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INSTITUTE OF ENGINEERING AND TECHNOLOGY

MELVISHARAM, RANIPET-632509



DEPARTMENT OF INFORMATION TECHNOLOGY B.TECH-INFORMATION TECHNOLOGY

IT3511-FULL STACK WEB DEVELOPMENT LAB

ACADEMIC YEAR (2023-2024)

NAME	:	
REGNO	:	

YEAR/SEM: III / V

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INSTITUTE OF ENGINEERING AND TECHNOLOGY

257/1,Bangalore-Chennai Highway,Melvisharam-632509

	BONAFIDE CERTIFICATE			
,				
Name	:			
Course	: B.TECH -IT			
Year / Semest	ter: III /V			
Register No				
Certified that this is a bonafide record of work done by the above student in the IT3511- FULL STACK WEB DEVELOPMENT Laboratory during the period 2023 to 2024.				
Staff-in-Charge Head of the Department				
Submitted for the Practical examination held onat Global Institute of Engineering and Technology, Melvisharam, Ranipet-632509.				
Internal Exar	niner Extern	al Examiner		

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Exp. No	Date	Name of the Experiment	Page No	Marks	Sign

IT3511 - FULL STACK WEB DEVELOPMENT LABORATORY

LIST OF EXPERIMENTS:

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

TOTAL: 60 PERIODS

- 2. Create a web application to manage the TO-DO list of users, where users can login and manage their to-do items.
- 3. Create a simple micro blogging application (like twitter) that allows people to post their content which can be viewed by people who follow them.
- 4. Create a food delivery website where users can order food from a particular restaurant listed in the website.
- 5. Develop a classifieds web application to buy and sell used products.
- 6. 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 using react
- 7. 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, In Progress or Completed.
- 8. Develop an online survey application where a collection of questions is available and users are asked to answer any random 5 questions.

Ex No:1	Develop a portfolio website for yourself which gives details about yourself for
DATE:	a potential recruiter.

To develop a portfolio website using ReactJS.

ALGORITHM:

Step 1: Setup

• Create a new React app using create-react-app.

Step 2: Component Creation

- Inside the src folder, create a components directory.
- For each section of our portfolio (Header, About, Projects, Contact), create a separate .js file inside the components directory.

Step 3: Component Content

- Define the content for each component using JSX.
- Add details about skills, experiences, projects, and contact information.

Step 4: Styling

- Create corresponding .css files for each component or use a CSS-in-JS approach.
- Apply styling to achieve the desired visual appearance for each section.

Step 5: Integrate Components

- In the App.js file, import the components you've created.
- Render each component within the return statement of the App component.

Step 6: Testing

• Run the development server (npm start) to see our portfolio website in the browser.

PROGRAM:

Header.js

export default Header;

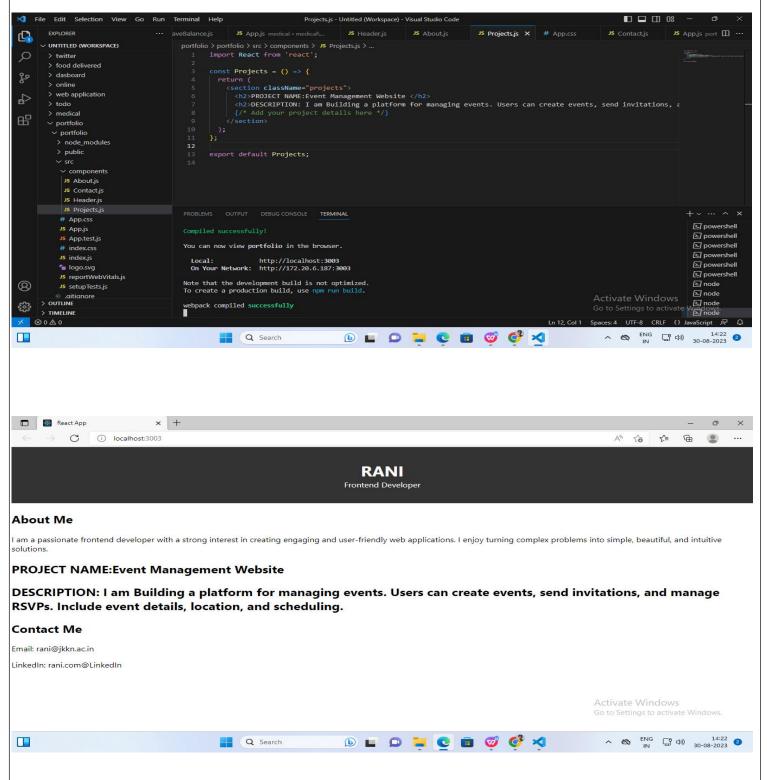
About.js

Projects.js

Contact.js:

```
</section>
        );
       };
       export default Contact;
App.js:
       import React from 'react';
       import './App.css';
       import Header from './components/Header';
       import About from './components/About';
       import Projects from './components/Projects';
       import Contact from './components/Contact';
       function App() {
         return (
          <div className="app">
           <Header/>
           <About />
           <Projects />
           <Contact />
          </div>
         );
       export default App;
App.css:
        .header {
         background-color: #333;
         color: #fff;
         text-align: center;
        padding: 2rem;
        .header h1 {
        margin: 0;
       .header p {
         margin: 0;
```

OUTPUT:



RESULT:

Thus, the development of a portfolio website using ReactJS was successfully done and verified.

Ex No: 2	Create a web application to manage the TO-DO list of users, where users can
DATE:	login and manage their to-do items

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

ALGORITHM:

Step 1: Set Up

- Create a new React app with necessary components.
- Set up states to track login status, to-do list, and new to-do input.

Step 2:Login Component (Login.js)

- Display a form with username and password fields.
- Manage user input using state.

Step 3:TodoItem Component (TodoItem.js)

• Display an individual to-do item.

Step 4:TodoList Component (TodoList.js)

- Show a list of to-do items.
- Manage the list using state.
- Add new items to the list.

Step 5:App Component (App.js)

- Track the logged-in state using state.
- Show either login or to-do list based on the state.
- Pass the login callback to the Login component.

Step 6: Testing and Running:

• Start the app to see the login screen.

PROGRAM:

Login.js:

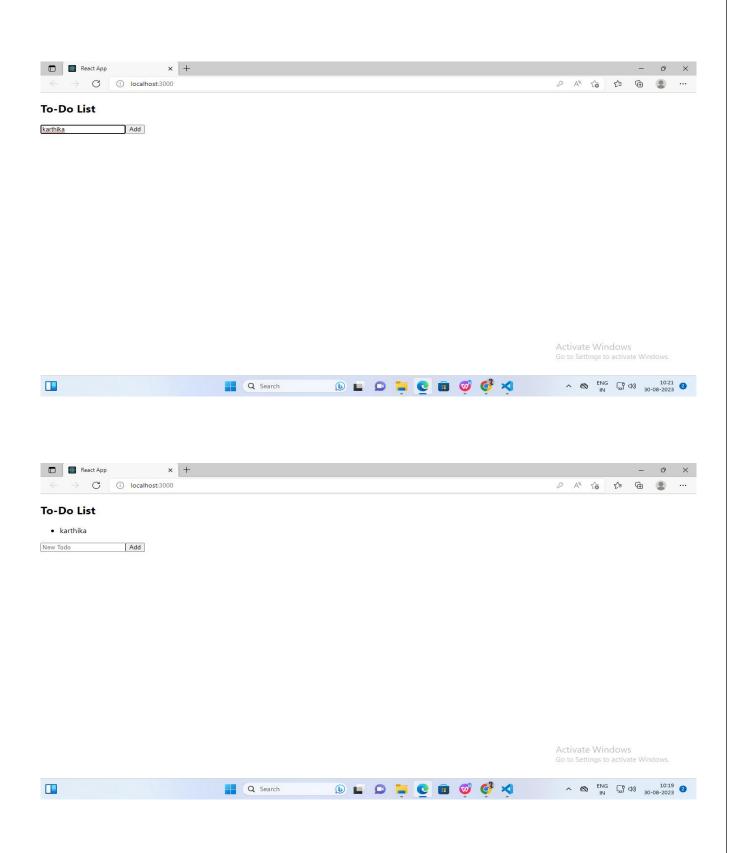
```
import React, { useState } from 'react';

const Login = ({ onLogin }) => {
  const [username, setUsername] = useState(");
  const [password, setPassword] = useState(");
  const handleLogin = () => {
  // Simulated login logic
```

```
if (username === 'user' && password === 'password') {
       onLogin(true);
       } else {
       alert('Invalid credentials');
       };
       return (
       <div>
       <h2>Login</h2>
       <input
       type="text"
       placeholder="Username"
       value={username}
       onChange={(e) => setUsername(e.target.value)}
       />
       <input
       type="password"
       placeholder="Password"
       value={password}
       onChange={(e) => setPassword(e.target.value)}
       <button onClick={handleLogin}>Login</button>
       </div>
       );
       };
       export default Login;
TodoItem.js:
       import React from 'react';
       const TodoItem = ({ text }) \Rightarrow {
        return {text};
       export default TodoItem;
TodoList.js:
       import React, { useState } from 'react';
       import TodoItem from './TodoItem';
       const TodoList = () \Rightarrow \{
        const [todos, setTodos] = useState([]);
        const [newTodo, setNewTodo] = useState(");
        const addTodo = () => {
          if (newTodo.trim() !== ") {
           setTodos([...todos, newTodo]);
           setNewTodo(");
```

```
};
 return (
  <div>
   <h2>To-Do List</h2>
   <ul>
    \{todos.map((todo, index) => (
     <TodoItem key={index} text={todo} />
    ))}
   <input
    type="text"
    placeholder="New Todo"
    value={newTodo}
    onChange={(e) => setNewTodo(e.target.value)}
   <button onClick={addTodo}>Add</button>
  </div>
);
};
export default TodoList;
```

Output: _ _ _ _ O × React App × + \leftarrow \rightarrow C \bigcirc localhost:3000 Login karthika ... Login Activate Windows Go to Settings to activate Windows. 🔡 Q Search 🕟 🔲 🖸 📴 💼 🦁 🗳 ^ S ENG (10:17 (2) (1 React App × + - o × \leftarrow \rightarrow \odot \bigcirc localhost:3000 A 6 6 @ ... localhost:3000 says Login Invalid credentials karthika ... Login Activate Windows Q Search 9



RESULT:

Thus, the execution of create a web application to manage the TO-DO list of users, where users can login and manage their to-do items using React was successfully create and executed.

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

To Create a Simple Micro Blogging Application Using React.

ALGORITHM:

Step 1: Setup

• Create a new React app using create-react-app.

Step 2: Component Creation

- Inside the src folder, create a components directory.
- For each section of our micro blogging (Header, Usercard, Postcard, Dashboard), create a separate .js file inside the components directory.

Step 3: Component Content

- Define the content for each component using JSX.
- Add details about card information.

Step 4: Styling

- Create corresponding .css files for each component or use a CSS-in-JS approach.
- Apply styling to achieve the desired visual appearance for each section.

Step 5: Integrate Components

- In the App.js file, import the components you've created.
- Render each component within the return statement of the App component.

Step 6: Testing

• Run the development server (npm start) to see micro blogging application website in the browser.

PROGRAM:

Header.js

UserCard.js

```
import React, { useState } from 'react';
const UserCard = ({ user, onFollowToggle }) => {
 const [isFollowing, setIsFollowing] = useState(false);
const handleFollowToggle = () => {
  setIsFollowing(!isFollowing);
  onFollowToggle(user.id, !isFollowing);
 };
return (
  <div className="user-card">
   <h3>{user.name}</h3>
   {user.bio}
   <button onClick={handleFollowToggle}>
    {isFollowing? 'Unfollow': 'Follow'}
   </button>
  </div>
);
};
export default UserCard;
```

PostCard.js

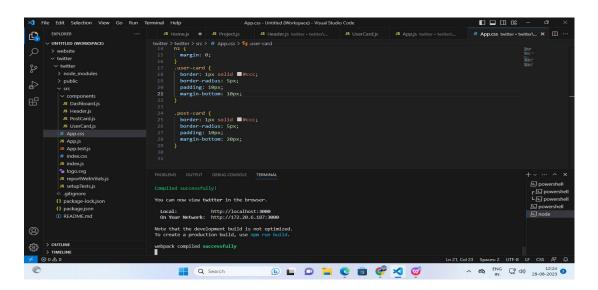
Dashboard.js

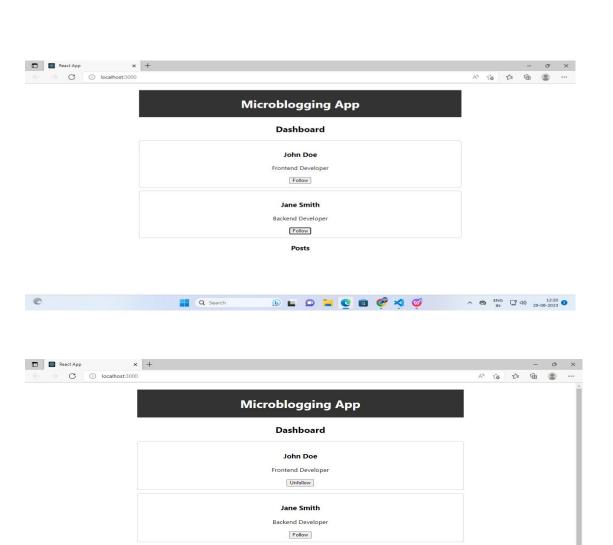
```
import React, { useState } from 'react';
import UserCard from './UserCard';
import PostCard from './PostCard';
const Dashboard = () => {
 // Static data for users and posts
 const [users] = useState([
  { id: 1, name: 'John Doe', bio: 'Frontend Developer' },
  { id: 2, name: 'Jane Smith', bio: 'Backend Developer' },
 1);
 const [posts] = useState([
  { id: 1, title: 'My First Post', content: 'Hello, world!', author: 'John Doe' },
  { id: 2, title: 'Exciting News', content: 'Just launched my new website!', author: 'Jane Smith' },
 ]);
 const [following, setFollowing] = useState([]);
 const handleFollowToggle = (userId, isFollowing) => {
  if (isFollowing) {
   setFollowing([...following, userId]);
   setFollowing(following.filter((id) => id !== userId));
 };
 return (
  <div className="dashboard">
   <h2>Dashboard</h2>
   <div className="user-list">
     \{users.map((user) => (
      <UserCard
       key={user.id}
       user={user}
       onFollowToggle={handleFollowToggle}
      />
    ))}
   </div>
```

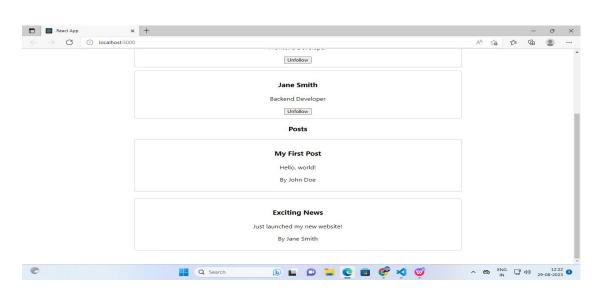
```
<h3>Posts</h3>
              <div className="post-list">
               {posts
                .filter((post) => following.includes(users.find((user) => user.name === post.author).id))
                .map((post) => (
                 <PostCard key={post.id} post={post} />
                ))}
              </div>
            </div>
           );
          };
          export default Dashboard;
App.js
          import React from 'react';
          import './App.css';
          import Header from './components/Header';
          import Dashboard from './components/Dashboard';
          const App = () \Rightarrow \{
           return (
            <div className="app">
              <Header/>
              <Dashboard />
            </div>
           );
          };
          export default App;
App.css
          .app {
           text-align: center;
           max-width: 800px;
           margin: 0 auto;
           padding: 20px;
```

```
header {
 background-color: #333;
 color: #fff;
padding: 20px;
h1 {
margin: 0;
.user-card {
border: 1px solid #ccc;
border-radius: 5px;
padding: 10px;
 margin-bottom: 10px;
.post-card {
 border: 1px solid #ccc;
border-radius: 5px;
 padding: 10px;
 margin-bottom: 20px;
```

OUTPUT:







Posts

My First Post

Hello, world!

Q Search

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0

RESULT:	
	Thus, the execution of create a simple micro blogging application using React was successfully create and
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	executed.
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Ex No: 4	Create a food delivery website where users can order food from a particular
DATE:	restaurant listed in the website.

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

ALGORITHM:

Step 1: Setup

• Create a new React app using create-react-app.

Step 2: Component Creation

- Inside the src folder, create a components directory.
- For each section of our food delivery website (ResturantList, menu, card), create a separate .js file inside the components directory.

Step 3: Component Content

- Define the content for each component using JSX.
- Add details about card information.

Step 4: Styling

- Create corresponding .css files for each component or use a CSS-in-JS approach.
- Apply styling to achieve the desired visual appearance for each section.

Step 5: Integrate Components

- In the App. is file, import the components you've created.
- Render each component within the return statement of the App component.

Step 6: Testing

• Run the development server (npm start) to see our food delivery website in the browser.

PROGRAM:

RestaurantList.js:

```
import React, { useState } from 'react';
import Menu from './Menu';

const RestaurantList = () => {
  const restaurants = [
      { id: 1, name: 'Restaurant A', menu: ['Burger', 'Pizza', 'Pasta'] },
      { id: 2, name: 'Restaurant B', menu: ['Sushi', 'Tempura', 'Ramen'] },
    ];

const [selectedRestaurant, setSelectedRestaurant] = useState(null);

const handleRestaurantSelect = (restaurant) => {
      setSelectedRestaurant(restaurant);
}
```

```
};
        return (
         <div>
          <h2>Choose a Restaurant</h2>
          <ul>
            {restaurants.map((restaurant) => (
             <button onClick={() => handleRestaurantSelect(restaurant)}>
               {restaurant.name}
              </button>
             ))}
          {selectedRestaurant && <Menu menu={selectedRestaurant.menu} />}
         </div>
        );
       };
       export default RestaurantList;
Menu.js:
       import React, { useState } from 'react';
       import Cart from './Cart';
       const Menu = (\{ menu \}) \Rightarrow \{
        const [cart, setCart] = useState([]);
        const addToCart = (item) => {
         setCart([...cart, item]);
        };
        return (
         <div>
          <h3>Menu</h3>
          <111>
            \{menu.map((item, index) => (
             key={index}>
              {item}
              <button onClick={() => addToCart(item)}>Add to Cart
            ))}
          <Cart cart={cart} />
         </div>
        );
       };
export default Menu;
```

Cart.js:

```
import React from 'react';
       const Cart = ({ cart }) => {
        const calculateTotal = () => {
          const itemPrices = {
           Burger: 10,
           Pizza: 12,
           Pasta: 8,
           Sushi: 15,
           Tempura: 8,
          Ramen: 10,
          };
         return cart.reduce((total, item) => total + itemPrices[item], 0);
        return (
          <div>
           <h3>Cart</h3>
           <ul>
            \{cart.map((item, index) => (
             {item}
            ))}
           Total: ${calculateTotal()}
          </div>
        );
       };
       export default Cart;
App.js:
       import React from 'react';
       import './App.css';
       import RestaurantList from './components/RestaurantList';
       function App() {
        return (
          <div className="app">
           <h1>Food Delivery App</h1>
           <RestaurantList />
         </div>
        );
       export default App;
```

OUTPUT:



Food Delivery App

Choose a Restaurant

Restaurant A
 Restaurant B





Food Delivery App

Choose a Restaurant

Restaurant A
 Restaurant B

Menu

- Burger Add to Cart
- Pizza Add to Cart

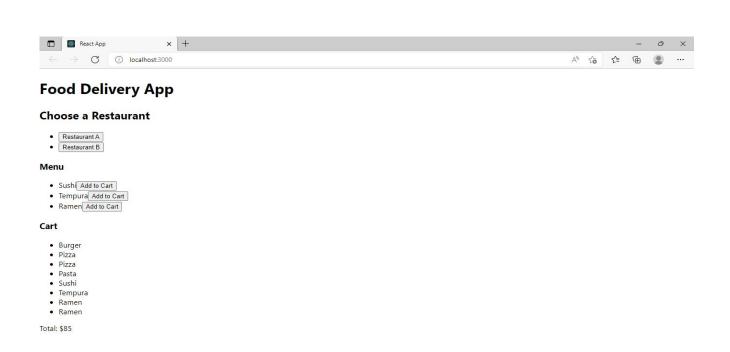
 Pasta Add to Cart

Cart

- BurgerPizzaPizzaPasta

Total: \$42





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RESULT:

0

Thus, the execution of create a food delivery website using React was successfully done and executed.

Ex No:5	Develop a classifieds web application to buy and sell used products.
DATE:	

To develop a classifieds web application to buy and sell used products using ReactJS.

ALGORITHM:

Step 1: Setup

• Create a new React app using create-react-app.

Step 2: Component Creation

- Inside the src folder, create a components directory.
- For each section of our buy and sell website (Header.js,ProductList.js), create a separate .js file inside the components directory.

Step 3: Component Content

- Define the content for each component using JSX.
- Add details about card information.

Step 4: Styling

- Create corresponding .css files for each component or use a CSS-in-JS approach.
- Apply styling to achieve the desired visual appearance for each section.

Step 5: Integrate Components

- In the App. is file, import the components you've created.
- Render each component within the return statement of the App component.

Step 6: Testing

• Run the development server (npm start) to see buy and sell website in the browser.

PROGRAM:

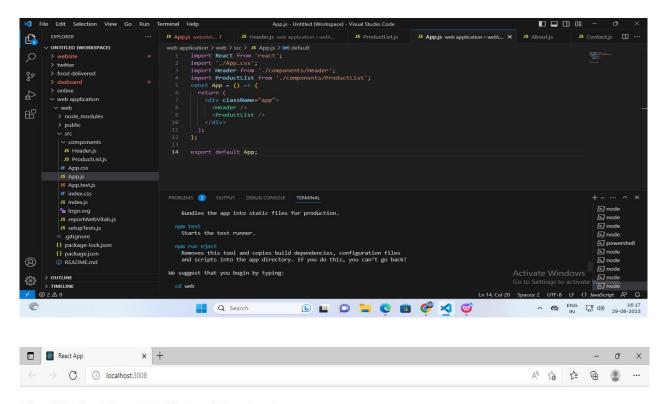
Header.js

ProductList.js

```
import React, { useState } from 'react';
const ProductList = () => {
 const [products, setProducts] = useState([
  { id: 1, title: 'Used Laptop', description: 'Good condition, 1-year-old laptop for sale.', price: 300 },
  { id: 2, title: 'Old Smartphone', description: 'Selling a used smartphone in working condition.', price: 100 },
  // Add more products here...
 ]);
 return (
  <div className="product-list">
   <h2>Used Products Listing</h2>
   <ul>
     {products.map((product) => (
     <h3>{product.title}</h3>
       {product.description}
      Price: ${product.price}
      ))}
   </div>
 );
};
export default ProductList;
import React from 'react';
```

App.js

OUTPUT:



Classifieds - Buy & Sell Used Products

Used Products Listing

Used Laptop

Good condition, 1-year-old laptop for sale.

Price: \$300

Old Smartphone

Selling a used smartphone in working condition.

Price: \$100

Activate Windows
Go to Settings to activate Windows



RESULT:
Thus, the execution of create a buy and sell used products website using react was successfully done and
executed.
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EXP No: 6	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
DATE:	view the available number of davs

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 using React.

ALGORITHM:

Step 1: Setup

- Create a new React application with necessary components.
- Initialize leave balances for different types of leaves in the state.

Step 2:LeaveApplication Component (LeaveApplication.js)

- Render a form for applying for different types of leaves.
- Manage user input using state variables for selected leave type and days.
- Implement a submit button with a logic to handle leave application.

Step 3:LeaveBalance Component (LeaveBalance.js)

- Render the available leave balance for different types of leaves.
- Iterate through leave balance data and display each leave type along with its balance.

Step 4:App Component (App.js):

- Manage the overall application state.
- Create a function to handle leave application logic.
- Pass relevant data to LeaveApplication and LeaveBalance components.

Step 5:Apply Leave Logic

- When the user submits a leave application, validate the input.
- Check if the selected leave type exists and if the days are valid.
- If the conditions are met, update the leave balance accordingly.

PROGRAM:

LeaveApplication.js

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

const LeaveApplication = ({ leaveTypes, onApply }) => {
   const [selectedLeaveType, setSelectedLeaveType] = useState(");
   const [days, setDays] = useState(");

const handleSubmit = () => {
   if (selectedLeaveType && days) {
      onApply(selectedLeaveType, days);
   }
}
```

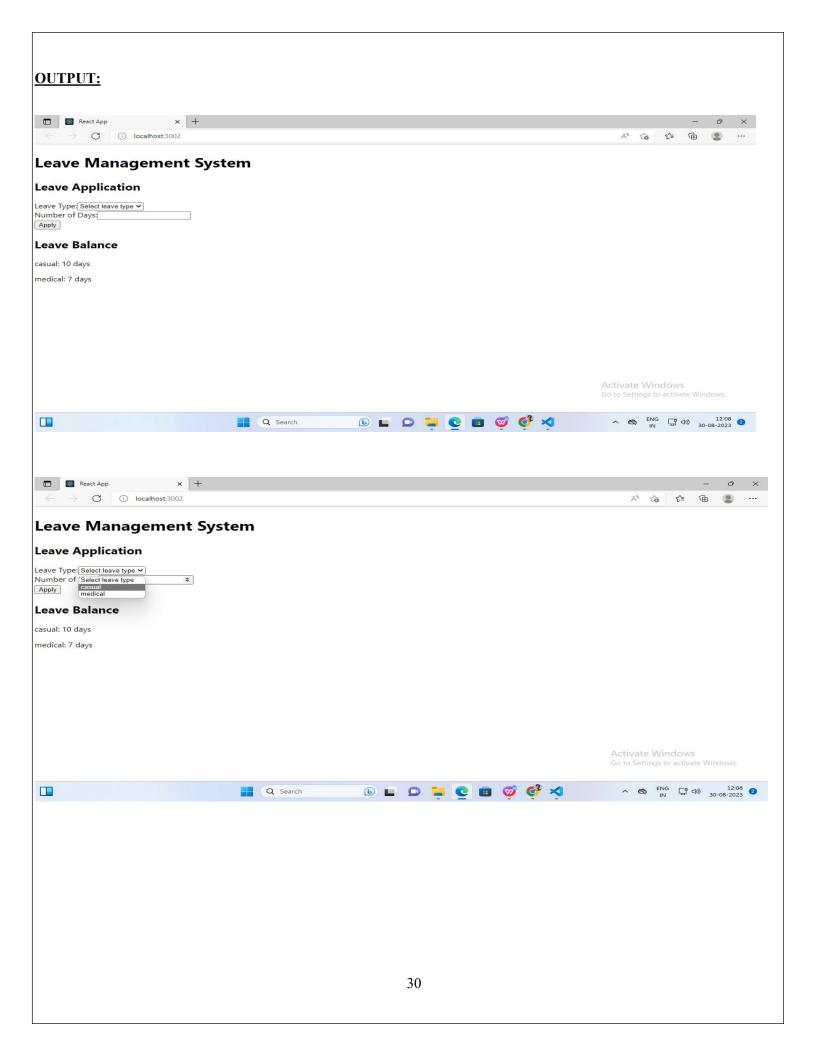
```
setSelectedLeaveType(");
   setDays(");
 };
 return (
  <div>
   <h2>Leave Application</h2>
   <div>
    <label>
     Leave Type:
     <select value={selectedLeaveType} onChange={(e) => setSelectedLeaveType(e.target.value)}>
       <option value="">Select leave type</option>
       {leaveTypes.map((type) => (
        <option key={type} value={type}>
         {type}
        </option>
       ))}
      </select>
    </label>
   </div>
   <div>
    <label>
     Number of Days:
     <input type="number" value={days} onChange={(e) => setDays(e.target.value)} />
    </label>
   </div>
   <button onClick={handleSubmit}>Apply</button>
  </div>
 );
};
export default LeaveApplication;
```

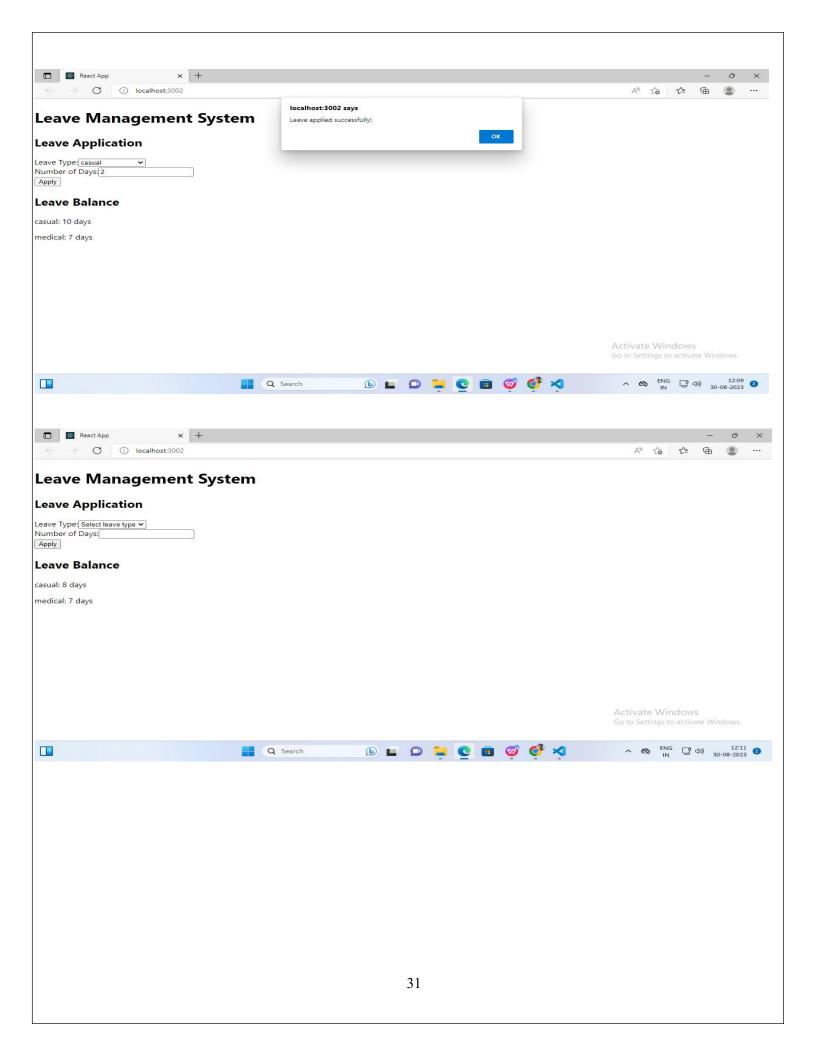
LeaveBalance.js

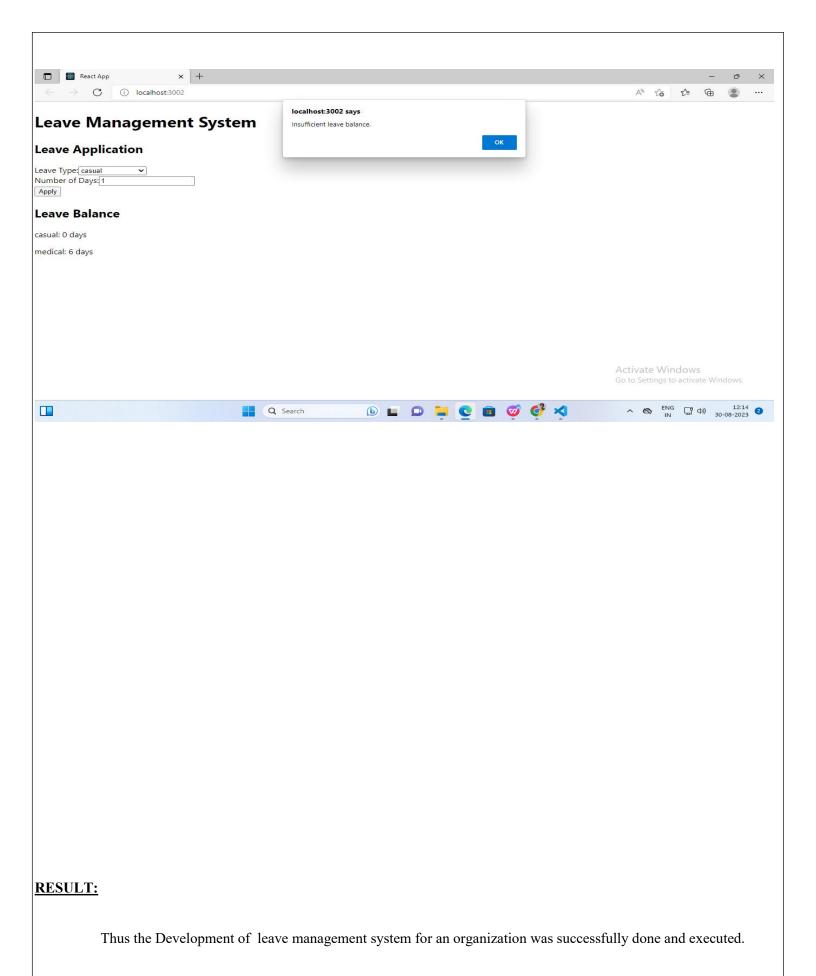
export default LeaveBalance;

App.js

```
import React, { useState } from 'react';
import LeaveApplication from './components/LeaveApplication';
import LeaveBalance from './components/LeaveBalance';
const App = () \Rightarrow \{
 const [leaveBalances, setLeaveBalances] = useState({
  casual: 10,
  medical: 7,
 });
 const applyLeave = (leaveType, days) => {
  if (leaveBalances[leaveType] >= days) {
   setLeaveBalances((prevBalances) => ({
    ...prevBalances,
    [leaveType]: prevBalances[leaveType] - days,
   alert('Leave applied successfully!');
  } else {
   alert('Insufficient leave balance.');
 };
 const leaveTypes = Object.keys(leaveBalances);
return (
  < div>
   <h1>Leave Management System</h1>
   <LeaveApplication leaveTypes={leaveTypes} onApply={applyLeave} />
   <LeaveBalance leaveBalances={leaveBalances} />
  </div>
);
};
export default App;
```







Ex No: 7	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
DATE:	tasks can be changed among Pending, InProgress or Completed.

To develop a simple dashboard for project management where the statuses of various tasks are available and new tasks can be added and the status of existing tasks can be changed among Pending, InProgress or completed status will be displayed using ReactJS.

ALGORITHM:

Step 1: Setup

• Create a new React app using create-react-app.

Step 2: Component Creation

- Inside the src folder, create a components directory.
- For each section of our dashboard(TaskForm, TaskList), create a separate .js file inside the components directory.

Step 3: Component Content

- Define the content for each component using JSX.
- Add details about skills, experiences, projects, and contact information.

Step 4: Styling

- Create corresponding .css files for each component or use a CSS-in-JS approach.
- Apply styling to achieve the desired visual appearance for each section.

Step 5: Integrate Components

- In the App.js file, import the components you've created.
- Render each component within the return statement of the App component.

Step 6: Testing

• Run the development server (npm start) to see dashboard website in the browser.

PROGRAM:

TaskForm.js

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

const TaskForm = ({ onAddTask }) => {
  const [task, setTask] = useState(");
  const [project, setProject] = useState(");

const handleSubmit = (e) => {
  e.preventDefault();
  if (task.trim() !== " && project.trim() !== ") {
    onAddTask(task, project);
    setTask(");
    setProject(");
```

```
};
 return (
  <div>
   <h2>Add New Task</h2>
   <form onSubmit={handleSubmit}>
    <input
     type="text"
     value={task}
     onChange={(e) => setTask(e.target.value)}
     placeholder="Enter new task..."
    />
    <input
     type="text"
     value={project}
     onChange={(e) => setProject(e.target.value)}
     placeholder="Enter project name..."
    <button type="submit">Add Task</button>
   </form>
  </div>
 );
};
export default TaskForm;
```

TaskList.js

App.js

```
import React, { useState } from 'react';
import './App.css';
import TaskForm from './Components/TaskForm';
import TaskList from './Components/TaskList';
const App = () \Rightarrow {
 const [tasks, setTasks] = useState([]);
 const addTask = (description, project) => {
  setTasks([...tasks, { description, project, status: 'Pending' }]);
 };
 const changeStatus = (index) => {
  const newTasks = [...tasks];
  const task = newTasks[index];
  switch (task.status) {
   case 'Pending':
     task.status = 'InProgress';
    break;
   case 'InProgress':
     task.status = 'Completed';
     break;
   case 'Completed':
     task.status = 'Pending';
     break;
   default:
    break;
  setTasks(newTasks);
 };
 return (
  <div className="App">
   <h1>Task Management System</h1>
   <TaskForm onAddTask={addTask} />
   <TaskList tasks={tasks} onStatusChange={changeStatus} />
  </div>
 );
};
```

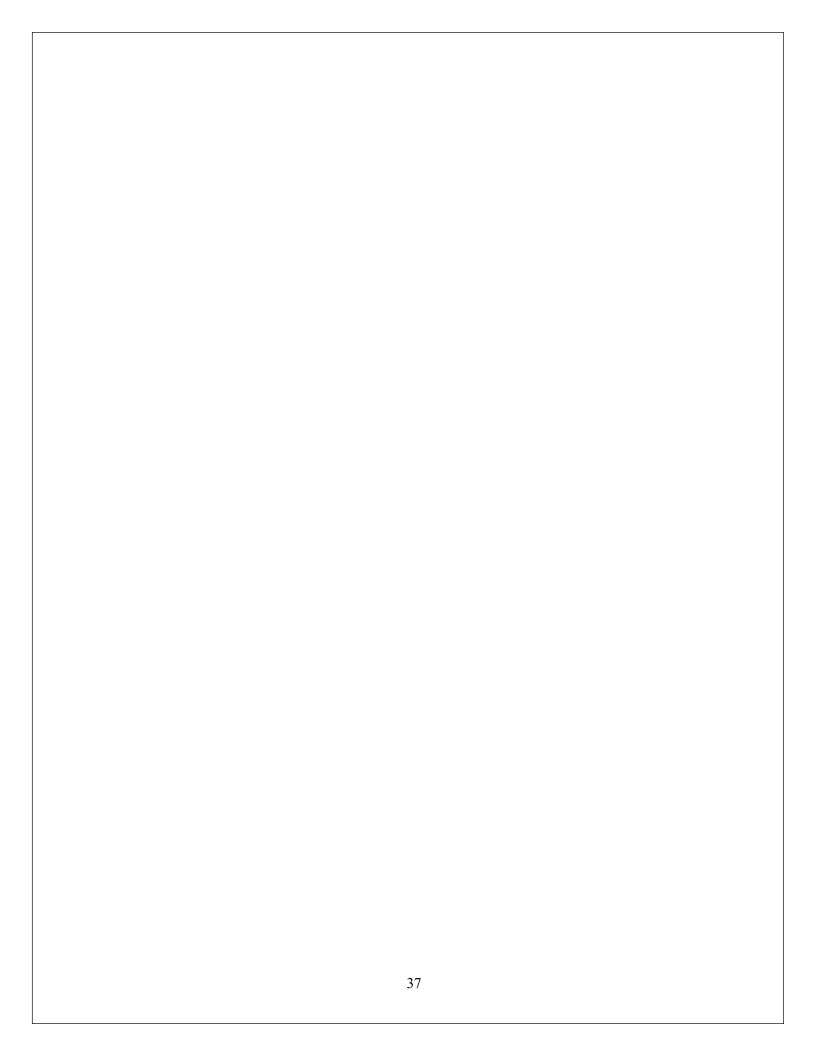
export default App;

App.css

```
.App {
 text-align: center;
 margin: 20px;
h1 {
 color: #007bff;
form {
 margin-bottom: 20px;
button {
 margin-top: 10px;
ul {
 list-style-type: none;
 padding: 0;
li {
 margin: 5px;
 display: flex;
justify-content: space-between;
 background-color: #f0f0f0;
 padding: 5px;
 cursor: pointer;
.completed {
 background-color: #b3ffb3;
.in-progress {
 background-color: #ffffb3;
```

RESULT:

Thus, the Development of simple dashboard for project management was successfully done and executed.



Ex No : 8	Develop an online survey application where a collection of questions is available
DATE:	and users are asked to answer any random 5 questions.

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

ALGORITHM:

Step 1: Setup

• Create a new React app using create-react-app.

Step 2: Component Creation

- Inside the src folder, create a components directory.
- For each section of online survey application (Question), create a separate .js file inside the components directory.

Step 3: Component Content

- Define the content for each component using JSX.
- Add details about skills, experiences, projects, and contact information.

Step 4: Styling

- Create corresponding .css files for each component or use a CSS-in-JS approach.
- Apply styling to achieve the desired visual appearance for each section.

Step 5: Integrate Components

import React from 'react';

- In the App.js file, import the components you've created.
- Render each component within the return statement of the App component.

Step 6: Testing

• Run the development server (npm start) to see online survey website in the browser.

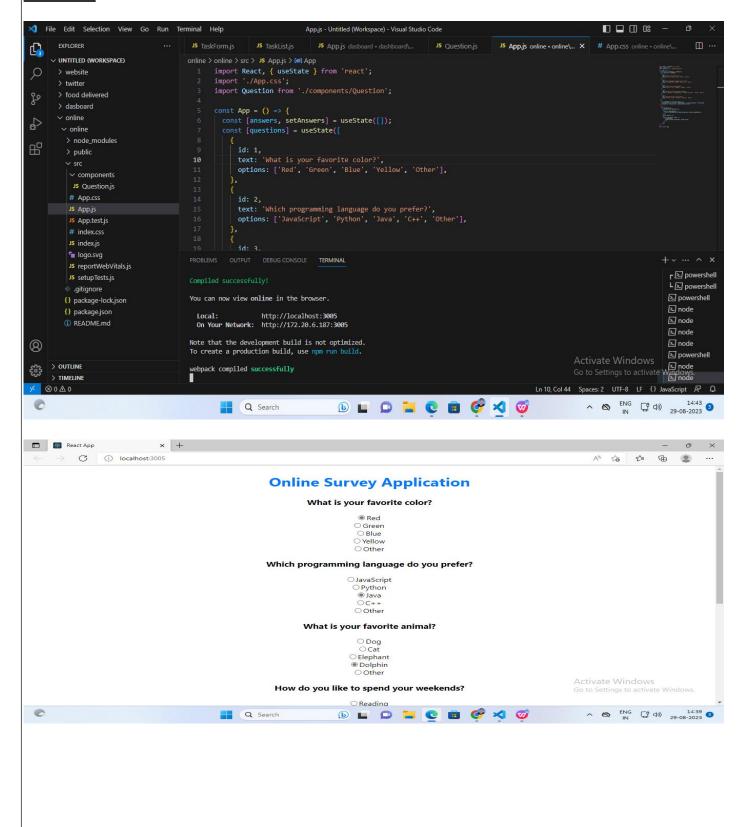
PROGRAM:

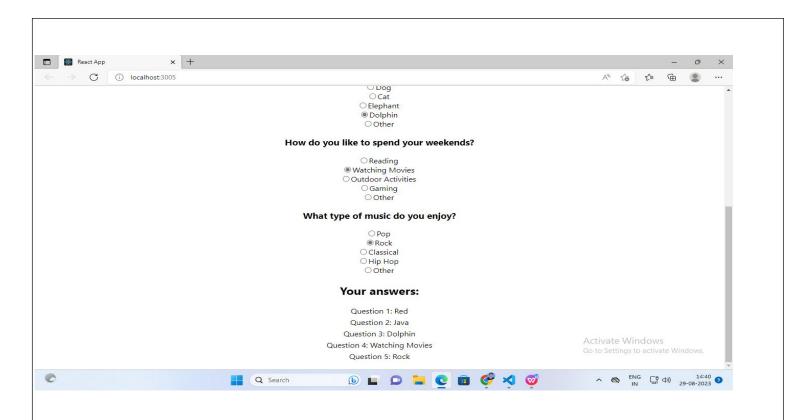
Question.js

```
/>
               <label htmlFor={option}>{option}</label>
              </div>
             ))}
           </div>
          </div>
         );
        };
        export default Question;
App.js
        import React, { useState } from 'react';
        import './App.css';
        import Question from './Components/Question';
        const App = () => 
         const [answers, setAnswers] = useState([]);
         const [questions] = useState([
           id: 1,
           text: 'What is your favorite color?',
           options: ['Red', 'Green', 'Blue', 'Yellow', 'Other'],
           id: 2,
           text: 'Which programming language do you prefer?',
           options: ['JavaScript', 'Python', 'Java', 'C++', 'Other'],
           id: 3,
           text: 'What is your favorite animal?',
           options: ['Dog', 'Cat', 'Elephant', 'Dolphin', 'Other'],
           id: 4,
           text: 'How do you like to spend your weekends?',
           options: ['Reading', 'Watching Movies', 'Outdoor Activities', 'Gaming', 'Other'],
           id: 5,
           text: 'What type of music do you enjoy?',
           options: ['Pop', 'Rock', 'Classical', 'Hip Hop', 'Other'],
          },
         ]);
         const handleAnswer = (questionId, option) => {
          const updatedAnswers = answers.filter((answer) => answer.questionId); == questionId);
          setAnswers([...updatedAnswers, { questionId, option }]);
         };
         return (
```

```
<div className="App">
          <h1>Online Survey Application</h1>
          <div>
            {questions.map((question) => (
             <Question key={question.id} question={question} onAnswer={handleAnswer} />
           ))}
          </div>
          <h2>Your answers:</h2>
          <ul>
           \{answers.map((answer, index) => (
             key={index}>
              Question {answer.questionId}: {answer.option}
             ))}
          </div>
        );
       export default App;
App.css
       .App {
        text-align: center;
        margin: 20px;
       h1 {
        color: #007bff;
       ul {
        list-style-type: none;
        padding: 0;
       li {
        margin: 5px;
       label {
        margin-right: 5px;
```

OUTPUT:





RESULT:

Thus, the Development of Online Survey application was successfully done and executed.

