Ex. No.: 08	Making The Application use right database
Date: 11/09/2024	

Aim:

To create a React application that allows users to enter their name and email, and submit this information to a backend API. The application demonstrates the use of form handling, state management, and Axios for HTTP requests in React.

Procedure:

1. Setup Environment:

- Ensure Node.js and npm are installed on your system.
- Create a new React application using Create React App:

bash

npx create-react-app user-info-submission

cd user-info-submission

- Install Axios for handling HTTP requests:

bash

npm install axios

2. Set up the Backend:

- Ensure you have a backend server running on http://localhost:5500 with an endpoint POST /api/submit to handle data submission.
- The server should be able to receive JSON data and handle requests from your frontend.

3. Create the App Component:

- Replace the code in src/App.js with the provided code for the user submission form.

4. Define State Variables:

- Use the useState hook to create two state variables:
- name for storing the user's name.
- email for storing the user's email address.
- Each state variable is initialized with an empty string (").

5. Handle Form Submission with Axios:

- Define an asynchronous handleSubmit function:

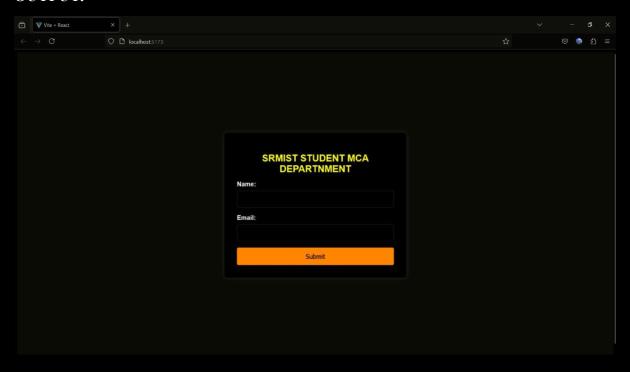
- Prevent the page reload using e.preventDefault().
- Use Axios to make a POST request to the backend at http://localhost:5500/api/submit.
- Send the name and email in the request body.
- Handle successful responses by displaying a success message and logging the response data.
- Handle errors by logging the error to the console and displaying an alert for failure.

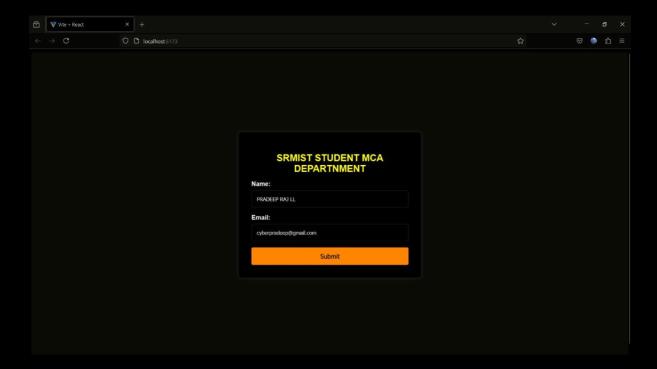
SOURCE CODE:

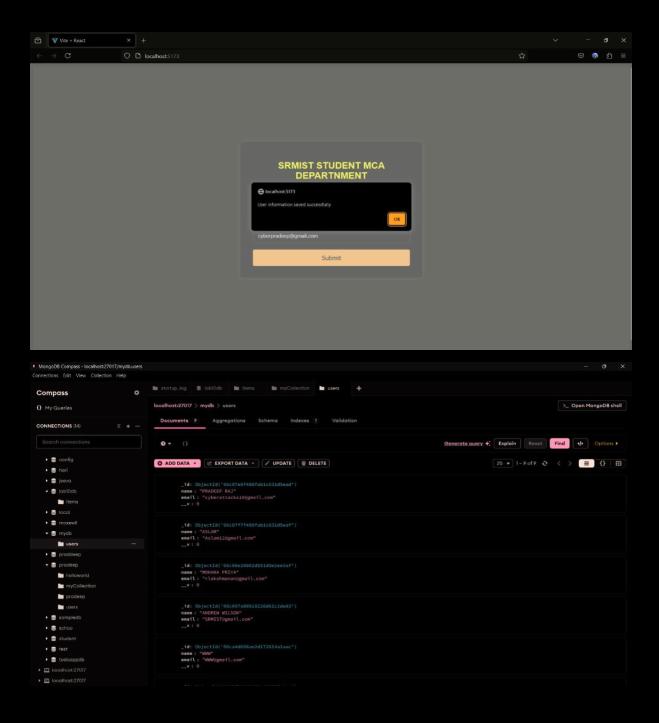
```
import { useState } from 'react';
import axios from 'axios';
import './App.css';
function App() {
 const [name, setName] = useState(");
 const [email, setEmail] = useState(");
 const handleSubmit = async (e) => {
  e.preventDefault();
  try {
   const response = await axios.post('http://localhost:5500/api/submit', {
    name,
    email,
   });
   console.log(response.data);
   alert('User information saved successfully');
  } catch (error) {
   console.error('There was an error!', error);
   alert('Failed to save user information');
 };
 return (
  <div className="App">
   <div className="form-container">
```

```
<h2 style={{color:'blue'}}>SRMIST STUDENT MCA DEPARTNMENT</h2>
    <form onSubmit={handleSubmit}>
     <div className="form-group">
      <label>Name:</label>
      <input
       type="text"
       value={name}
       onChange={(e) => setName(e.target.value)}
       required
     </div>
     <div className="form-group">
      <label>Email:</label>
      <input
       type="email"
       value={email}
       onChange={(e) => setEmail(e.target.value)}
       required
     </div>
     <button type="submit">Submit
    </form>
   </div>
  </div>
 );
}
export default App;
```

OUTPUT:







RESULT:

User Information Submission Application collects and submits the user's name and email address to the backend. Upon submitting the form:

- The application sends a POST request to the backend API with the collected information.
- If the request is successful, a confirmation message is displayed, and the console logs the server response.
- If the request fails, an error message is displayed, indicating that the submission was unsuccessful.