ST.JOSEPH COLLEGE OF ENGINEERING

SRIPERUMBUDUR

IT3501-FULL STACK WEB DEVELOPMENT LABORATORY

NAME OF THE STUDENT :

DEPARTMENT :Information Technology

REGISTER NO :

YEAR / SEM : III/ V

ST.JOSEPH COLLEGE OF ENGINEERING
SRIPERUMBUDUR

UNIVERSITY REGISTER NUMBER: | | | | | | | | | | | | |

Certified that this is bonafide record of practical work done by Mr./Ms _____ of **INFORMATION TECHNOLOGY** Department in the **IT3501-FULL STACK WEB DEVELOPMENT LABORATORY** during the semester **V** year **III** and submitted for the University Practical Examination conducted on _____ in **ST.JOSEPH COLLEGE OF ENGINEERING SRIPERUMBUDUR**

LAB IN-CHARGE **HEAD OF THE DEPARTMENT**

INTERNAL EXAMINER **EXTERNAL EXAMINER**

CONTEXT

ST.JOSEPH COLLEGE OF ENGINEERING

SRIPERUMBUDUR

IT3511- FULL STACK WEB DEVELOPMENT LABORATORY

NAME OF THE STUDENT :

DEPARTMENT : INFORMATION TECHNOLOGY

REGISTER NO :

YEAR / SEM : III/ V

EX.NO :1 DATE :	**Develop a portfolio website for yourself which gives details aboutyourself for a potential recruiter**

Aim:

To Develop a portfolio website for yourself which gives details about yourselffor a potential recruiter.

Algorithm:

- Plan A Layout for Your Page
- Create A HTML Page for The Layout with All necessary Images and Styles
- Create A Style Sheet and add Styling to The Webpage
- Link The Stylesheet and HTML
- Save The File and Run it in The Browser.

PROGRAM:

```
<!DOCTYPE.html>
<html>
<title> welcome </title>
<body>
<h1 font= “times new roman" > <font color="blue">
 <center> St.JOSEPH COLLEGE OF ENGINEERING </font> </h1> </center>
<marquee> <h2 font = "calibri">
<font color = "red" > Best college..Goodinfrastructure.good
education..sucess in placing all the candidate ...100%placement  <br> <br> WANTED !!!!
PROFESSORS / ASSOCIATE PROFESSORS / ASSISTANT PROFESSORS apply
to sjce23@gmail.com  </font>  </h2>  </marquee>
<marquee direction = "right"> WELCOME ! </marquee>
<body bgcolor  = "#E6E6FA" >
<p> <h2> SJCEgoal is to: <q>Build a good future for the students who are all studying
here. </h2> </q> </p>
<blink> <h1> <font color = "red"> Admission open ..Hurry up </font> </h1> </blink>
<p> <Font color = "violet"> <h2> COURSES OFFERED </h2>  </font>  </p>
<ol> <font color="green">
<li> INFORMATION TECHNOLOGY </li>
<li> COMPUTER SCIENCE ENGINEERING </li>
<li> MECHANICAL ENGINEERING </li>
<li> ELECTRONICS & COMMUNICATION ENGINNERING </li>
<li> ARTIFICIAL INTELLIGENCE & DATA SCIENCE </li>
</font>
</OL>
<a href = "www.stjoseph.ac.in" >  www.sjce.ac.in </a>
<center>  <img src=" Frontview 2022.jpg" width = "800"  height = "400">  </center>
</body>
</html>
```

OUTPUT:

St.JOSEPH COLLEGE OF ENGINEERING

Best college..Good infrastructure.good education..sucess in placing all the candidate ...100%placement

WANTED !!!! PROFESSORS / ASSOCIATE PROFESSORS / ASSISTANT PROFESSORS apply to sjce34@gmail.com

WELCOME !

SJCE goal is to: "Build a good future for the students who are all studying here. "

Admission open ..Hurry up

COURSES OFFERED

1. INFORMATION TECHNOLOGY
2. COMPUTER SCIENCE ENGINEERING
3. MECHANICAL ENGINEERING
4. ELECTRONICS & COMMUNICATION ENGINNERING
5. ARTIFICIAL INTELLIGENCE & DATA SCIENCE

www.sjce.ac.in

RESULT :

Thus Portfolio Webpage to Develop a portfolio website which gives details for a potential recruiter Was Developed and Output Was Verified Successfully.

EX.NO :2 DATE :	**Create a web application to manage the TO-DO list of users, whereusers can login and manage their to-do items**

Aim:

To Create a web application to manage the TO-DO list of users, where users can login and manage their to-do items

Algorithm:

- Design A Layout
- Create A HTML Page with Input Tag
- Add CSS to it and Link it With the HTML File
- Read The Input Given in HTML With JavaScript DOM Model.
- Add The Input Text to the Specified Area.
- Link The JavaScript with <script></script> Tags

PROGRAM:

ToDo.html

```
<!DOCTYPE html>
<head>
   <title>Prioritize</title>
   <!-- CSS linking  -->
   <link rel="stylesheet" href="style.css">
</head>
<body>
   <div class="Container" id="Container">
      <p class="Heading" id="Heading">Prioritize </p>
      <div class="Add" id="Add">
         <input type="text" class="Textbox" id="Textbox" placeholder=" Add Task ">
         <button class="Btn" id="Btn" onclick="Clicked()">Add</button>
 <!-- onclick is used to Call the Javascript Function named Clicked() (Refer JS File) -->
      </div>
      <ol class="ToBeDone" id="ToBeDone"> </ol>
</div>
</body>
   <!-- Java Script Linking -->
   <script src="script.js"> </script>
</html>
```

style.css

```
.Container
{
height:100vh;
background-color: #274472;
text-align: center;
color: white;
font-family: sans-serif;
}

.Heading
{
    font-size: xx-large;
}

.Textbox
{
      width: 300px;
      height: 30px;
       border-radius: 10px;
       background-color: white;
       color: black;
        font-family: Arial;
        font-size: large;
}

.Btn
{

padding:20px;
background-color: #427497;
border-radius:10px;
color: white;
}

.ToBeDone
 {
   width: 400px;
   margin: auto;
   background-color: #427497;
   border-radius:10px;
   padding:15px 0px 15px30px;
   display: none;
   align- content: center;
   flex- direction:column;
   text- align:left;
   font-size: larger;
}
```

script.js

```
let  Btn = document.getElementById('Btn');
let ToDo = document.getElementById('ToBeDone');
let Item = document.getElementById('Textbox');
 function Clicked()
{
var List = document.createElement('li');
List.innerText=Item.value;ToDo.appendChild(List);
Item.value= ""
ToDo.style.display="flex";
}
```

OUTPUT:


Prioritize
Add Task
Add
1. Buying Medicines
2. Shopping
3. Assignment

RESULT :

Thus the web application to manage the TO-DO list of users, where users can login and manage their to-do item Was Developed and Output Was Verified Successfully.

EX.NO :3 DATE :	**Create a simple micro blogging application (like twitter) that allowspeople to post their content which can be viewed by people who follow them.**

Aim:

To Create a simple micro blogging application (like twitter) that allows people to post their content which can be viewed by people who follow them**.**

Algorithm:

- Design the Layout
- Create A HTML Page Where The User Can Add their Posts With Caption
- Add CSS to it and Link it
- Read the Posts and the Captions Given by The User in HTML With JavaScript.
- Publish Them in the Blog Page.

PROGRAM:

```
<!DOCTYPE html>
<html>
<head>
<title>Micro Blogging App</title>
<link rel="stylesheet" type="text/css" href="style.css">
</head>
<body>
<div class="container">
<h1>Micro Blogging App</h1><br/><br/>
<div id="posts-container"></div>
<form id="post-form">
<input type="text" id="username-input" placeholder="Your Username"><br/>
<textarea id="post-input" placeholder="Write your post..."></textarea>
<button type="submit">Post</button>
</form>
</div>
<script src="script.js"></script>
```

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

Style.css

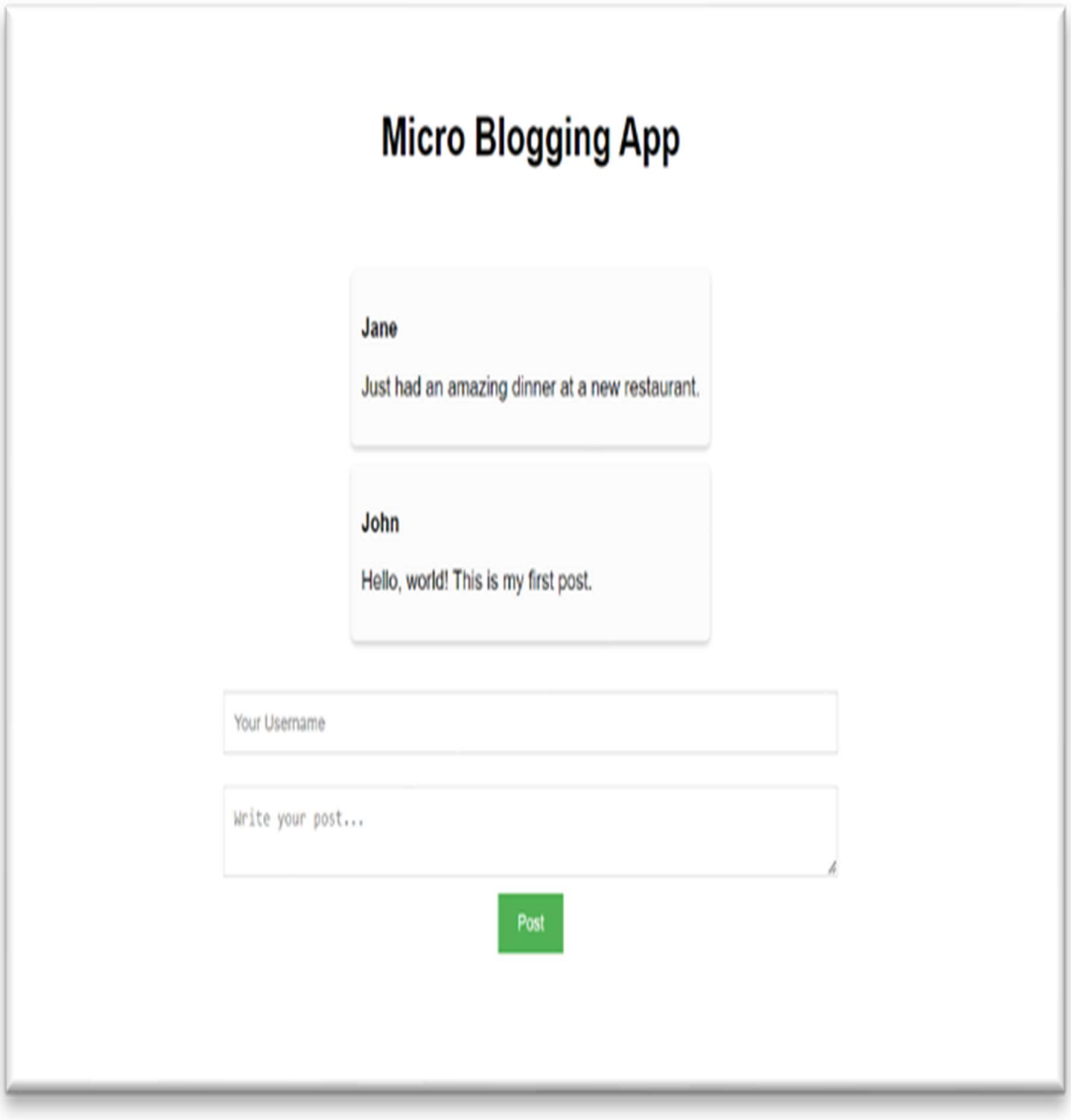
```
.container
{
max-width: 600px;
margin: 0 auto;
padding: 20px;
background-color: aliceblue;
}

Body
{
background-color: #397d97;
}

h1
{
text-align: center;
font-size: 24px;
margin-bottom: 20px;
}

form input, form textarea
{
display: block;
width: 80%;
padding: 10px;
margin: auto;
margin-bottom: 10px;
border: 1px solid #ccc;
border-radius: 4px;
background-color: #ccc;
}

form button[type="submit"]
```

```
{
display: block;
width: 40%;
padding: 10px;
background-color: #4caf50;
color: #fff;
border: none;
border-radius: 4px;
cursor: pointer;
margin: auto;
}

.posts-container .post
{
border: 1px solid #ccc;
padding: 10px;
margin-bottom: 10px;
background-color: #f9f9f9;
background-color: #ccc;
}

.posts-container .username
{
font-weight: bold;
margin-top: 5px;
}
```

Script.js

```
 const posts = [
{ username: "John", content: "Hello, world! This is my first post." },
{ username: "Jane", content: "Just had an amazing dinner at a new restaurant." },];
function renderPosts() {
const postsContainer = document.getElementById('posts-container');
postsContainer.innerHTML = '';
posts.forEach(post => {
const postElement = document.createElement('div');
postElement.classList.add('post');
const usernameElement = document.createElement('p');
usernameElement.classList.add('username');
usernameElement.innerText = post.username;
const contentElement = document.createElement('p');
contentElement.classList.add('content');
contentElement.innerText = post.content;
postElement.appendChild(usernameElement);
postElement.appendChild(contentElement);
postsContainer.prepend(postElement);
}); }
function handleFormSubmit(event) {
event.preventDefault();
const usernameInput = document.getElementById('username-input');
const postInput = document.getElementById('post-input');
 const username =usernameInput.value.trim();
const postContent = postInput.value.trim();
if (username !== '' && postContent !== '') {
const newPost = { username: username, content: postContent };
posts.unshift(newPost);
renderPosts();
usernameInput.value = '';
postInput.value = '';
} }
const postForm = document.getElementById('post-form');
postForm.addEventListener('submit', handleFormSubmit);
renderPosts();
```

OUTPUT :


Micro Blogging App
Jane
Just had an amazing dinner at a new restaurant.
John
Hello, world! This is my first post.
Your Username
Write your post...
Post

RESULT :

Thus the **web application to** Create a simple micro blogging application (like twitter) that allows people to post their content which can be viewed by people who follow them Was Developed and Output Was Verified Successfully.

EX.NO :4 DATE :	**Create a food delivery website where users can order food from aparticular restaurant listed in the website**

Aim:

To Create a food delivery website where users can order food from a particular restaurant listed in the website.

Algorithm:

- Design A Layout for The Page
- Develop A HTML Page Where a User Can Select Their Foood Menu and Their Favourite Restaurant as a Dropdown.
- Add Styling to it and Link it with HTML
- Use JavaScript to Pop Up a Confirmation Message and to Receive The Order.
- Save The File and Run in Your Local Machine.

PROGRAM:

Input.html

```
<!DOCTYPE html>
<html>
<head>
<title>Hotel Order</title>
<link rel="stylesheet" href="stylesheets.css">
</head>
<body>
<div class="container">
<h1>Hotel Order</h1>
<form id="orderForm">
<div class="form-group">
<label for="hotel">Select a hotel:</label>
<select id="hotel" name="hotel">
<option value="hotel1">Ram Hotel </option>
<option value="hotel2">Ganesh Hotel</option>
<option value="hotel3">A2D</option>
```

```
</select>
</div>
<div class="form-group">
<label for="food">Select a food item:</label>
<select id="food" name="food">
<option value="Burger">Burger </option>
<option value="food2">Pizza</option>
<option value="food3">French Fries</option>
</select>
</div>
<div class="button-container">
<button type="submit" id="placeOrderButton">Place Order</button>
</div>
</form>
</div>
<script src="script.js"></script>
</body>
</html>
```

Style.css

```
.container
{
max-width: 600px;
margin: 0 auto;
padding: 20px;
background-color: #7ddaf1  ;
}

h1
{
text-align: center;
font-size: 24px;
margin-bottom: 20px;
}

.form-group
{
margin-bottom: 15px;
}

label
{
display: block;
font-weight: bold;
}

select, button[type="submit"]
{
width: 100%;
padding: 8px;
border: 1px solid #ccc;
border-radius: 4px;
}
```

```
.button-container
{
text-align: center;
}

button[type="submit"]
{
padding: 10px 20px;
background-color: #4caf50;
color: #fff;
border: none;
cursor: pointer;
}

button[type="submit"]:hover
{
background-color: #45a049;
}
```

Script.js

```
document.getElementById("orderForm").addEventListener("submit", function(event)
{
event.preventDefault();
alert("Order placed successfully!");
});
```

OUTPUT :


Hotel Order
Select a hotel:
A2D
Select a food item:
French Fries
Place Order

RESULT :

Thus, the **web application to** Create a food delivery website where users can order food from a particular restaurant listed in the website Was Developed and Output Was Verified Successfully

EX.NO :5 DATE :	**Develop a classifieds web application to buy and sell used products.**

Aim:

To Develop a classifieds web application to buy and sell used products.

Algorithm:

- Design a Layout
- Create a HTML Page to Get the Product Details, Description as Input
- Add Appealing Styling to it
- Link The Stylesheet with HTML Page
- Add JavaScript to read The Input From the User and Post it in Blog Page.

PROGRAM:

Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Classifieds Web App
</title>
<link rel="stylesheet" href="style.css">
</head>
<body>
<header>
<h1>Buy Sell Web App</h1>
</header>
<main>
<section id="buy-section">
<h2>Buy</h2>
<button id="buy-button">Buy Items</button>
<ul id="buy-list">
</ul>
```

```
</section>
<section id="sell-section">
<h2>Sell</h2>
<form id="sell-form">
<label for="sell-title">Title</label>
<input type="text" id="sell-title" required>
<label for="sell-description">Description</label>
<textarea id="sell-description" required>
</textarea>
<label for="sell-price">Price</label>
<input type="number" id="sell-price" required>
<button type="submit">Sell Item</button>
</form>
</section>
</main>
<script src="script.js">
</script>
</body>
</html>
```

Style.css

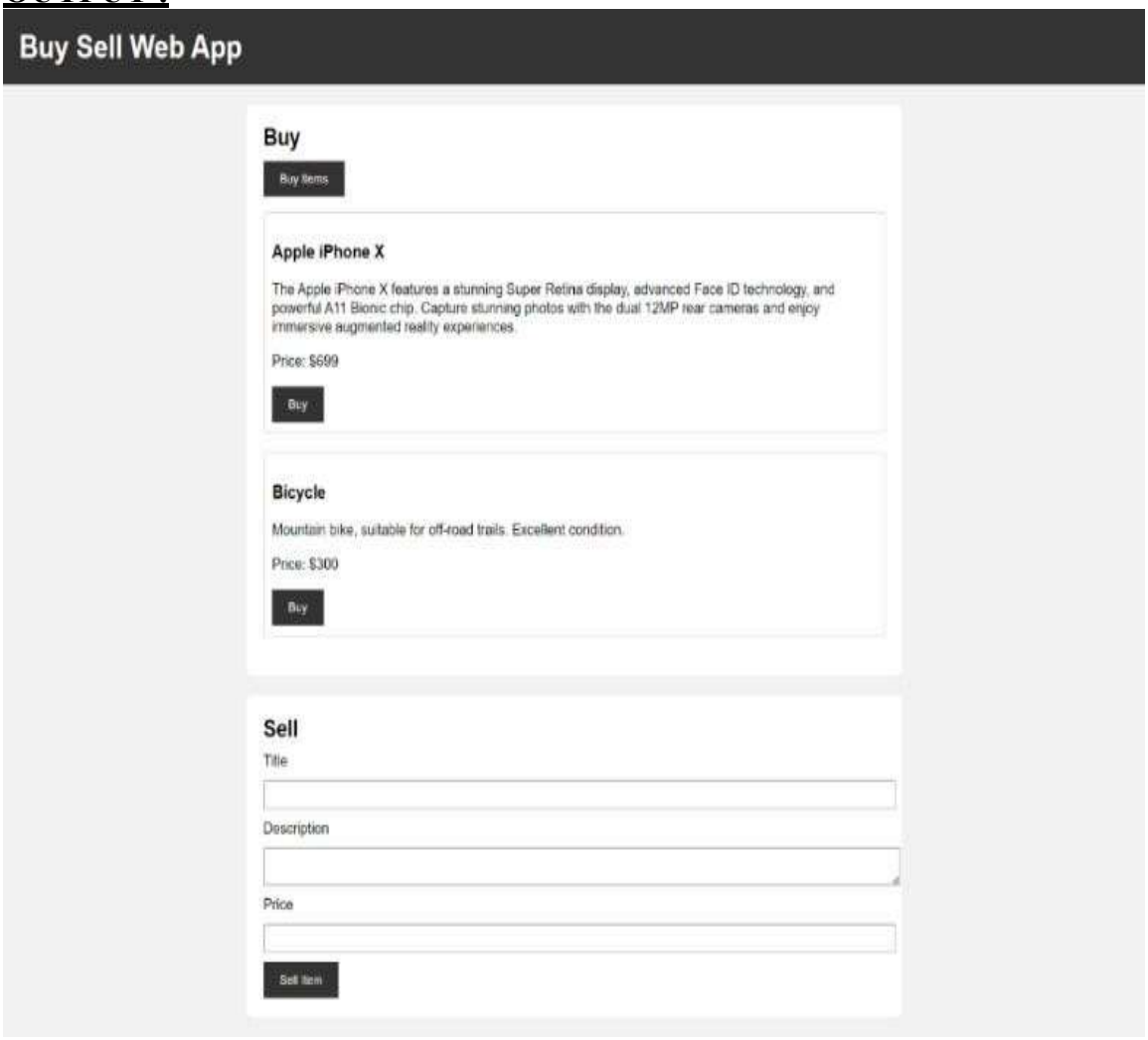
```
body
{
font-family: Arial, sans-serif;
margin: 0;
padding: 0;
}

header
{
background-color: #f5f5f5;
padding: 20px;
text-align: center;
}

main
{
max-width: 800px;
margin: 20px auto;
padding: 20px;
}

h1
{
font-size: 24px;
margin: 0;
}

section
{
margin-bottom: 20px;
}

button
{
padding: 10px 20px;
```

```
background-color: #4caf50;
color: #fff;
border: none;
border-radius: 4px;
cursor: pointer;
}

ul
{
list-style: none;
padding: 0;
}

li
{
margin-bottom: 10px;
}
 label
{
font-weight: bold;
}

input, textarea
{
width: 100%;
padding: 8px;
border: 1px solid #ccc;
border-radius: 4px;
resize: vertical;
}

button[type="submit"]
{
background-color: #45a049;
}
```

Script.js

```
const itemsForSale = [];
function handleBuyButtonClick() {
const buyList = document.getElementById('buy-list');
buyList.innerHTML =  '';
itemsForSale.forEach((item) => {
const listItem = document.createElement('li');
const titleElement = document.createElement('h3');
titleElement.textContent = item.title;
listItem.appendChild(titleElement);
const descriptionElement = document.createElement('p');
descriptionElement.textContent = item.description;
listItem.appendChild(descriptionElement);
const priceElement = document.createElement('p');
priceElement.textContent = `Price: $${item.price}`;
listItem.appendChild(priceElement);
const buyButton = document.createElement('button');
buyButton.textContent = 'Buy';
buyButton.addEventListener('click', () => {
handleBuyButtonClicked(item);
});
listItem.appendChild(buyButton);
buyList.appendChild(listItem);
});
}
function handleSellFormSubmit(event) {
event.preventDefault();
const sellTitle = document.getElementById('sell-title').value;
const sellDescription = document.getElementById('sell-description').value;
const sellPrice = document.getElementById('sell-price').value;
const item = {
title: sellTitle,
description: sellDescription,
price: sellPrice};
itemsForSale.push(item);
document.getElementById('sell-title').value = '';
document.getElementById('sell-description').value = '';
document.getElementById('sell-price').value = '';
handleBuyButtonClick();}
function handleBuyButtonClicked(item) {
alert(`Thank you for buying the item: ${item.title}`);}
document.getElementById('buy-button').addEventListener('click', handleBuyButtonClick);
document.getElementById('sell-form').addEventListener('submit', handleSellFormSubmit);
```

OUTPUT :


Buy Sell Web App
Buy
Buy Items
Apple iPhone X
The Apple iPhone X features a stunning Super Retina display, advanced Face ID technology, and powerful A11 Bionic chip. Capture stunning photos with the dual 12MP rear cameras and enjoy immersive augmented reality experiences.
Price: $699
Buy
Bicycle
Mountain bike, suitable for off-road trails. Excellent condition.
Price: $300
Buy
Sell
Title
Description
Price
Sell Item

RESULT :

Thus the **web application to** Develop a classifieds web application to buy and sell used products Was Developed and Output Was Verified Successfully

EX.NO :6 DATE :	**Develop a leave management system for an organization where userscan apply different types of leaves such as casual leave and medical leave. They also can view the available number of days.**

Aim:

To Develop a leave management system for an organization where users can apply different types of leaves such as casual leave and medical leave. They also can view the available number of days.

Algorithm:

- Design a Template
- Create A HTML page To Get the No. of Leaves Taken By the Employee.
- Add CSS To It and Link It With The HTML Page.
- Use JavaScript to Make Sure That Every Leave Counts
- Link the JavaScript the HTML File.

PROGRAM:

Index.html

```
<!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">
<link rel="stylesheet" href="style.css">
<title>Leave Form</title>
<script>
function showAlert()
{
let leaves = document.getElementById("leaves").value;
let total_no_leave = 6;
let remaining_leaves = total_no_leave-leaves
alert("Form submitted\nRemaining Leave : "+remaining_leaves);
}
</script>
```

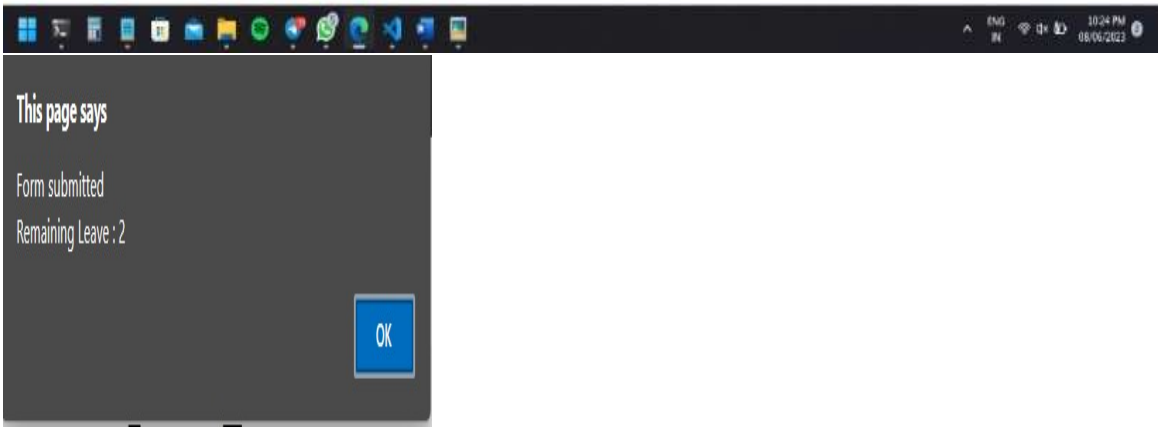
```
</head>
<body>
<div class="container">
<div class="form">
<h1>Leave Form</h1>
<form action="" onsubmit="showAlert()">
<input type="text" name="name" id="name" placeholder="Name">
<br> <input type="number" name="leaves" id="leaves" placeholder="Number of leaves">
<br>  <input type="text" name="reason" id="reason" placeholder="Reason">
<br> <input type="text" name="CorM" id="CorM" placeholder="Casual or Medical
Leave">
<br> <label for="">Attach proof:</label>
<input type="file" name="proof" id="proof">
<br> <button type="submit">Submit</button>
</form>
</div>
 </div>
</body>
</html>
```

Style.css

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

.container
{
display: flex;
justify-content: center;
align-items: center;
height: 100vh;
}

.form
{
max-width: 400px;
padding: 20px;
border: 1px solid #ccc;
border-radius: 4px;
background-color: #f5f5f5;
}

h1
{
font-size: 24px;
text-align: center;
margin: 0;
}
form
{
margin-top: 20px;
}
input, textarea
{
margin-bottom: 10px;
padding: 8px;
border: 1px solid #ccc;
border-radius: 4px;
}
button[type="submit"]
{
padding: 10px 20px;
background-color: #4caf50;
color: #fff;
border: none;
border-radius: 4px;
cursor: pointer;
}
```

OUTPUT :


Leave Form
Shyam
4
dengue fever
Medical Leave
Attach proof:
Choose File
yarnrc
Submit


This page says
Form submitted
Remaining Leave : 2
OK

RESULT :

Thus the **web application to** Develop a leave management system for an organization Was Developed and Output Was Verified Successfully

EX.NO :7 DATE :	**Develop a simple dashboard for project management where the statuses of various tasks are available. New tasks can be added andthe status of existing tasks can be changed among Pending, InProgress or Completed.**

Aim:

To Develop a simple dashboard for project management where the statuses of various tasks are available. New tasks can be added and the status of existing tasks can be changed among Pending, InProgress or Completed.

Algorithm:

- Design A Template
- Create A HTML Page to Show The Number Of Tasks and Statuses of all The Tasks
- Add Styles and Link it With HTML
- Use JavaScript To Change The Project Status Dynamically.
- Save The File and Run The File in Local Machine.

PROGRAM:

Index.html

```
<!DOCTYPE html>
<html>
<head>
<title>Project Management Dashboard</title>
<link rel="stylesheet" href="style.css">
</head>
<body>
<h1>Project Management Dashboard</h1>
<table>
<thead>
<tr>
<th>Task</th>
<th>Status</th>
<th>Actions</th>
</tr>
</thead>
<tbody id="taskList">
```

```
</tbody>
</table>
<h2>Add New Task</h2>
<input type="text" id="taskInput" placeholder="Enter task name">
<button onclick="addTask()">Add Task</button>
<script>
let tasks = [];
function addTask()
{
const taskInput = document.getElementById('taskInput');
const taskName = taskInput.value.trim();
if (taskName !== '')
 {
const newTask =
{
name: taskName,
status: 'Pending'
};
tasks.push(newTask);
displayTasks();
taskInput.value = '';
}
}
function updateStatus(index, newStatus)
{
tasks[index].status = newStatus;
displayTasks();
}
function displayTasks()
{
const taskList = document.getElementById('taskList');
taskList.innerHTML = '';
for (let i = 0; i < tasks.length; i++)
{
const task = tasks[i];
const row = document.createElement('tr');
const nameCell = document.createElement('td');
```

```
nameCell.textContent = task.name;
row.appendChild(nameCell);
const statusCell = document.createElement('td');
statusCell.textContent = task.status;
row.appendChild(statusCell);
const actionsCell = document.createElement('td');
const pendingBtn = document.createElement('button');
pendingBtn.textContent = 'Pending';
pendingBtn.className = 'btn pending';
pendingBtn.onclick = function()
{
updateStatus(i, 'Pending');
};
actionsCell.appendChild(pendingBtn);
const inProgressBtn = document.createElement('button');
inProgressBtn.textContent = 'In Progress';
inProgressBtn.className = 'btn in-progress';
inProgressBtn.onclick = function()
{
updateStatus(i, 'In Progress');
};
actionsCell.appendChild(inProgressBtn);
const completedBtn = document.createElement('button');
completedBtn.textContent = 'Completed';
completedBtn.className = 'btn completed';
completedBtn.onclick = function()
{
updateStatus(i, 'Completed');
};
actionsCell.appendChild(completedBtn);
row.appendChild(actionsCell);
taskList.appendChild(row);
}
}
</script>
</body>
</html>
```

Style.css

```
body
{
font-family: Arial, sans-serif;
margin: 0;
padding: 20px;
}

h1
{
text-align: center;
}

table
{
width: 100%;
border-collapse: collapse;
margin-bottom: 20px;
}

th, td
{
padding: 8px;
text-align: left;
}

th
{
background-color: #f5f5f5;
}

td
{
border-bottom: 1px solid #ccc;
```

```
}

input[type="text"]
{
width: 100%;
padding: 8px;
margin-bottom: 10px;
border: 1px solid #ccc;
border-radius: 4px;
}

button
{
padding: 10px 20px;
background-color: #4caf50;
color: #fff;
border: none;
border-radius: 4px;
cursor: pointer;
}

.btn
{
margin-right: 5px;
}
```

OUTPUT :


Project Management Dashboard
Task
Status
Actions
Mini Project
Completed
Pending
In Progress
Completed
Major Project
In Progress
Pending
In Progress
Completed
Add New Task
Enter task name
Add Task

RESULT :

Thus the **web application to Develops a** simple dashboard for project management where the statuses of various tasks are available Was Developed and Output Was Verified Successfully.

EX.NO :8 DATE :	**Develop an online survey application where a collection of questionsis available and users are asked to answer any random 5 questions**

Aim:

To Develop an online survey application where a collection of questions is available and users are asked to answer any random 5 questions

Algorithm:

- Create A HTML Page to Conduct a Survey
- Make Sure That the Page Has at least 5 Random Questions
- Add Styes and Link it With the HTML Page
- Use JavaScript to Record The Responses and To Do Analysis

PROGRAM:

Index.html

```
<!DOCTYPE html>
<html>
<head>
<title>Online Survey</title>
<link rel="stylesheet" href="styles.css">
</head>
<body>
<div class="container">
<h1>Online Survey</h1>
<form id="surveyForm">
<div id="questionContainer"></div>
<div class="button-container">
<button type="submit">Submit</button>
</div>
</form>
</div>
<script src="script.js"></script>
</body>
</html>
```

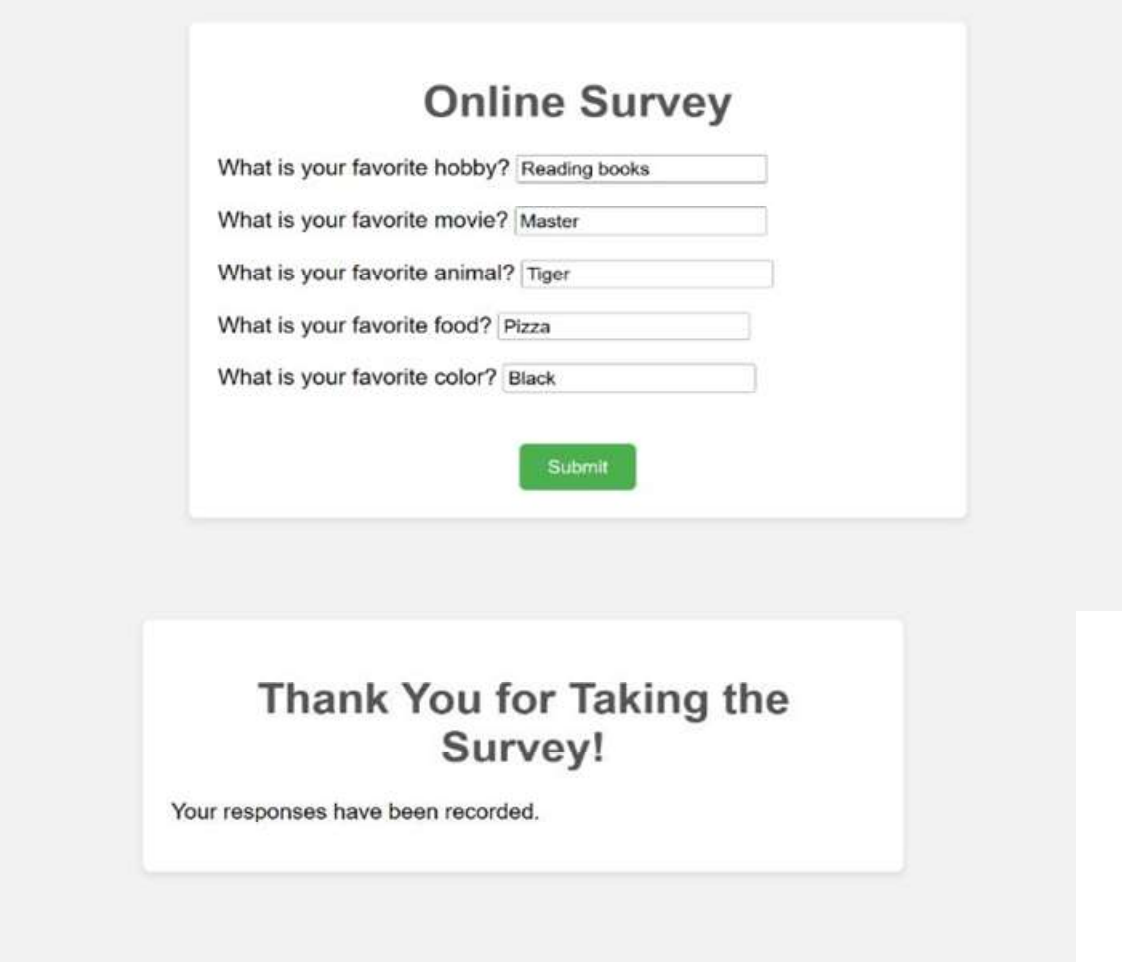
Style.css

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

.container
{
max-width: 800px;
margin: 20px auto;
padding: 20px;
text-align: center;
}

h1
{
font-size: 24px;
}

.question
{
margin-bottom: 10px;
}

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

input[type="text"]
{
width: 100%;
padding: 8px;
border: 1px solid #ccc;
border-radius: 4px;
}

button[type="submit"]
{
padding: 10px 20px;
background-color: #4caf50;
color: #fff;
border: none;
border-radius: 4px;
cursor: pointer;
}
```

Script.js

```
const questions = [
"What is your favorite color?",
"What is your favorite animal?",
"What is your favorite food?",
"What is your favorite movie?",
"What is your favorite hobby?"
];
function getRandomQuestions() {
const randomQuestions = [];
const usedIndices = [];
while (randomQuestions.length < 5) {
const randomIndex = Math.floor(Math.random() * questions.length);
if (!usedIndices.includes(randomIndex)) {
randomQuestions.push(questions[randomIndex]);
usedIndices.push(randomIndex);
}
}
return randomQuestions;
}
function createQuestionElement(question) {
const questionElement = document.createElement("div");
questionElement.classList.add("question");
questionElement.innerHTML = `
<label>${question}</label>
<input type="text" name="answer" required><br/><br/>`;
return questionElement;
}
function displayQuestions() {
const questionContainer = document.getElementById("questionContainer");
const randomQuestions = getRandomQuestions();
randomQuestions.forEach(question => {
const questionElement = createQuestionElement(question);
questionContainer.appendChild(questionElement);
});
}
function submitSurvey(event) {
event.preventDefault();
 const form = event.target;
const answers = Array.from(form.elements["answer"]).map(input => input.value);
const container = document.querySelector(".container");
container.innerHTML = `
<h1>Thank You for Taking the Survey!</h1>
<p>Your responses have been recorded.</p>
`;
}
document.addEventListener("DOMContentLoaded", displayQuestions);
document.getElementById("surveyForm").addEventListener("submit", submitSurvey);
```

OUTPUT :


Online Survey
What is your favorite hobby? Reading books
What is your favorite movie? Master
What is your favorite animal? Tiger
What is your favorite food? Pizza
What is your favorite color? Black
Submit
Thank You for Taking the Survey!
Your responses have been recorded.

RESULT :

Thus the **web application to** Develop an online survey application where a collection of questions is available and users are asked to answer Was Developed and Output Was Verified Successfully.