



# PRACTICE SET

<Code n Cloud>

ASSIGN\_NO : CNC\_M2\_RCT\_03

DATE : 07-03-2024

**Assignment Title: Profile Card App with Search Functionality and Modal using React**

**Assignment Overview:** In this assignment, you will enhance the "Profile Card App" by adding a modal component for displaying detailed user information. The application will display profile cards for users fetched from an API, and it will include search functionality to filter users based on their names. Additionally, clicking on a profile card will open a modal displaying detailed information about the selected user.

**Assignment Tasks:**

1. Set up a new React project using Create React App or any preferred React boilerplate.
2. Create components for profile cards, search functionality, and modal.
3. Fetch user data from the API endpoint "<https://jsonplaceholder.typicode.com/users>" using the `useEffect` hook.
4. Store the fetched user data in state variables using the `useState` hook.
5. Implement a search input field where users can enter a search term to filter the displayed profile cards.
6. Create a `handleChange` function to handle changes in the search input field and filter the user data accordingly.
7. Use the `filter` method to filter user data based on the search term entered by the user.
8. Update the UI to display only the profile cards that match the search criteria.
9. Implement a modal component that displays detailed information about a selected user when a profile card is clicked.
10. Use state to manage the visibility of the modal and the data of the selected user.
11. Style the user interface using CSS to make it visually appealing and user-friendly.
12. Test the application to ensure that profile cards are displayed correctly, the search functionality works as expected, and the modal displays detailed user information.
13. Provide comments and documentation to explain the code structure, component logic, and functionality.

**Deliverables:**

1. React project folder containing all the necessary components, CSS files, and other assets.
2. Documentation explaining the project structure, component hierarchy, and functionality implemented.
3. Submission of the project files through the designated platform or repository.

**Note:** You may customize the user interface and add additional features to enhance the application according to your creativity and preferences. This assignment aims to assess your proficiency in React development, state management, implementing search functionality, and integrating a modal component in a web application.