



**KESHAV MEMORIAL INSTITUTE OF TECHNOLOGY**

**(AN AUTONOMOUS INSTITUTION)**

**Accredited by NBA & NAAC, Approved by AICTE, Affiliated to JNTUH, Hyderabad  
Narayanguda, Hyderabad – 500029**



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**LAB RECORD**  
**FRONT END WEB DEVELOPMENT LAB**

**B.Tech III YEAR II SEM (RKR21 Regulations)**  
**ACADEMIC YEAR 2024-25**



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## **Certificate**

This is to certify that following is a Bonafide Record of the workbook task done by

\_\_\_\_\_ bearing Roll No \_\_\_\_\_ of \_\_\_\_\_

Branch of \_\_\_\_\_ year B.Tech Course in the \_\_\_\_\_

Subject during the Academic year \_\_\_\_\_ & \_\_\_\_\_ under our supervision.

Number of week tasks completed: \_\_\_\_\_

Signature of Staff Member Incharge

Signature of Head of the Dept.

Signature of Internal Examiner

Signature of External Examiner

## INDEX

[illegible]



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## Daily Laboratory Assessment Sheet

S.No	Name of the Experiment	Date	Observation (3M)	Record (4M)	Viva Voce (3M)	Total (10M)	Signature of the Faculty

Signature



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## Department of Computer Science and Engineering

### Vision of the Institution:

1. To be the fountain head in producing highly skilled, globally competent engineers.
2. Producing quality graduates trained in the latest software technologies and related tools and striving to make India a world leader in software products and services.

### Mission of the Institution:

- To provide a learning environment that inculcates problem solving skills, professional, ethical responsibilities, lifelong learning through multi modal platforms and prepare students to become successful professionals.
- To establish Industry Institute Interaction to make students ready for the industry.
- To provide exposure to students on latest hardware and software tools.
- To promote research based projects/activities in the emerging areas of technology convergence.
- To encourage and enable students to not merely seek jobs from the industry but also to create new enterprises
- To induce a spirit of nationalism which will enable the student to develop, understand India's challenges and to encourage them to develop effective solutions.
- To support the faculty to accelerate their learning curve to deliver excellent service to students



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## Department of Computer Science and Engineering

### **Vision of the Department:**

To be among the region's premier teaching and research Computer Science and Engineering departments producing globally competent and socially responsible graduates in the most conducive academic environment.

### **Mission of the Department:**

1. To provide faculty with state of the art facilities for continuous professional development and research, both in foundational aspects and of relevance to emerging computing trends.
2. To impart skills that transform students to develop technical solutions for societal needs and inculcate entrepreneurial talents.
3. To inculcate an ability in students to pursue the advancement of knowledge in various specializations of Computer Science and Engineering and make them industry-ready.
4. To engage in collaborative research with academia and industry and generate adequate resources for research activities for seamless transfer of knowledge resulting in sponsored projects and consultancy.
5. To cultivate responsibility through sharing of knowledge and innovative computing solutions that benefit the society-at-large.
6. To collaborate with academia, industry and community to set high standards in academic excellence and in fulfilling societal responsibilities.



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**Department of Computer Science and Engineering**

## **PROGRAM OUTCOMES (POs)**

**PO1: Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

**PO2: Problem Analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

**PO3: Design/Development of Solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

**PO4: Conduct Investigations of Complex Problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

**PO5: Modern Tool Usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

**PO6: The Engineer and Society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

**PO7: Environment and Sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

**PO8: Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

**PO9: Individual and Team Work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

**PO10: Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

**PO11: Project Management and Finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

**PO12: Life-long Learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.





**Department of Computer Science and Engineering**

**PROGRAM SPECIFIC OUTCOMES (PSOs)**

**PSO1:** An ability to analyze the common business functions to design and develop appropriate Computer Science solutions for social upliftments.

**PSO2:** Shall have expertise on the evolving technologies like Python, Machine Learning, Deep Learning, Internet of Things (IOT), Data Science, Full stack development, Social Networks, Cyber Security, Big Data, Mobile Apps, CRM, ERP eetc.

**PROGRAM EDUCATIONAL OBJECTIVES (PEOs)**

**PEO1:** Graduates will have successful careers in computer related engineering fields or will be able to successfully pursue advanced higher education degrees.

**PEO2:** Graduates will try and provide solutions to challenging problems in their profession by applying computer engineering principles.

**PEO3:** Graduates will engage in life-long learning and professional development by rapidly adapting changing work environment.

**PEO4:** Graduates will communicate effectively, work collaboratively and exhibit high levels of professionalism and ethical responsibility.

## Department of Computer Science and Engineering

### Course Outcomes and CO-PO/PSO Mapping

Faculty Name: Dr.M.Anuradha

Subject Name: FEWD

Branch & Section: CSE A

Academic year: 2024-25

Year & Sem: III-II

#### COURSE OUTCOMES (COs):

	Course Outcome (CO)	PO/PSO	Blooms Taxonomy Level (BTL)
CO1	Apply HTML, CSS and Bootstrap effectively to create interactive and responsive portfolio website	1,2,3,5/1,2	3
CO2	Develop a component-based web UI for a website using ReactJS.	1,2,3,4,5/1,2	4
CO3	Apply event handling mechanism for the component-based UI	1,3,5/1,2	3
CO4	Comprehend, design and build a web application using React Hooks	1,2,3,4,5/1,2	4
CO5	Develop a web application using routing and AJAX methodology	1,2,3,4,5/3,2	4

#### CO-PO-PSO Matrix:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	1	1	2		2								3	2
CO2	2	1	3	1	2								2	3
CO3	2		2		2								1	2
CO4	2	2	2	1	1								2	3
CO5	2	2	2	1	2								2	3
Avg	1	1	2		1								2	2

Signature of Faculty

Signature of Subject Coordinator

### **CO-PO/PSO Mapping With Justification**

<b>Mapping</b>	<b>Level</b>	<b>Justification</b>
Students will be able to		
CO1-PO1	1	HTML and related concepts do not require high proficiency in Mathematics or Engineering.
CO1-PO2	1	As this involves UI Design, it is not that complex and does not require any knowledge of solving complex engineering problems.
CO1-PO3	2	There are concepts in design, like ARIA labels for form elements that require the students to understand that the website needs to be accessible by physically challenged individuals. So, societal considerations have to be made.
CO1-PO5	2	VS Code is the code editing tool that is used for working on creating web pages using HTML and bootstrap.
CO2-PO1	2	This involves the understanding of building and designing a website or a web application, so a good knowledge of Engineering fundamentals like UI design are expected.
CO2-PO2	1	Building ReactJS components does not require complex engineering problem solving methodologies, but one needs to know how to design UI.
CO2-PO3	3	ReactJS components need to be designed based on the UI that has been formulated or created, so this involves a good understanding about the component's design.
CO2-PO4	1	Data interpretation is needed to present data in ReactJS components.
CO2-PO5	2	NodeJS framework, VS Code and Chrome extensions are extensively used for building ReactJS components.
CO3-PO1	2	To understand when a form is submitted and how event handling is done, one needs to be understood logical behavior and must have problem solving skills.
CO3-PO3	2	Form design and event handling mechanism involves user interaction with form validation and it should be easily accessible to users of all types.
CO3-PO5	2	NodeJS framework, VS Code and Chrome extensions are extensively used for building ReactJS components.
C04-PO1	2	React Hooks are available in a varied range, one must have a good command on engineering knowledge in terms of modularizing the project to know when to use what hook and when to create custom hooks.
C04-PO2	2	As hooks are recently added one needs to have good troubleshooting and problem analysis knowledge.
C04-PO3	2	DOM tree reconciliation is one of the important aspects of ReactJS and Hooks, Design and Development of the project is around the same aspect.
C04-PO4	1	Good amount of research needs to be done on the type of users that will be accessing the web application, in terms of language and accessibility.
C04-PO5	1	NodeJS framework, VS Code and Chrome extensions are extensively used for building ReactJS components.
C05-PO1	2	For the weather app, temperature conversions, wind speeds and similar calculations need to be done, indicating requirement for mathematical knowledge.

C05-PO2	2	One needs to analyze the JSON data that weather site gives and decide on how to display the same, requiring identifying and formulating solutions.
C05-PO3	2	To meet the specific needs of the web app user, one must have knowledge in designing and developing web-based solutions.
C05-PO4	1	Data interpretation plays an important role in displaying weather information of a particular area.
C05-PO5	2	NodeJS framework, VS Code and Chrome extensions are extensively used for building ReactJS components.

### **CO-PSO Mapping Justification**

<b>Mapping</b>	<b>Level</b>	<b>Justification</b>
Students will be able to		
CO1-PSO1	3	Web application designs are needed for any business solutions.
CO1-PSO2	2	Bootstrap is one of the leading Web front end frameworks used for creation of responsive Web applications.
CO2-PSO1	2	One needs to know component-based design to build ReactJS Web Applications that are faster in response to the user.
CO2-PSO2	3	NodeJS framework and ReactJS library are one of the latest technologies used for creation of Web applications.
CO3-PSO1	1	Being able to design React Forms is one of the important aspects of getting data from the consumer to provide better business solutions.
CO3-PSO2	2	NodeJS framework and ReactJS library are one of the latest technologies used for creation of Web applications.
CO4-PSO1	2	Hooks are used in functional components of ReactJS, these help in developing solutions faster.
CO4-PSO2	3	NodeJS framework and ReactJS library are one of the latest technologies used for creation of Web applications.
CO5-PSO1	2	For providing weather details based on the information from the weather site one needs to design and develop appropriate web-based solution.
CO5-PSO2	3	NodeJS framework, ReactJS library are one of the latest technologies used for creation of Web applications.

**Signature of Faculty**

**Signature of Subject Coordinator**

## EXPERIMENT 1

### Create your portfolio page using HTMLtags

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Profile Page</title>
</head>
<body>

<h1 >Jane Doe</h1>
  
  <h3> Email: janedoe@johndoe.com</h3>
  <h3> Mobile Number :000-000-0000</h3>
  <hr width="100%" >
  <h3> Career Objective</h3>
  Seeking a responsible career opportunity in the field of
  Computer Science where I can utilize my logical and
  technical skills towards personal and professional development

  <h3> Academic Information </h3>
  <table border="3">
    <tr>
      <th>
        Course Details
      </th>
      <th>
        Institution
      </th>
      <th>
        University/Board
      </th>
      <th>
        Year of passing
      </th>
      <th>
        CGPA
      </th>
    </tr>
    <tr>
      <td> Bachelor of Technology
        (Computer Science)
      </td>
      <td>
      </td>
      <td>
      </td>
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      <td>
      </td>
    </tr>
  </table>
```

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Institute of  
Technology

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Intermediate-MPC

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Narayana Junior College, TS

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<th>

JNTUH

</th>

<th>

2017

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<th>

93.9%

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<tr>

<th>

School of Secondary  
Certificate

</th>

<th>

Vijaya Ratna Concept School

</th>

<th>

SSC

</th>

<th>

<th>2015  
</th>

9.5

</th>

</tr>

</table>

<h3> Technical skills </h3>

<h4> Programming Languages</h4>

<ul>

<li>C</li>

<li>Java</li>

<li>Python</li>

</ul>

<h4> Databases</h4>

<ul>

<li>MySQL</li>

</ul>

<h4>Web Technologies</h4>

<ul>

<li>HTML</li>

<li>CSS</li>

<li>BootStrap</li>

<li>Node</li>

<li>ReactJS</li>

<li>PHP</li>

</ul>

<h3> Projects </h3>

<ol>

<li>

<b> Project Title 1</b><br>

<b> Technical Stack:</b> MERN <br>

Lorem ipsum dolor, sit amet consectetur adipisicing elit. Illum rerum omnis earum enim amet ducimus, fugit hic obcaecati nam, suscipit magnam commodi impedit eos laboriosam nesciunt dolor aspernatur deserunt modi</p>

</li>

<li>

<b> Project Title 2</b><br>

<b> Technical Stack:</b> MEAN <br>

Lorem ipsum dolor, sit amet consectetur adipisicing elit. Illum rerum omnis earum enim amet ducimus, fugit hic obcaecati nam, suscipit magnam commodi impedit eos laboriosam nesciunt dolor aspernatur deserunt modi</p>

</li>

<li>

<b> Project Title 3</b><br>

<b> Technical Stack:</b> LAMP <br>

Lorem ipsum dolor, sit amet consectetur adipisicing elit. Illum rerum omnis earum enim amet ducimus, fugit hic obcaecati nam, suscipit magnam commodi impedit eos laboriosam nesciunt dolor aspernatur deserunt modi</p>

</li>

</ol>

<h3> Achievements </h3>

```
<ol>
  <li> Certified in Neural Networks and Deep Learning by Coursera </li>
  <li> Certified in Ethical Hacking course by NPTEL </li>
  <li> Participated in Scratch Programming Event in KMIT</li>
  <li> Participated in street cause </li>
</ol>

<h3> Strengths </h3>
<ul>
  <li> Positive attitude </li>
  <li> Self-motivated, focused and dedicated </li>
</ul>

<h3> Personal profile </h3>
<table>
  <tr><td><b>Current Location</b></td><td>:Hyderabad</td> </tr>
  <tr><td><b>Date of Birth </b> </td><td>:00-00-2000</td> </tr>
  <tr><td><b>Languages known</b></td><td>:English, Telugu, Hindi</td> </tr>
</table >
</body>
</html>
```



## EXPERIMENT 2

### 1. Update the portfolio page by adding styles to it. Add a contact Us form as well.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Profile Page</title>
</head>
<style>
  body {
    margin: 0;
    font-family: Arial, Helvetica, sans-serif;
    font-size: 12px;
    line-height: 20px;

    background-color: #FCF8E8;
    margin: 10px;
  }
  .profile {
    box-shadow: 0 4px 8px 0 rgba(0, 0, 0, 0.735);
    max-width: 15%;
    display: block;
    margin-left: auto;
    margin-right: auto;
  }
  .profile-text{
    display: block;
    margin-left: auto;
    margin-right: auto;
    max-width: 10%;
  }
  #score {
    font-family: Arial, Helvetica, sans-serif;
    border-collapse: collapse;
    width: 70%;
  }
  #score td, #score th {
    border: 1px solid #ddd;
    padding: 8px;
  }
  #score th {
    padding-top: 12px;
```

```
padding-bottom: 12px;
text-align: left;
background-color: #94B49F;
color: white;
text-decoration: solid;
}
```

```
.proj {
margin: auto;
width: 30%;
border: 2px solid #DF7861;
padding: 5px;
float: left;
}
```

```
#conform {
margin: auto;
border: 2px solid #DF7861;
padding: 5px;
float: left;
width: 25%;
}
</style>
<body>
```

```

<h1 class="profile-text">Jane Doe</h1>
<h3> Email: janedoe@geemail.com</h3>
<h3> Mobile Number :000-000-0000</h3>
<hr width="100%" >
<h3> Career Objective</h3>
Seeking a responsible career opportunity in the field of
Computer Science where I can utilize my logical and
technical skills towards personal and professional development
```

```
<h3> Academic Information </h3>
<table border="3" id="score">
  <tr>
    <th>
      Course Details
    </th>
    <th>
      Institution
    </th>
    <th>
      University/Board
    </th>
    <th>
      Year of passing
    </th>
    <th>
```

	CGPA
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	Keshav Memorial Institute of Technology
	JNTUH
	2021
	7.32
	Intermediate-MPC
	Narayana Junior College, TS
	JNTUH
	2017
	93.9%
	School of Secondary Certificate
	Vijaya Ratna Concept School

```

        <td>
            SSC
        </td>
        <td>
            2015
        </td>
        <td>
            9.5
        </td>
    </tr>
</table>

<h3> Technical skills </h3>
<h4> Programming Languages</h4>
<ul>
    <li>C</li>
    <li>Java</li>
    <li>Python</li>
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    <li>BootStrap</li>
    <li>Node</li>
    <li>ReactJS</li>
    <li>PHP</li>
</ul>

<h3> Projects </h3>

<div>
    <div class="proj">
        <b> Project Title 1</b><br>
        <b> Technical Stack:</b> MERN <br>
        Lorem ipsum dolor, sit amet consectetur adipisicing elit. Illum
rerum omnis earum enim amet ducimus, fugit hic obcaecati nam, suscipit magnam
commodi impedit eos laboriosam nesciunt dolor aspernatur deserunt modi</p>
    </div>
    <div class="proj">
        <b> Project Title 2</b><br>
        <b> Technical Stack:</b> MEAN <br>
        Lorem ipsum dolor, sit amet consectetur adipisicing elit. Illum
rerum omnis earum enim amet ducimus, fugit hic obcaecati nam, suscipit magnam
commodi impedit eos laboriosam nesciunt dolor aspernatur deserunt modi</p>
    </div>

```

```
<div class="proj">
  <b> Project Title 3</b><br>
  <b> Technical Stack:</b> LAMP <br>
  Lorem ipsum dolor, sit amet consectetur adipisicing elit. Illum
rerum omnis earum enim amet ducimus, fugit hic obcaecati nam, suscipit magnam
commodi impedit eos laboriosam nesciunt dolor aspernatur deserunt modi</p>
</div>
</div>

<h3> Achievements </h3>
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  <tr><td><b>Languages known</b></td><td>:English, Telugu, Hindi</td> </tr>
</table >

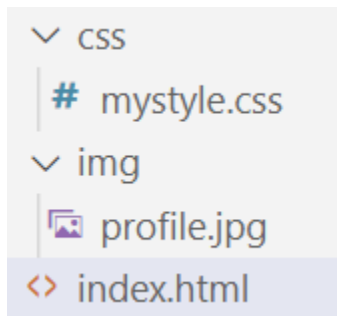
<h3> Contact me</h3>
<div id="conform">
  <form action="mailto:janedoe@geemail.com" method="POST"
  enctype="text/plain" name="EmailForm">
  <b> Name: </b> <br> <input type="text" size="40" name="ContactName"> <br>
  <b> Message: </b> <br> <textarea name="ContactComment" rows="6"
cols="40"></textarea><br>
  <input type="submit" value="Submit">
  </form>
</div>

</body>
</html>
```

## EXPERIMENT 3

2. Update the same page using external style sheets or move the added styles to a CSS file and add it to the HTML page

Folder Structure –



Css file –

```
body {  
margin: 0;  
font-family: Arial, Helvetica, sans-serif;  
font-size: 12px;  
line-height: 20px;  
  
background-color: #FCF8E8;  
margin: 10px;  
}  
.profile {  
    box-shadow: 0 4px 8px 0 rgba(0, 0, 0, 0.735);  
    max-width: 15%;  
    display: block;  
    margin-left: auto;  
    margin-right: auto;  
}  
}  
.profile-text{  
    display: block;  
    margin-left: auto;  
    margin-right: auto;  
    max-width: 10%;  
}  
}  
#score {  
font-family: Arial, Helvetica, sans-serif;  
border-collapse: collapse;  
width: 70%;  
}  
  
#score td, #score th {  
border: 1px solid #ddd;  
padding: 8px;  
}
```

```

#score th {
padding-top: 12px;
padding-bottom: 12px;
text-align: left;
background-color: #94B49F;
color: white;
text-decoration: solid;
}

.proj {
margin: auto;
width: 30%;
border: 2px solid #DF7861;
padding: 5px;
float: left;
}

#conform {
margin: auto;
border: 2px solid #DF7861;
padding: 5px;
float: left;
width: 25%;
}

```

Html file -

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Profile Page</title>
  <link rel="stylesheet" href="css/mystyle.css" />
</head>
<body>

  
  <h1 class="profile-text">Jane Doe</h1>
  <h3> Email: janedoe@geemail.com</h3>
  <h3> Mobile Number :000-000-0000</h3>
  <hr width="100%" >
  <h3> Career Objective</h3>
  Seeking a responsible career opportunity in the field of
  Computer Science where I can utilize my logical and
  technical skills towards personal and professional development

```

### <h3> Academic Information </h3>

<table border="3" id="score">

<tr>

<th>

Course Details

</th>

<th>

Institution

</th>

<th>

University/Board

</th>

<th>

Year of passing

</th>

<th>

CGPA

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</tr>

<tr>

<td>

Bachelor of Technology  
(Computer Science)

</td>

<td>

Keshav Memorial

Institute of Technology

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JNTUH

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2021

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Intermediate-MPC

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<td>

Narayana Junior College, TS

</td>

<td>

JNTUH

</td>



	2017
	93.9%
	School of Secondary Certificate
	Vijaya Ratna Concept School
	SSC
	2015
	9.5

</table>

<h3> Technical skills </h3>

<h4> Programming Languages</h4>

<ul>

<li>C</li>

<li>Java</li>

<li>Python</li>

</ul>

<h4> Databases</h4>

<ul>

<li>MySQL</li>

</ul>

<h4>Web Technologies</h4>

<ul>

<li>HTML</li>

<li>CSS</li>

<li>BootStrap</li>

<li>Node</li>

<li>ReactJS</li>

<li>PHP</li>

</ul>

<h3> Projects </h3>

```
<div>
  <div class="proj">
    <b> Project Title 1</b><br>
    <b> Technical Stack:</b> MERN <br>
    Lorem ipsum dolor, sit amet consectetur adipisicing elit. Illum
rerum omnis earum enim amet ducimus, fugit hic obcaecati nam, suscipit magnam
commodi impedit eos laboriosam nesciunt dolor aspernatur deserunt modi</p>
  </div>
  <div class="proj">
    <b> Project Title 2</b><br>
    <b> Technical Stack:</b> MEAN <br>
    Lorem ipsum dolor, sit amet consectetur adipisicing elit. Illum
rerum omnis earum enim amet ducimus, fugit hic obcaecati nam, suscipit magnam
commodi impedit eos laboriosam nesciunt dolor aspernatur deserunt modi</p>
  </div>
  <div class="proj">
    <b> Project Title 3</b><br>
    <b> Technical Stack:</b> LAMP <br>
    Lorem ipsum dolor, sit amet consectetur adipisicing elit. Illum
rerum omnis earum enim amet ducimus, fugit hic obcaecati nam, suscipit magnam
commodi impedit eos laboriosam nesciunt dolor aspernatur deserunt modi</p>
  </div>
</div>

<h3> Achievements </h3>
<ol>
  <li> Certified in Neural Networks and Deep Learning by Coursera </li>
  <li> Certified in Ethical Hacking course by NPTEL </li>
  <li> Participated in Scratch Programming Event in KMIT</li>
  <li> Participated in street cause </li>
</ol>

<h3> Strengths </h3>
<ul>
  <li> Positive attitude </li>
  <li> Self-motivated, focused and dedicated </li>
</ul>

<h3> Personal profile </h3>
<table>
  <tr><td><b>Current Location</b></td><td>:Hyderabad</td> </tr>
  <tr><td><b>Date of Birth </b> </td><td>:00-00-2000</td> </tr>
  <tr><td><b>Languages known</b></td><td>:English, Telugu, Hindi</td> </tr>
</table >

<h3> Contact me</h3>
<div id="conform">
  <form action="mailto:janedoe@geemail.com" method="POST"
  enctype="text/plain" name="EmailForm">
  <b> Name: </b><br> <input type="text" size="40" name="ContactName"> <br>
```

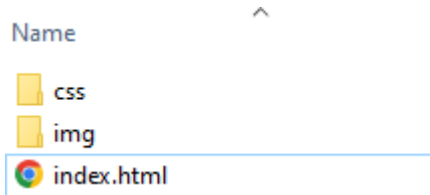
```
    <b> Message: </b>    <br> <textarea name="ContactComment" rows="6"
cols="40"></textarea><br>
    <input type="submit" value="Submit">
  </form>
</div>

</body>
</html>
```

## EXPERIMENT 4

### 3. Update the portfolio page to use Bootstrap

Folder structure –



img folder should have profile.jpg

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>Jane Doe</title>

  <!-- Bootstrap CSS -->

  <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/css/bootstrap.min.css">
  <script
src="https://cdn.jsdelivr.net/npm/jquery@3.6.0/dist/jquery.slim.min.js"></script>
  <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></scri
pt>
  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/js/bootstrap.bundle.min.js
"></script>
  <link href="css/mystyle.css" rel="stylesheet">
  <!-- Font Awesome icons (free version)-->
  <script src="https://use.fontawesome.com/releases/v6.1.0/js/all.js"
crossorigin="anonymous"></script>

</head>
<body>
  <nav class="navbar navbar-dark navbar-expand-sm fixed-top" style="background-
color: #bd5d38;">
    <div class="container">
      <button class="navbar-toggler" type="button" data-toggle="collapse"
data-target="#Navbar">
        <span class="navbar-toggler-icon"> </span>
      </button>
```

```

        <div class="collapse navbar-collapse" id="Navbar">
            <ul class="navbar-nav mr-auto">
                <li class="nav-item active"><a class="nav-link"
href="#"><span class="fa fa-home fa-lg"></span> About</a></li>
                <li class="nav-item"><a class="nav-link" href="#acads"><span
class="fa fa-list fa-lg"></span>Academics</a></li>
                <li class="nav-item"><a class="nav-link"
href="#techskills"><span class="fa fa-list fa-lg"></span>Technical
skills</a></li>
                <li class="nav-item"><a class="nav-link"
href="#projects"><span class="fa fa-info fa-lg"></span> Projects</a></li>
                <li class="nav-item"><a class="nav-link"
href="#achieves"><span class="fa fa-info fa-lg"></span> Achievements</a></li>
                <li class="nav-item"><a class="nav-link"
href="#contact"><span class="fa fa-address-card fa-lg"></span> Contact
Me</a></li>
            </ul>

        </div>
    </div>

</nav>

    <div class="container-fluid" >
        <div class="row" id="about">

            <div class="col-sm-8">
                <h1 class="display-4">Jane Doe</h1>
                <p class="lead"><b> janedoe@geemail.com</b></p>
                <hr class="my-4">
                <p><b> Career Objective </b> <br>Seeking a responsible career
opportunity in the field of Computer Science where I can utilize my logical and
technical skills towards personal and professional development </p>
                <p class="lead">

            </p>
            </div>
            <div class="col-sm-3">
                </span>
            </div>
        </div>

        <div class="row" id="acads">

            <div class="col-sm-8">
                <h1 class="display-4">Academics</h1>
                <table id="score" class="table table-striped table-bordered">

                    <tr>
                        <th>
                            Course Details

```

	Institution	University/Board	Year of passing	CGPA
	Bachelor of Technology (Computer Science)	Keshav Memorial Institute of Technology	JNTUH	2021
	Intermediate-MPC	Narayana Junior College, TS	JNTUH	2017
				93.9%

```
        </td>
    </tr>

    <tr>
        <td>
            School of Secondary
            Certificate
        </td>
        <td>
            Vijaya Ratna Concept School
        </td>
        <td>
            SSC
        </td>
        <td>
            2015
        </td>
        <td>
            9.5
        </td>
    </tr>

</table>
```

```
</div>
```

```
</div>
```

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

```
    <div class="col-sm-8">
        <h1 class="display-4">TechSkills</h1>
        <h4> Programming Languages</h4>
        <ul>
            <li>C</li>
            <li>Java</li>
            <li>Python</li>
        </ul>
        <h4> Databases</h4>
        <ul>
            <li>MySQL</li>
        </ul>
        <h4>Web Technologies</h4>
        <ul>
            <li>HTML</li>
            <li>CSS</li>
            <li>BootStrap</li>
            <li>Node</li>
            <li>ReactJS</li>
            <li>PHP</li>
        </ul>
    </div>
```

```

</div>

</div>

<div class="row" id="projects">

    <h1 class="display-4"> Projects</h1>
</div>
<div class="row" id="mycards">
    <div class="col-sm-3">
        <div class="card">
            <div class="card-body">
                <h5 class="card-title">Project Title 1</h5>
                <p class="card-text"> Praesentium expedita iste
veniam non. Deserunt voluptatum quibusdam sunt! Recusandae quod vel sequi,
consequatur ipsum voluptatibus cum reiciendis quia, </p>
                <a href="#" class="btn btn-primary">Launch Git</a>
            </div>
        </div>
    </div>
    <div class="col-sm-3">
        <div class="card">
            <div class="card-body">
                <h5 class="card-title">Project Title 2</h5>
                <p class="card-text"> Lorem ipsum dolor sit amet,
consectetur adipisicing elit. Dolorum quod excepturi dolores ad. Excepturi
expedita incidunt mollitia architecto sit,</p>
                <a href="#" class="btn btn-primary">Launch
Project</a>
            </div>
        </div>
    </div>
    <div class="col-sm-3">
        <div class="card">
            <div class="card-body">
                <h5 class="card-title">Project Title 3</h5>
                <p class="card-text">Lorem ipsum dolor sit amet
consectetur adipisicing elit. Voluptatem nostrum aliquid cupiditate totam. Quia
unde adipisci voluptates, consectetur earum, </p>
                <a href="#" class="btn btn-primary">Launch
Bitbucket</a>
            </div>
        </div>
    </div>
</div>

```



```

        <div class="row" id="achieves">

            <div class="col-sm-8">
                <h1 class="display-4">Achievements</h1>
                <ol class="mt-4 px-5">
                    <li> Certified in Neural Networks and Deep
Learning by Coursera </li>
                    <li> Certified in Ethical Hacking course by NPTEL
</li>
                    <li> Participated in Scratch Programming Event in
KMIT</li>
                    <li> Participated in street cause </li>
                </ol>

            </div>

        </div>

    </div>

    <div class="row" id="contact">

        <div class="col-sm-8">
            <h1 class="display-4">Contact Me</h1>
            <div id="conform">
                <form action="mailto:janedoe@geemail.com"
method="POST"
                enctype="text/plain" name="EmailForm">
                    <b> Name: </b> <br> <input type="text"
size="40" name="ContactName"> <br>
                    <b> Message: </b> <br> <textarea
name="ContactComment" rows="6" cols="40"></textarea><br>
                    <input type="submit" value="Submit">
                </form>
            </div>
        </div>

    </div>

<!-- Footer-->
<footer class="footer text-center">
    <div class="container">
        <div class="row">
            <!-- Footer Location-->
            <div class="col-lg-4 mb-5 mb-lg-0">
                <h5 class="mb-4">Location</h5>
                <p class="lead mb-0">
                    27 Jane Street, Jane Doe
                <br />

```

```

        TS 5000027
    </p>
</div>
<!-- Footer Social Icons-->
<div class="col-lg-4 mb-5 mb-lg-0">
    <h5 class="mb-4">Around the Web</h5>
    <a class="btn btn-outline-light btn-social mx-1"
href="#"><i class="fab fa-fw fa-facebook-f"></i></a>
    <a class="btn btn-outline-light btn-social mx-1"
href="#"><i class="fab fa-fw fa-twitter"></i></a>
    <a class="btn btn-outline-light btn-social mx-1"
href="#"><i class="fab fa-fw fa-linkedin-in"></i></a>
</div>
<!-- Footer About Text-->
<div class="col-lg-4">
    <h5 class="mb-4">About</h5>
    <p class="lead mb-0">
        This is a simple portfolio page of Jane Doe.
    </p>
</div>
</div>
</div>
</footer>

<!-- Copyright Section-->
<div class="copyright py-4 text-center text-white">
    <div class="container"><small>Copyright &copy; Jane Doe
2022</small></div>
</div>

</div>

</body>
</html>

```

mystyle.css

```

body{
    background-color: #fcf8e8;
}
.row{
    padding-top: 4rem;
}
.row-header{
    margin:0px auto;
    padding:0px;
}

```

```
.row-content {
  margin:0px auto;
  padding: 50px 0px 50px 0px;
  border-bottom: 1px ridge;
  min-height:400px;
}

.footer{
  background-color:#bd5d38;
  margin:0px auto;
  padding: 20px 0px 20px 0px;
  color: white;
}

.copyright{
  background-color:#9e3208
}

.address{
  font-size:80%;
  margin:0px;
  color:#0f0f0f;
}

body{
  padding:0px 0px 0px 0px;
  z-index:0;
}

#mynav{
  background-color: #bd5d38;
  color: white;
  z-index: 1;
}

.proimage{
border: 0.5rem solid #c8927f;
}

#achieves{
  margin-bottom: 18rem;
}

#acads{
  margin-bottom: 10rem;
}

#mycards{
  margin-bottom: 10rem;
}

#about{
  margin-bottom: 18rem;
}
```

```
#contact
```

```
{  
  margin-bottom: 5rem;  
}
```

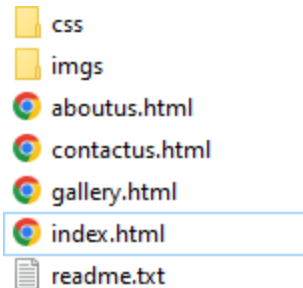
```
/* scroll */
```

```
html {  
  scroll-behavior: smooth;  
}
```

## EXPERIMENT 5

Create Home, AboutUs, Products, Partners, Contact Us pages for a static e-commerce website using Bootstrap. Add a gallery page using Bootstrap grid model. Add Navbar, header and footer to all pages. Add a Login link (Modal).

### Folder Structure



### index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Buy Best!</title>

  <!-- Bootstrap CSS -->

  <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/css/bootstrap.min.css">
  <script
src="https://cdn.jsdelivr.net/npm/jquery@3.6.0/dist/jquery.slim.min.js"></script>
  <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></scri
pt>
  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/js/bootstrap.bundle.min.js
"></script>
  <link href="css/mystyle.css" rel="stylesheet">
  <!-- Font Awesome icons (free version)-->
  <script src="https://use.fontawesome.com/releases/v6.1.0/js/all.js"
crossorigin="anonymous"></script>

</head>
<body>
  <nav class="navbar navbar-dark navbar-expand-sm fixed-top" style="background-
color: darkblue;">
    <div class="container">
      <button class="navbar-toggler" type="button" data-toggle="collapse"
data-target="#Navbar">
```

```

        <span class="navbar-toggler-icon"> </span>
    </button>
    <a class="navbar-brand mr-auto" href="#"> <a class="navbar-brand mr-
auto" href="#">
         </a>
    <div class="collapse navbar-collapse" id="Navbar">
        <ul class="navbar-nav mr-auto">
            <li class="nav-item active"><a class="nav-link"
href="index.html"><span class="fa fa-home fa-lg"></span> Home</a></li>
            <li class="nav-item"><a class="nav-link"
href="aboutus.html"><span class="fa fa-list fa-lg"></span> About Us</a></li>
            <li class="nav-item"><a class="nav-link"
href="gallery.html"><span class="fa fa-info fa-lg"></span> Products</a></li>
            <li class="nav-item"><a class="nav-link"
href="contactus.html"><span class="fa fa-address-card fa-lg"></span> Contact
Us</a></li>
        </ul>

    </div>
    <span class="navbar-text">
        <a data-toggle="modal" data-target="#loginModal">
            <span class="fa fa-sign-in"></span> Login</a>
    </span>
</div>

</nav>

```

```

<!-- Modal content-->
<div class="modal fade" id="loginModal" tabindex="-1" role="dialog"
aria-labelledby="myModalLabel"
aria-hidden="true">
    <div class="modal-dialog" role="document">
        <div class="modal-content">
            <div class="modal-header text-center">
                <h4 class="modal-title w-100 font-weight-bold">Login</h4>
                <button type="button" class="close" data-dismiss="modal" aria-
label="Close">
                    <span aria-hidden="true">&times;</span>
                </button>
            </div>
            <div class="modal-body mx-1">
                <div class="md-form mb-1">
                    <i class="fas fa-envelope prefix grey-text"></i>
                    <input type="email" id="defaultForm-email" class="form-control
validate">
                        <label data-error="wrong" data-success="right"
for="defaultForm-email">Your email</label>
                    </div>

                <div class="md-form mb-1">

```

```

        <i class="fas fa-lock prefix grey-text"></i>
        <input type="password" id="defaultForm-pass" class="form-
control validate">
        <label data-error="wrong" data-success="right"
for="defaultForm-pass">Your password</label>
        </div>

    </div>
    <div class="modal-footer d-flex justify-content-center">
        <button class="btn btn-default">Login</button>
    </div>
</div>
</div>
</div>

<div class="text-center">
    <a href="" class="btn btn-default btn-rounded mb-1" data-toggle="modal"
data-target="#modalLoginForm">Launch
        Login Form</a>
</div>

</div>
</div>

<div class="container">
    <div class="row">
        
    </div>
</div>

<!-- Footer-->
<footer class="footer text-center">
    <div class="container">
        <div class="row">
            <!-- Footer Location-->
            <div class="col-lg-4 mb-5 mb-lg-0">
                <h5 class="mb-4">Location</h5>
                <p class="lead mb-0">
                    27 Jane Street, John Doe
                    <br />
                    TS 5000027
                </p>
            </div>
            <!-- Footer Social Icons-->
            <div class="col-lg-4 mb-5 mb-lg-0">
                <h5 class="mb-4">Around the Web</h5>
                <a class="btn btn-outline-light btn-social mx-1"
href="#!"><i class="fab fa-fw fa-facebook-f"></i></a>
                <a class="btn btn-outline-light btn-social mx-1"
href="#!"><i class="fab fa-fw fa-twitter"></i></a>

```

```

                <a class="btn btn-outline-light btn-social mx-1"
href="#"><i class="fab fa-fw fa-linkedin-in"></i></a>
            </div>
            <!-- Footer About Text-->
            <div class="col-lg-4">
                <h5 class="mb-4">About</h5>
                <p class="lead mb-0">
                    BuyBest
                </p>
            </div>
        </div>
    </div>
</footer>

```

```

            <!-- Copyright Section-->
            <div class="copyright py-4 text-center text-white">
                <div class="container"><small>Copyright &copy; John Doe
2022</small></div>
            </div>

```

```

        </div>

```

```

</body>
</html>

```

#### Gallery.html

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Buy Best!</title>

    <!-- Bootstrap CSS -->

    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/css/bootstrap.min.css">
    <script
src="https://cdn.jsdelivr.net/npm/jquery@3.6.0/dist/jquery.slim.min.js"></script>

```



```

        <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></scri
pt>
        <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/js/bootstrap.bundle.min.js
"></script>
        <link href="css/mystyle.css" rel="stylesheet">
        <!-- Font Awesome icons (free version)-->
        <script src="https://use.fontawesome.com/releases/v6.1.0/js/all.js"
crossorigin="anonymous"></script>

    </head>
<body>
    <nav class="navbar navbar-dark navbar-expand-sm fixed-top" style="background-
color: darkblue;">
        <div class="container">
            <button class="navbar-toggler" type="button" data-toggle="collapse"
data-target="#Navbar">
                <span class="navbar-toggler-icon"> </span>
            </button>
            <a class="navbar-brand mr-auto" href="#"> <a class="navbar-brand mr-
auto" href="#">
                 </a>
            <div class="collapse navbar-collapse" id="Navbar">
                <ul class="navbar-nav mr-auto">
                    <li class="nav-item "><a class="nav-link"
href="index.html"><span class="fa fa-home fa-lg"></span> Home</a></li>
                    <li class="nav-item"><a class="nav-link"
href="aboutus.html"><span class="fa fa-list fa-lg"></span> About Us</a></li>
                    <li class="nav-item"><a class="nav-link active"
href="gallery.html"><span class="fa fa-info fa-lg"></span> Products</a></li>
                    <li class="nav-item"><a class="nav-link"
href="contactus.html"><span class="fa fa-address-card fa-lg"></span> Contact
Us</a></li>
                </ul>
            </div>
        </div>
    </nav>

    <div class="container">

        <div class="row">
            <div class="col-12 col-sm-3">
                <div class="media">
                    

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

```

```
</div>
<div class="col-12 col-sm-3">
  <div class="media">
    

  </div>
</div>
<div class="col-12 col-sm-3">
  <div class="media">
    

  </div>
</div>
<div class="col-12 col-sm-3">
  <div class="media">
    

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

<div class="row">
  <div class="col-12 col-sm-3">
    <div class="media">
      

    </div>
  </div>
  <div class="col-12 col-sm-3">
    <div class="media">
      

    </div>
  </div>
  <div class="col-12 col-sm-3">
    <div class="media">
      

    </div>
  </div>
  <div class="col-12 col-sm-3">
    <div class="media">
      

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

```

        </div>
    </div>

</div>

<div class="row">
    <div class="col-12 col-sm-3">
        <div class="media">
            

            </div>
        </div>
        <div class="col-12 col-sm-3">
            <div class="media">
                

                </div>
            </div>
            <div class="col-12 col-sm-3">
                <div class="media">
                    

                    </div>
                </div>
                <div class="col-12 col-sm-3">
                    <div class="media">
                        

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

```

```

<!-- Footer-->
<footer class="footer text-center">
    <div class="container">
        <div class="row">
            <!-- Footer Location-->
            <div class="col-lg-4 mb-5 mb-lg-0">
                <h5 class="mb-4">Location</h5>
                <p class="lead mb-0">
                    27 Jane Street, John Doe
                    <br />
                    TS 5000027
                </p>
            </div>
            <!-- Footer Social Icons-->

```

```

        <div class="col-lg-4 mb-5 mb-lg-0">
            <h5 class="mb-4">Around the Web</h5>
            <a class="btn btn-outline-light btn-social mx-1"
href="#"><i class="fab fa-fw fa-facebook-f"></i></a>
            <a class="btn btn-outline-light btn-social mx-1"
href="#"><i class="fab fa-fw fa-twitter"></i></a>
            <a class="btn btn-outline-light btn-social mx-1"
href="#"><i class="fab fa-fw fa-linkedin-in"></i></a>
        </div>
        <!-- Footer About Text-->
        <div class="col-lg-4">
            <h5 class="mb-4">About</h5>
            <p class="lead mb-0">
                Buy Best
            </p>
        </div>
    </div>
</div>

</footer>

```

```

        <!-- Copyright Section-->
        <div class="copyright py-4 text-center text-white">
            <div class="container"><small>Copyright &copy; John Doe
2022</small></div>
        </div>

```

```

    </div>

```

```

</body>
</html>

```

aboutus.html

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Buy Best!</title>

    <!-- Bootstrap CSS -->

    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/css/bootstrap.min.css">
    <script
src="https://cdn.jsdelivr.net/npm/jquery@3.6.0/dist/jquery.slim.min.js"></script>

```

```

        <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></scri
pt>
        <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/js/bootstrap.bundle.min.js
"></script>
        <link href="css/mystyle.css" rel="stylesheet">
        <!-- Font Awesome icons (free version)-->
        <script src="https://use.fontawesome.com/releases/v6.1.0/js/all.js"
crossorigin="anonymous"></script>

    </head>
<body>
    <nav class="navbar navbar-dark navbar-expand-sm fixed-top" style="background-
color: darkblue;">
        <div class="container">
            <button class="navbar-toggler" type="button" data-toggle="collapse"
data-target="#Navbar">
                <span class="navbar-toggler-icon"> </span>
            </button>
            <a class="navbar-brand mr-auto" href="#"> <a class="navbar-brand mr-
auto" href="#">
                 </a>
            <div class="collapse navbar-collapse" id="Navbar">
                <ul class="navbar-nav mr-auto">
                    <li class="nav-item "><a class="nav-link"
href="index.html"><span class="fa fa-home fa-lg"></span> Home</a></li>
                    <li class="nav-item active"><a class="nav-link"
href="aboutus.html"><span class="fa fa-list fa-lg"></span> About Us</a></li>
                    <li class="nav-item"><a class="nav-link"
href="gallery.html"><span class="fa fa-info fa-lg"></span> Products</a></li>
                    <li class="nav-item"><a class="nav-link"
href="contactus.html"><span class="fa fa-address-card fa-lg"></span> Contact
Us</a></li>
                </ul>
            </div>
        </div>
    </nav>

    <div class="container">

        <div class="row">
            <div class="col-12 col-sm-10 mt-4">
                <p>
Welcome to BuyBest, your number one source for all phones and
gadgets.<br> <p> We are dedicated to giving you the very best,
with a focus on
                dependability, customer service and uniqueness.

```

Founded in 2019 , BuyBest has come a long way from its beginnings in a home office, toolshed, Hyderabad, TS. When Maithri R first started out, her passion was to help others by providing the best gadgets , this drove her to do intense research, quit her day job, and gave her the impetus to turn hard work and inspiration into a booming online store. We now serve customers all over Telangana, and are thrilled to be a part of the fair trade wing of the gadgets industry.

</p>

<p>

We hope you enjoy our products as much as we enjoy offering them

to you.

If you have any questions or comments, please don't hesitate to contact us.

</p>

Sincerely, <br>

Chaithra R,<br>

CEO

</div>

</div>

<!-- Footer-->

<footer class="footer text-center">

<div class="container">

<div class="row">

<!-- Footer Location-->

<div class="col-lg-4 mb-5 mb-lg-0">

<h5 class=" mb-4">Location</h5>

<p class="lead mb-0">

27 Jane Street, John Doe

<br />

TS 5000027

</p>

</div>

<!-- Footer Social Icons-->

<div class="col-lg-4 mb-5 mb-lg-0">

<h5 class=" mb-4">Around the Web</h5>

<a class="btn btn-outline-light btn-social mx-1"

href="#"><i class="fab fa-fw fa-facebook-f"></i></a>

<a class="btn btn-outline-light btn-social mx-1"

href="#"><i class="fab fa-fw fa-twitter"></i></a>

<a class="btn btn-outline-light btn-social mx-1"

href="#"><i class="fab fa-fw fa-linkedin-in"></i></a>

</div>

<!-- Footer About Text-->

<div class="col-lg-4">

<h5 class="mb-4">About</h5>

<p class="lead mb-0">

```

        Buy Best
    </p>
</div>
</div>
</div>

</footer>

<!-- Copyright Section-->
<div class="copyright py-4 text-center text-white">
    <div class="container"><small>Copyright &copy; John Doe
2022</small></div>
</div>

</div>

</body>
</html>

```

Contactus.html

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Buy Best!</title>

    <!-- Bootstrap CSS -->

    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/css/bootstrap.min.css">
    <script
src="https://cdn.jsdelivr.net/npm/jquery@3.6.0/dist/jquery.slim.min.js"></script>
    <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></scri
pt>
    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/js/bootstrap.bundle.min.js
"></script>
    <link href="css/mystyle.css" rel="stylesheet">
    <!-- Font Awesome icons (free version)-->
    <script src="https://use.fontawesome.com/releases/v6.1.0/js/all.js"
crossorigin="anonymous"></script>

</head>
<body>

```

```

<nav class="navbar navbar-dark navbar-expand-sm fixed-top" style="background-
color: darkblue;">
    <div class="container">
        <button class="navbar-toggler" type="button" data-toggle="collapse"
data-target="#Navbar">
            <span class="navbar-toggler-icon"> </span>
        </button>
        <a class="navbar-brand mr-auto" href="#"> <a class="navbar-brand mr-
auto" href="#">
             </a>
        <div class="collapse navbar-collapse" id="Navbar">
            <ul class="navbar-nav mr-auto">
                <li class="nav-item "><a class="nav-link"
href="index.html"><span class="fa fa-home fa-lg"></span> Home</a></li>
                <li class="nav-item "><a class="nav-link"
href="aboutus.html"><span class="fa fa-list fa-lg"></span> About Us</a></li>
                <li class="nav-item"><a class="nav-link"
href="gallery.html"><span class="fa fa-info fa-lg"></span> Products</a></li>
                <li class="nav-item active" ><a class="nav-link"
href="contactus.html"><span class="fa fa-address-card fa-lg"></span> Contact
Us</a></li>
            </ul>
        </div>
    </div>
</nav>

<div class="container">

    <div class="row">
        <div class="col-12 col-sm-10 mt-4">
            <div class="col-sm-8">
                <h3 class="display-4">Contact Us</h3>
                <div id="conform">
                    <form action="mailto:janedoe@geemail.com" method="POST"
enctype="text/plain" name="EmailForm">
                        Name:<br> <input type="text" size="40" name="ContactName">
<br>
                        Message: <br> <textarea name="ContactComment" rows="6"
cols="40"></textarea><br>
                        <input type="submit" value="Submit">
                    </form>
                </div>
            </div>
        </div>
    </div>
</div>

```



```

<!-- Footer-->
<footer class="footer text-center">
  <div class="container">
    <div class="row">
      <!-- Footer Location-->
      <div class="col-lg-4 mb-5 mb-lg-0">
        <h5 class="mb-4">Location</h5>
        <p class="lead mb-0">
          27 Jane Street, John Doe
          <br />
          TS 5000027
        </p>
      </div>
      <!-- Footer Social Icons-->
      <div class="col-lg-4 mb-5 mb-lg-0">
        <h5 class="mb-4">Around the Web</h5>
        <a class="btn btn-outline-light btn-social mx-1"
href="#"><i class="fab fa-fw fa-facebook-f"></i></a>
        <a class="btn btn-outline-light btn-social mx-1"
href="#"><i class="fab fa-fw fa-twitter"></i></a>
        <a class="btn btn-outline-light btn-social mx-1"
href="#"><i class="fab fa-fw fa-linkedin-in"></i></a>
      </div>
      <!-- Footer About Text-->
      <div class="col-lg-4">
        <h5 class="mb-4">About</h5>
        <p class="lead mb-0">
          Buy Best
        </p>
      </div>
    </div>
  </div>
</footer>

  <!-- Copyright Section-->
  <div class="copyright py-4 text-center text-white">
    <div class="container"><small>Copyright &copy; John Doe
2022</small></div>
  </div>

</div>

</body>
</html>

```

```
mystyle.css
body{
  background-color: #fcf8e8;
  font-family:sans-serif;
}
.row{
  padding-top: 4rem;
}
.row-header{
  margin:0px auto;
  padding:0px;
}

.row-content {
  margin:0px auto;
  padding: 50px 0px 50px 0px;
  border-bottom: 1px ridge;
  min-height:400px;
}

.footer{
  background-color:darkblue;
  margin:0px auto;
  padding: 20px 0px 20px 0px;
  color: white;
}
.copyright{
  background-color:darkblue
}
.address{
  font-size:80%;
  margin:0px;
  color:#0f0f0f;
}
body{
  padding:0px 0px 0px 0px;
}

#mynav{
  background-color: #bd5d38;
  color: white;
  z-index: 1;
}
.proimage{
border: 0.5rem solid #c8927f;
}

#achieves{
  margin-bottom: 18rem;
}
```

```
    }
#acads{
    margin-bottom: 10rem;
}
#mycards{
    margin-bottom: 10rem;
}

#about{
    margin-bottom: 18rem;
}

#contact{
    margin-bottom: 5rem;
}

/* scroll */
html {
    scroll-behavior: smooth;
}
```

## Lab Experiment 6

### Lab6.js

```
import React, { useState, useEffect } from 'react'; import axios from
'axios';

const Lab6 = () => {
  const [weather, setWeather] = useState(null); const [loading, setLoading]
  = useState(true); const [error, setError] = useState(null);

  const city = "Hyderabad"; //Replace with any city name
  const apiKey = '61a1d8419f9d307924240958d89e284d'; // Replace with your
  actual OpenWeatherMap API key

  useEffect(() => {
    const fetchWeather = async () => { try { const
    response = await axios.get(

    `https://api.openweathermap.org/data/2.5/weather?q=${city}&appid=${a
    piKey}`
    );
    setWeather(response.data); setLoading(false);
    } catch (err) { setError(err); setLoading(false);
    }
    };

    fetchWeather();
  }, []);

  if (loading) return <p>Loading weather...</p>;
  if (error) return <p>Error fetching weather: {error.message}</p>;

  return (
    <div>
      <h2>Weather in {weather.name}</h2>
      <p>Temperature: {(weather.main.temp - 273.15).toFixed(2)}°C</p>
      <p>Condition: {weather.weather[0].description}</p>
    </div>
  );
};

export default Lab6;
```

App.js

---

```
import './App.css';
import Lab6 from './components/Lab6';

function App() { return (
  <div className="App">
    <header className="App-header">
      <Lab6/>
    </header>
  </div>
);
export default App;
```

## Experiment - 7

Update the 'contact us' page to a ReactJS component. An email should be sent each time contact us form is submitted

EmailForm.js

```
import React, { useState } from 'react';
```

```
import './Emailform.css'; // Make sure to import the CSS file
```

```
const formConfig = [
```

```
  { id: 1, type: "text", name: "firstName", placeholder: "First Name" },
```

```
  { id: 2, type: "text", name: "lastName", placeholder: "Last Name" },
```

```
  { id: 3, type: "email", name: "email", placeholder: "Email" },
```

```
  { id: 4, type: "textarea", name: "message", placeholder: "Message" },
```

```
];
```

```
import React, { useState } from 'react';
```

```
import './Emailform.css'; // Make sure to import the CSS file
```

```
const formConfig = [
```

```
{ id: 1, type: "text", name: "firstName", placeholder: "First Name" },
```

```
{ id: 2, type: "text", name: "lastName", placeholder: "Last Name" },
```

```
{ id: 3, type: "email", name: "email", placeholder: "Email" },
```

```
{ id: 4, type: "textarea", name: "message", placeholder: "Message" },
```

```
];
```

```
// Custom Dynamic Input Component
```

```
function InputField({ type, name, placeholder, value, onChange }) { if  
(type === "textarea") {
```

```
  return (
```

```
    <textarea
```

```
      className="form-textarea" name={name}
```

```
      placeholder={placeholder} value={value} onChange={onChange} required
```

```
    />
```

```
  );
```

```
}
```

```
return (  
  <input  
    className="form-input" type={type}  
    name={name} placeholder={placeholder}  
  
    value={value} onChange={onChange} required  
  />  
);  
}
```

```
const EmailForm = () => {  
  const [formData, setFormData] = useState({ firstName: '',  
    lastName: '',  
    email: '', message: ''  
  });
```

```
  const handleChange = (e) => { const { name, value } = e.target;  
    setFormData((prevData) => ({  
      ...prevData, [name]: value  
    }));  
  };
```

```
  const handleSubmit = (e) => { e.preventDefault();
```

```
    // Print form data to console console.log('Form Data:', formData);
```

```
    // Clear the form fields setFormData({ firstName: '',  
    lastName: '',  
    email: '', message: ''  
  });
```

```
    // Alert the user  
    alert('Form submitted successfully!');  
  };
```

```

return (
  <div className="form-container">
    <form className="email-form" onSubmit={handleSubmit}>
      {formConfig.map((field) => (
        <div className="form-field" key={field.id}>
          <label className="form-label">
            {field.placeholder}:
            <InputField
              type={field.type} name={field.name} placeholder={field.placeholder}
              value={formData[field.name]} onChange={handleChange}
            />
          </label>
        </div>
      ))}
      <button className="form-button" type="submit">Send</button>
    </form>
  </div>
);
};

export default EmailForm;

EmailForm.css
.form-container { max-width: 600px; margin: 0 auto;

padding: 20px;
background-color: #f9f9f9; border: 1px solid #ddd; border-radius: 8px;
box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
}

.email-form { display: flex;
flex-direction: column;
}

.form-field {
margin-bottom: 15px;

.form-label {
font-weight: bold; margin-bottom: 5px; display: block;
}

```



```
.form-input,  
.form-textarea { width: 100%; padding: 10px;  
border: 1px solid #ccc; border-radius: 4px; box-sizing: border-box; font-  
size: 16px;  
}
```

```
.form-input:focus,  
.form-textarea:focus { border-color: #007BFF;
```

```
outline: none;  
}
```

```
.form-textarea { resize: vertical; height: 100px;  
}
```

```
.form-button { padding: 10px 20px;  
background-color: #007BFF; color: white;  
border: none; border-radius: 4px; cursor: pointer; font-size: 16px;  
}
```

```
.form-button:hover {  
background-color: #0056b3;  
}
```

```
App.js  
import React from 'react';  
import EmailForm from './components/From';
```

```
const App = () => { return (  
<div>  
<EmailForm/>  
</div>  
);  
};
```

```
export default App;
```

## Lab Experiment 8

Add a Login component using ReactJs. User should be able to login, using pre-defined logins. Session should be maintained using react hooks.

To create a login component in React that uses predefined logins and maintains a session using hooks, follow these steps:

1. Set Up the Project
2. Create a Context for Authentication
3. Create the Login Component
4. Create a Component to Display After Login
5. Integrate Everything in the App Component

```
import React, { useState, useEffect } from 'react';
import { useNavigate } from 'react-router-dom';
import { Container, Row, Col, Card } from 'react-bootstrap';

const defaultUsers = [
  { email: 'abc@gmail.com', password: '1234' },
  { email: 'erdf@example.com', password: '5678' },
];

const Login = () => {
  const navigate = useNavigate();

  const [formData, setFormData] = useState({ email: '', password: '' });
  const [message, setMessage] = useState('');

  useEffect(() => {
    const user = localStorage.getItem('user');
    if (user) {
      navigate('/');
    }
  }, [navigate]);
```

```

const handleChange = (e) => {
  const { name, value } = e.target;
  setFormData((prevData) => ({
    ...prevData,
    [name]: value
  }));
};

const handleSubmit = (e) => {
  e.preventDefault();

  const userFound = defaultUsers.some(user =>
    user.email === formData.email && user.password ===
    formData.password
  );

  if (userFound) {
    setMessage('Login Successful ');
    localStorage.setItem('user', JSON.stringify(formData));
    sessionStorage.setItem('user', JSON.stringify(formData));

    setTimeout(() => {
      navigate('/');
    }, 800);
  } else {
    setMessage('Invalid credentials ');
  }
}

return (
  <Container fluid className="vh-100">
    <Row className="h-100">
      {/* Login Side */}

```

```

<Col md={6}
      className="d-flex justify-content-center align-items-center"
    >
      <Card className="p-4 shadow" style={{ width: '100%',
maxWidth: '400px' }}>
        <h2 className="text-center mb-4">Login</h2>
        <form onSubmit={handleSubmit}>
          <div className="mb-3">
            <label className="form-label">Email</label>
            <input
              type="email"
              name="email"
              className="form-control"
              value={formData.email}
              onChange={handleChange}
              required
            />
          </div>
          <div className="mb-3">
            <label className="form-label">Password</label>
            <input
              type="password"
              name="password"
              className="form-control"
              value={formData.password}
              onChange={handleChange}
              required
            />
          </div>
          {message && (
            <div className="mb-3 text-center">
              <small>{message}</small>
            </div>
          )}
        </form>
      </Card>
    </Col>
  )}

```

```
<button type="submit" className="btn btn-primary w-100">
    Login
</button>
</form>
</Card>
</Col>

{/* Image Side */}
<Col className='mx-5'>
    
</Col>
</Row>
</Container>
);
};

export default Login;
```

## Experiment - 9

Each page in the site should be a React JS component and the elements in each page should be child components

```
src/
├── components/
│   ├── Header.js
│   ├── Footer.js
│   ├── Home/
│   │   ├── Home.js
│   │   ├── HomeChild1.js
│   │   └── HomeChild2.js
│   ├── About/
│   │   ├── About.js
│   │   ├── AboutChild1.js
│   │   └── AboutChild2.js
│   └── Contact/
│       ├── Contact.js
│       ├── ContactChild1.js
│       └── ContactChild2.js
├── App.js
└── index.js
```

Header.js

```
import React from
'react'; const Header
= () => {
  return (
    <header>
      <h1>My Website</h1>
      <nav>
        <a href="/">Home</a>
        <a href="/about">About</a>
        <a href="/contact">Contact</a>
      </nav>
    </header>
  );
};
export default Header;
```

Footer.js

```
import React from 'react';
const Footer = () => {
  return <footer>© 2024 My Website</footer>;
};
export default Footer;
```

Home/Home.js

```
import React from 'react';
import HomeChild1 from
'./HomeChild1'; import
HomeChild2 from './HomeChild2';
const Home = () => {
  return (
    <div>
      <h2>Home Page</h2>
      <HomeChild1 />
      <HomeChild2 />
    </div>
  );
};
export default Home;
```

Home/HomeChild1.js

```
import React from
'react'; const
HomeChild1 = () => {
  return <div>Home Child 1 Content</div>;
};
export default HomeChild1;
```

Home/HomeChild2.js

```

import React from
'react'; const
HomeChild2 = () => {
  return <div>Home Child 2 Content</div>;
};
About/Abuot.js

import React from 'react';
import AboutChild1 from
'./AboutChild1'; import
AboutChild2 from
'./AboutChild2'; const About =
() => {
  return (
    <div>
      <h2>About Page</h2>
      <AboutChild1 /> <AboutChild2 /> </div>
    );
};
export default About;
About/Aboutchild1.js
import React from
'react'; const
AboutChild1 = () => {
  return <div>About Child 1 Content</div>;
};
export default AboutChild1;
About/Aboutchild2.js
import React from
'react'; const
AboutChild2 = () => {
  return <div>About Child 2 Content</div>;
};
export default AboutChild2;
Apps.js

```



```
import React from 'react';

import Home from './components/Home/Home';

const App = ()
=> { return (
  <div>
    <Home/>
  </div>
);
};

export default App;
```

## Experiment - 10

### useRef hook:

Create a component to capture the numeric value entered by the user. Use useRef to track how many times the component has rendered.

Use useEffect to update the render count every time the component re-renders.

Display the render count on the screen.

```
import React, { useState, useRef, useEffect } from 'react';

export default function RenderTracker() {
  const [number, setNumber] = useState('');
  const renderCount = useRef(0);
  const prevNumber = useRef('');

  useEffect(() => {
    renderCount.current += 1;
  });

  useEffect(() => {
    prevNumber.current = number;
  }, [number]);

  return (
    <div style={{ fontFamily: 'Arial', padding: '20px' }}>
      <h2>Render Tracker</h2>
      <input
        type="number"
        value={number}
        onChange={(e) => setNumber(e.target.value)}
        placeholder="Enter a number"
        style={{ padding: '8px', fontSize: '16px' }}
      />
      <p>Render Count: {renderCount.current}</p>
      <p>Previous Value: {prevNumber.current}</p>
      <p>Current Value: {number}</p>
    </div>
  );
}
```

## Experiment - 11

### useEffect hook:

Create a component that shows whether the user is online or offline Use useEffect to add event listeners for 'online' and 'offline' events Display an appropriate message based on the connection status Clean up the listeners when the component unmounts

```
import React, { useState, useEffect } from 'react';

const OnlineStatus = () => {
  const [isOnline, setIsOnline] = useState(navigator.onLine);

  useEffect(() => {
    const handleOnline = () => setIsOnline(true);
    const handleOffline = () => setIsOnline(false);

    window.addEventListener('online', handleOnline);
    window.addEventListener('offline', handleOffline);

    // Cleanup event listeners on component unmount
    return () => {
      window.removeEventListener('online', handleOnline);
      window.removeEventListener('offline', handleOffline);
    };
  }, []);

  return (
    <div style={{ fontFamily: 'Arial', padding: '20px' }}>
      <h2>Network Status</h2>
      <p>
        Status:{' '}
        <span style={{ color: isOnline ? 'green' : 'red', fontWeight:
'bold' }}>
          {isOnline ? ' Online' : 'Offline'}
        </span>
      </p>
    </div>
  );
};

export default OnlineStatus;
```

## Experiment - 12

Use state hook:

Create a form with name, email, and message fields Use useState to track each field's value Display the submitted values when the form is submitted Add form validation (e.g., email must contain '@')

```
import React, { useState } from 'react';

const ContactForm = () => {
  const [name, setName] = useState('');
  const [email, setEmail] = useState('');
  const [message, setMessage] = useState('');
  const [submittedData, setSubmittedData] = useState(null);
  const [error, setError] = useState('');

  const handleSubmit = (e) => {
    e.preventDefault();

    // Simple validation
    if (!name || !email || !message) {
      setError('All fields are required.');
```

return;

```
    }

    if (!email.includes('@')) {
      setError('Invalid email. Must contain "@" symbol.');
```

return;

```
    }

    setError('');
    setSubmittedData({ name, email, message });

    // Optional: Clear form after submission
    setName('');
    setEmail('');
    setMessage('');
  };

  return (
    <div style={{ fontFamily: 'Arial', padding: '20px', maxWidth: '400px' }}>
      <h2>Contact Form</h2>
      <form onSubmit={handleSubmit}>
        <div style={{ marginBottom: '10px' }}>
          <label>Name:</label><br />
          <input
```

```

        type="text"
        value={name}
        onChange={(e) => setName(e.target.value)}
        required
        style={{ width: '100%' }}
      />
    </div>

    <div style={{ marginBottom: '10px' }}>
      <label>Email:</label><br />
      <input
        type="email"
        value={email}
        onChange={(e) => setEmail(e.target.value)}
        required
        style={{ width: '100%' }}
      />
    </div>

    <div style={{ marginBottom: '10px' }}>
      <label>Message:</label><br />
      <textarea
        value={message}
        onChange={(e) => setMessage(e.target.value)}
        required
        rows={4}
        style={{ width: '100%' }}
      />
    </div>

    <button type="submit">Submit</button>

    {error && <p style={{ color: 'red' }}>{error}</p>}
  </form>

  {submittedData && (
    <div style={{ marginTop: '20px', background: '#f0f0f0', padding:
'10px' }}>
      <h3>Submitted Data:</h3>
      <p><strong>Name:</strong> {submittedData.name}</p>
      <p><strong>Email:</strong> {submittedData.email}</p>
      <p><strong>Message:</strong> {submittedData.message}</p>
    </div>
  )}
</div>
);
};

export default ContactForm;

```

## Experiment - 13

**React Routing should be used to take care of routing from browser location bar and also from Navbar**

App.js

```
import React from 'react';
import { BrowserRouter as Router, Route, Routes } from
'react-router-dom'; import Home from './components/Home';
import About from './components/About';
import Contact from
'./components/Contact'; import Navbar
from './components/Navbar';
```

```
function App() {
  return (
    <Router>
      <div>
        <Navbar />
        <Routes>
          <Route path="/" element={<Home />} />
          <Route path="/about" element={<About />} />
          <Route path="/contact" element={<Contact />} />
        </Routes>
      </div>
    </Router>
  );
}
```

```
export default App;
```

Home.js

```
import React from 'react';
const Home = ()
=> { return (
  <div>
    <h1>Home Page</h1>
    <p>Welcome to the Home page!</p>
  </div>
);
}
```

export default Home;

About.js

```
import React from 'react';

const About = ()
=> { return (
  <div>
    <h1>About Page</h1>
    <p>Welcome to the About page!</p>
  </div>
);
}
```

export default About;

Contact.js

```
import React from 'react';
```

```
const Contact = () => {
```

```
  return (
```

```
    <div>
```

```
      <h1>Contact Page</h1>
```

```
      <p>Welcome to the Contact page!</p>
```

```
    </div>
```

```
  );
```

```
}
```

```
export default Contact;
```



## Experiment - 14

### React routing using Axios package

Create an Application which interacts with the API using axios package.

1. List the Users data from API with HTTP GET request.
2. Insert the new user into API with HTTP POST request.
3. Update the existing user details into API with HTTP PUT request.
4. Delete the existing user details from API with HTTP DELETE request.

**Note:** All these operations are to be performed thorough UI in the browser.

```
import React, { useEffect, useState } from 'react';
import axios from 'axios';

function App() {
  const [users, setUsers] = useState([]);
  const [newUser, setNewUser] = useState({ name: '', email: '' });

  const apiURL = 'https://jsonplaceholder.typicode.com/users';

  // GET request: fetch all users
  const fetchUsers = () => {
    axios.get(apiURL)
      .then(res => setUsers(res.data))
      .catch(err => console.error('GET Error:', err));
  };

  useEffect(() => {
    fetchUsers();
  }, []);

  // POST request: add a new user
  const addUser = () => {
    axios.post(apiURL, newUser)
      .then(res => {
        setUsers([...users, res.data]);
        setNewUser({ name: '', email: '' });
      })
      .catch(err => console.error('POST Error:', err));
  };
}
```

```

// PUT request: update a user
const updateUser = (id) => {
  const updatedUser = { name: 'Updated Name', email: 'updated@example.com' };
  axios.put(`${apiURL}/${id}`, updatedUser)
    .then(res => {
      setUsers(users.map(user => user.id === id ? res.data : user));
    })
    .catch(err => console.error('PUT Error:', err));
};

// DELETE request: remove a user
const deleteUser = (id) => {
  axios.delete(`${apiURL}/${id}`)
    .then(() => {
      setUsers(users.filter(user => user.id !== id));
    })
    .catch(err => console.error('DELETE Error:', err));
};

return (
  <div style={{ padding: '20px' }}>
    <h2>Axios CRUD Example</h2>

    <h3>Add New User</h3>
    <input
      type="text"
      placeholder="Name"
      value={newUser.name}
      onChange={e => setNewUser({ ...newUser, name: e.target.value })}
    />
    <button onClick={addUser}>Add User</button>

    <h3>User List</h3>
    <ul>
      {users.slice(0, 11).map(user => ( // Limit to first 9 users for demo
        <li key={user.id}>
          {user.name} ({user.email}) &nbsp;
          <button onClick={() => updateUser(user.id)}>Edit</button> &nbsp;
          <button onClick={() => deleteUser(user.id)}>Delete</button>
        </li>
      ))}
    </ul>
  </div>
);
}

export default App;

```