Ex. No.:02	**PLANNING A REAL APPLICATIONS**
Date : 31/07/2024	

Aim:

To develop a React component that collects a user's name through an input field and displays it after submission, creating an interactive welcome screen.

Procedure:

1. Set Up the React Project:

- Create a new React project using Vite or create-react-app.
- Open the project folder and navigate to App.js.

2. Code Explanation:

- Import the useState hook from React to manage state.
- Create two state variables: name to hold the input value, and submittedName to store the submitted name.
- Define handleInputChange to update name with each keystroke.
- Define handleSubmit to set submittedName with the current name value and then clear the input field.

3. Build the UI:

- Create a centered div with a heading that welcomes users to SRMIST MCA.
- Add an input field with a placeholder to prompt the user to enter their name.
- Add a submit button to confirm the name input.
- Display the submitted name below the button once it is entered.

4. Run the Application:

- Save the changes.
- Start the development server using npm start.
- Open the application in the browser to test the input functionality.

Source code:

```jsx
import { useState } from 'react';

function App() {
  const [name, setName] = useState('');  // To store the name entered by the user
  const [submittedName, setSubmittedName] = useState('');  // To store the submitted name

  const handleInputChange = (event) => {
    setName(event.target.value);  // Update the name as the user types
  };

  const handleSubmit = () => {
    setSubmittedName(name);  // Save the name when the user clicks the button
    setName('');  // Optionally clear the input after submission
  };

  return (
    <div style={{ display: 'flex', flexDirection: 'column', justifyContent: 'center', alignItems: 'center', height: '100vh' }}>
      <h1>
        WELCOME TO <span style={{ color: 'blue' }}>SRMIST</span> MCA
      </h1>
      <input
        type="text"
        placeholder="Enter your name"
        value={name}
        onChange={handleInputChange}
        style={{ marginTop: '20px', padding: '10px', fontSize: '16px' }}
      />
      <button onClick={handleSubmit} style={{ marginTop: '10px', padding: '10px 20px', fontSize: '16px' }}>
        Submit
      </button>
```
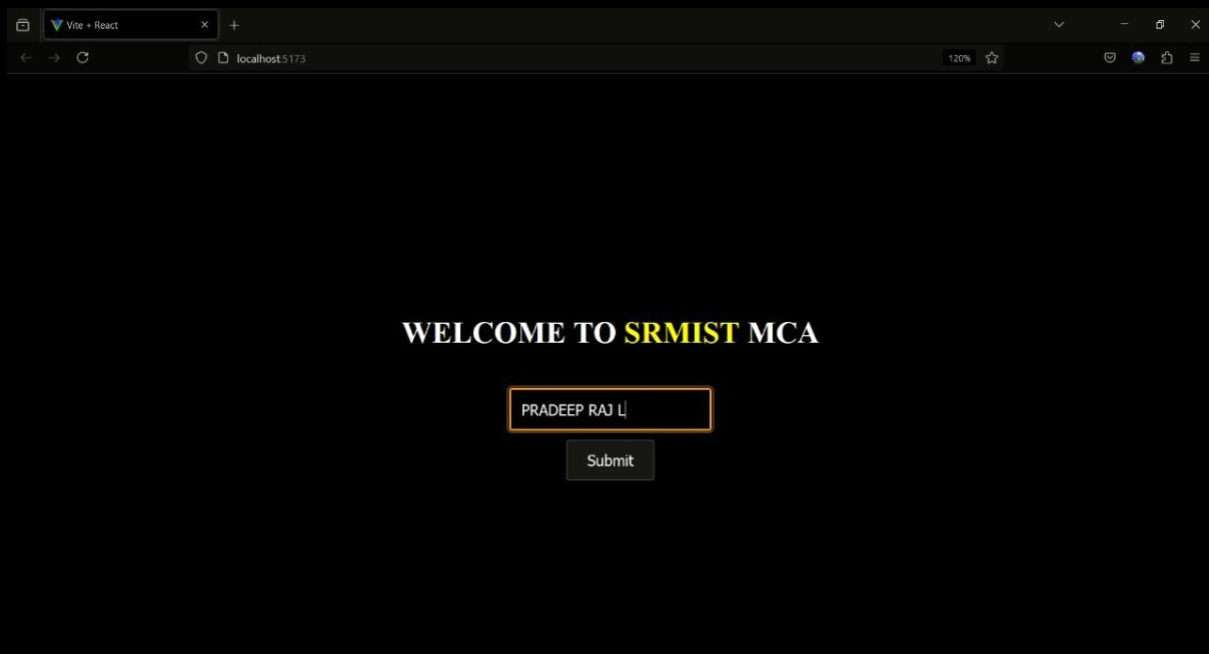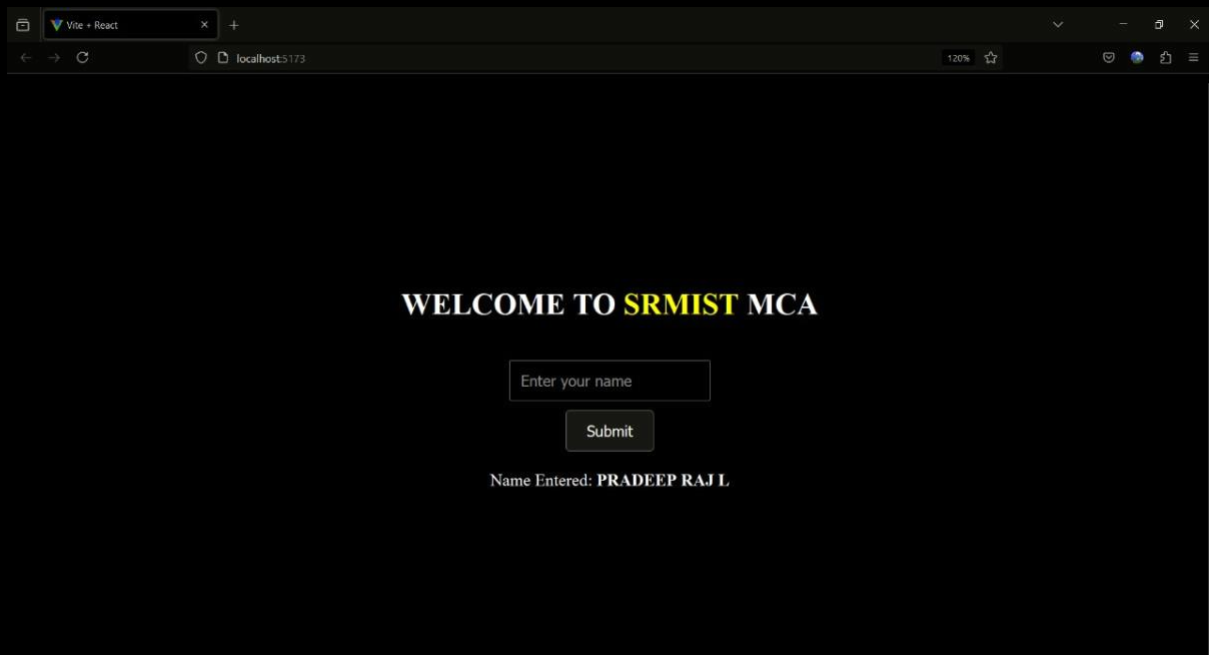
```
    {submittedName && (

      <p style={{ marginTop: '20px', fontSize: '18px' }}>

        Name Entered: <strong>{submittedName}</strong>

      </p>

    )}

  </div>

 );

}


export default App;
```

Output:

Result:

The application displays a welcome message with "SRMIST" in blue and an input field prompting users to enter their name. When submitted, the entered name is displayed on the screen in a message, confirming the submission. This provides a user-friendly, interactive welcome page for SRMIST MCA.