle
t; import
javax.servlet.http.HttpServlet;
import
javax.servlet.http.HttpServletRequ
est; import
javax.servlet.http.HttpServletResp
onse;
/**
* 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,
```

```
HttpServletResponseresponse)
*/
protected void doGet(HttpServletRequest request,
HttpServletResponseresponse) 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:





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.cssr el="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://cdnjs.cloudflare.com/ajax/libs/fontawesome/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>
```

```
class="navbar-toggler" type="button"
                                                   data-toggle="collapse"
datatarget="#navbarNav" aria-controls="navbarNav"
                                                   aria-expanded="false"
arialabel="Toggle navigation">
    <span class="navbar-toggler-icon"></span>
   </button>
   <div class="collapse navbar-collapse" id="navbarNav">
    ul class="navbar-nav ml-auto">
     class="nav-item">
      <a class="nav-link" href="#about">About</a>
     </1i>
     class="nav-item">
      <a class="nav-link" href="#portfolio">Portfolio</a>
     </1i>
     class="nav-item">
      <a class="nav-link" href="#contact">Contact</a>
     </nav>
<!-- About Section -->
<section id="about" class="py-5">
  <div class="container">
   <div class="row">
    <div class="col-lg-6">
<h2>About Me</h2>
```

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.

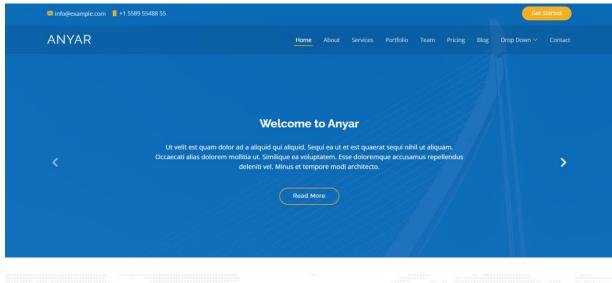
```
</div>
    <div class="col-lg-6">
     <img src="P:\Saved Pictures\Men.webp" alt="Profile Picture"</pre>
class="img-fluid rounded-circle">
    </div>
   </div>
  </div>
 </section>
 <!-- Portfolio Section -->
 <!-- Portfolio Section -->
<section id="portfolio" class="bg-light py-5">
 <div class="container">
  <h2>Portfolio</h2>
  <div class="row">
   <div class="col-md-4">
    <div class="card">
     <img src="P:\Saved Pictures\images.png" alt="Project 1" class="cardimg-</pre>
top">
     <div class="card-body">
       <h5 class="card-title">E-commerce Website</h5>
       Developed a fully functional e-commerce website
using HTML, CSS, and JavaScript, integrated with payment gateway and user
authentication.
```

```
<a href="#" class="btn btn-primary">View Project</a>
     </div>
    </div>
   </div>
   <div class="col-md-4">
    <div class="card">
     <img src="P:\Saved Pictures\port.webp" alt="Project 2" class="card-</pre>
imgtop">
     <div class="card-body">
      <h5 class="card-title">Portfolio Website</h5>
      Designed and built a responsive portfolio website
to showcase personal projects, skills, and experiences using Bootstrap and
custom CSS.
       <a href="#" class="btn btn-primary">View Project</a>
     </div>
    </div>
   </div>
   <div class="col-md-4">
    <div class="card">
     <img src="P:\Saved Pictures\blog.jpg" alt="Project 3" class="card-</pre>
imgtop">
     <div class="card-body">
      <h5 class="card-title">Blog Website</h5>
       Created a dynamic blog website using WordPress,
customized themes, and plugins to enhance functionality and user
experience.
      <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>
        Feel free to contact me if you have any questions
or inquiries!
       </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>
```

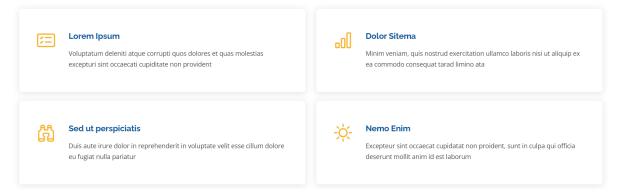
OUTPUT:





SERVICES

Magnam dolores commodi suscipit. Necessitatibus eius consequatur ex aliquid fuga eum quidem. Sit sint consectetur velit. Quisquam quos quisquam cupiditate. Et nemo qui impedit suscipit alias ea. Quia fugiat sit in iste officiis commodi quidem hic quas.



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 next example).
- 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/</pre>

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>
    Please click a menu item
    You chose <b>{{active}}</b>
  </div>
</body>
</html>
```

```
STYLES.CSS:
* {
margin:0;
padding:0;
        font:15px/1.3 'Open Sans',
             color: #5e5b64;
sans-serif;
align:center;
} a, a:visited {
outline:none;
color:#389dc1; }
a:hover{
         text-
decoration:none;
} a img{
display:inline-block;
} section, footer, header, aside,
       display: block;}
nav{
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;
           display:inline-block;
} nav a{
padding: 18px 30px;
                       color:#fff
              font-weight:bold;
!important;
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
        transition:background-
0.25s;
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:

Shopping Site



ELECTRONICS

APPLIANCES

CLOTHING

Please click a menu item



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).

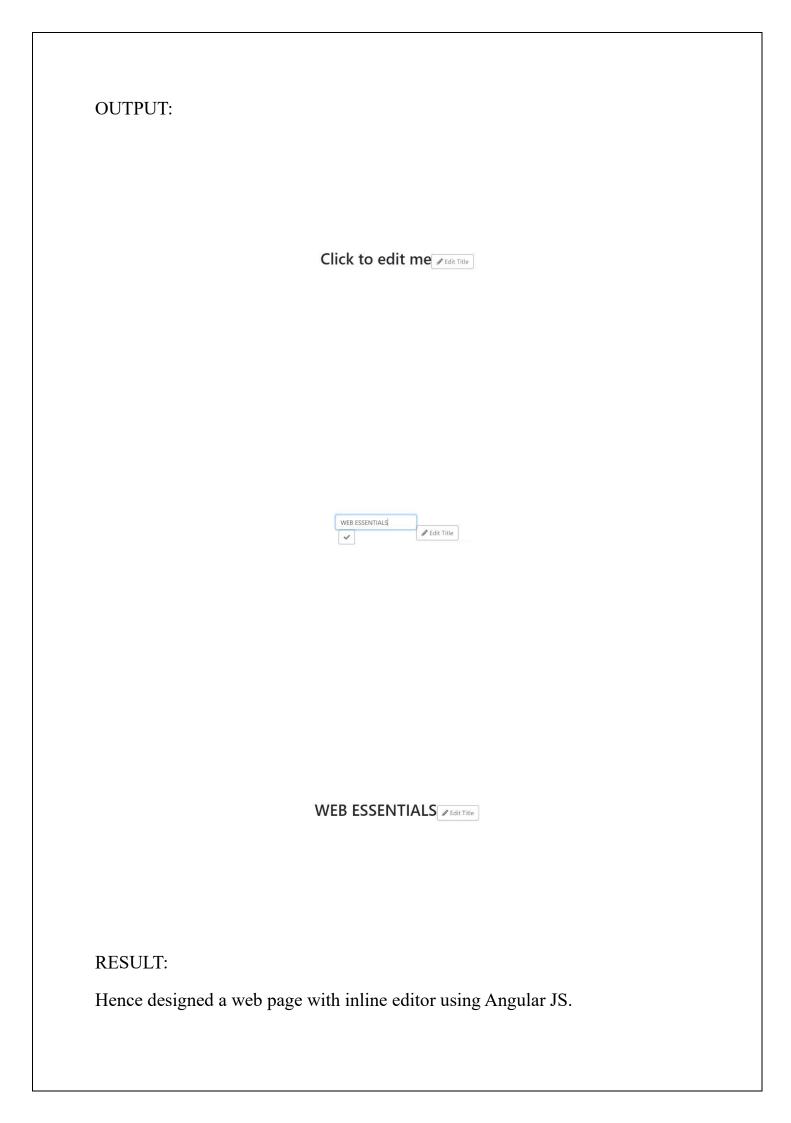
PROGRAM:

```
<!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/fontawesome/5.15.3/css/all.min.css">
```

```
<style>
  .center {
   display: flex;
                     justify-
                    align-
content: center;
                  height:
items: center;
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"</pre>
ngclick="ctrl.saveField('title')"><i class="fas fa-check"></i></button>
   </div>
```

```
</div>
  <button class="btn btn-outline-secondary mt-3" type="button"</pre>
ngclick="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
                    angular.module('inlineEditorApp', [])
cript> <script>
  .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;
   };
```

}) ;			



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>
<a href="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:
        justify-content:
flex;
           align-items:
center;
          height: 100%;
center;
```

```
}
 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-</pre>
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"</pre>
ngmodel="formCtrl.quantity">
   </div>
   <button type="button" class="btn btn-primary"</pre>
ngclick="formCtrl.addToCart()">Add to Cart</button>
   <div class="form-group mt-3">
    <label class="form-label">Cart:</label>
    {{
item.product.name }} - Quantity: {{ item.quantity }} - Total: ${{ item.total
}}
    </u1>
    Grand Total: ${{ formCtrl.grandTotal }}
   </div>
  </form>
 </div>
<script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></scri
              angular.module('orderFormApp', [])
pt> <script>
  .controller('OrderFormController', function() {
                    formCtrl.products = [
var formCtrl = this;
    { 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:

Web Essentials	
Web Hosting Domain Registration	
Quantity:	
Add to Cart	
Cart:	
Grand Total: \$0	
Products:	
Web Essentials	
Web Hosting Domain Registration	
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	
Add to Cart	
	00
Cart:	00

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..."</p>
ngmodel="searchCtrl.query">
  | filter:searchCtrl.query">{{ department }}
 </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>
```

>	
JT:	
11.	
	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
	Instant Search - Engineering Departments
	Instant Search - Engineering Departments Computer science and design Computer Science and Design
	Instant Search - Engineering Departments Computer science and design Computer Science and Design Instant Search - Engineering Departments
	Instant Search - Engineering Departments Computer science and design Computer Science and Design

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>

<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</pre>
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">
{{ item }}
   </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;
   };
  });
```

<pre> Switchable Grid Got Voor Rem 1 Rem 4 Rem 5 Switchable Grid Got Voor Rem 5 Rem 1 Rem 1 Rem 2 Rem 3 Rem 3 Rem 1 Rem 1 Rem 3 Rem 1 Rem 1 Rem 3 Rem 3</pre>				
Coutput: Switchable Grid God View Let View Item 1 Item 2 Item 3 Item 4 Item 5				
Coutput: Switchable Grid God View Let View Item 1 Item 2 Item 3 Item 4 Item 5	, 2011/20			
Switchable Grid Grid View Let View Rem 1 Rem 4 Rem 5 Switchable Grid Grid View Let View				
Switchable Grid Grid View Lat View Rem 1				
Switchable Grid Grid View Lat View Rem 1				
Switchable Grid Grid View Lat View Rem 1				
Switchable Grid Grid View Lat View Rem 1				
Item 1 Item 2 Item 3 Item 4 Item 5	OUTPUT:			
Item 1 Item 2 Item 3 Item 4 Item 5				
Item 1 Item 2 Item 3 Item 4 Item 5				
Item 1 Item 2 Item 3 Item 4 Item 5				
Item 1 Item 2 Item 3 Item 4 Switchable Grid Grid View List View		Switchable Grid		
Switchable Grid Grid View List View		Grid View List View		
Switchable Grid Grid View List View		Item 1	Item 2	Item 3
Grid View List View		Item 4	Item 5	
Grid View List View				
Grid View List View				
Grid View List View				
Grid View List View				
Grid View List View				
Grid View List View				
Grid View List View				
Grid View List View				
Grid View List View				
Grid View List View				
item 1	0			
Item 2				
Item 3		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:

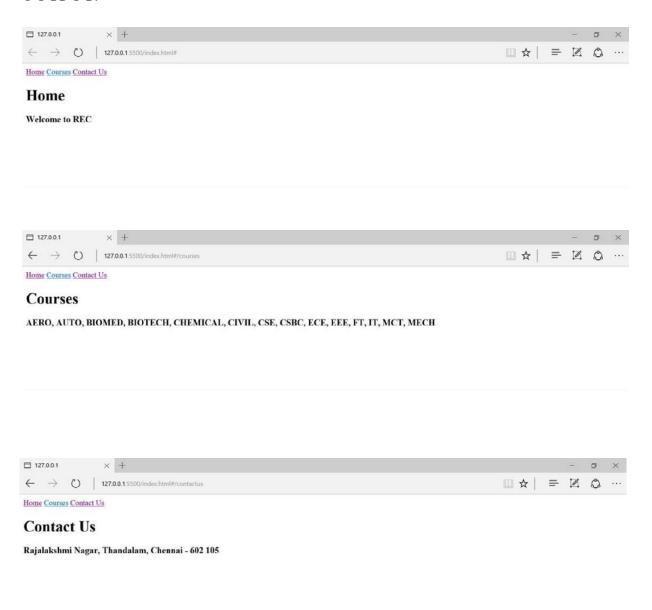
```
<style>
body {
font-family:
Arial, sans-
serif;
margin: 0;
padding: 0;
background-
color: #f4f4f4;
       display: flex;
                            flex-
direction: column;
                          justify-
content: center;
                       align-
                     height:
items: center;
100vh;
     }
      #navbar {
       background-color: #333;
overflow: hidden;
display: flex;
                    justify-
content: center;
                       align-
                     width:
items: center;
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/angularroute.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>
    <img src="P:\Saved Pictures\clg img.jpg" alt="Default Image">
    <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,
```

OUTPUT:



RESULT:

Hence developed a single page application using Angular JS.