



# PRACTICE SET

ASSIGN\_NO : CNC\_M2\_RCT\_04

DATE : 15-03-2024

**Assignment Title: Secure User Management Dashboard with Authentication and Pagination**

## Assignment Description:

*In this assignment, you are tasked with developing a secure user management dashboard using React.js with authentication and pagination functionality. The dashboard will allow authenticated users to view a list of users fetched from an external API and navigate through different pages of user data.*

## Assignment Requirements:

- 1. Authentication:** Implement user authentication functionality to allow users to log in securely. Use Context API or any other state management solution to manage authentication state globally across the application.
- 2. User Data Fetching:** Fetch user data from an external API (e.g., "https://reqres.in/api/users") using the fetch API or Axios library. Display a list of users on the dashboard.
- 3. Pagination:** Implement pagination controls (previous and next buttons) to allow users to navigate between different pages of user data. Fetch and display a specific page of user data based on the current pagination state.
- 4. Login Page:** Develop a login page where users can log in to access the user management dashboard securely. Authenticate user credentials using an external API and store authentication tokens securely.
- 5. Protected Routes:** Define protected routes using React Router to restrict access to certain pages or features for authenticated users only. Redirect unauthenticated users to the login page.
- 6. User Feedback:** Provide user feedback messages for successful login, failed login attempts, and navigation between pages. Display loading indicators while fetching user data.
- 7. Responsive Design:** Design the user management dashboard with a responsive layout to ensure compatibility and optimal user experience across various devices and screen sizes.

## Assignment Deliverables:

- 1. Fully functional user management dashboard with authentication and pagination built with React.js.**
- 2. Source code repository containing all project files, including React components, CSS stylesheets, authentication logic, and pagination functionality.**
- 3. Documentation detailing the project setup, installation instructions, key features, and usage guidelines.**
- 4. Presentation or demonstration showcasing the assignment's functionality, including login, pagination, and responsive design.**

## Submission Instructions:

- Submit the assignment source code and documentation via the designated platform (e.g., GitHub, Google Drive).**
- Ensure that the documentation includes clear instructions on how to set up and run the project locally.**
- Provide any additional information or insights gained during the development process.**

***Note: This assignment aims to assess your understanding of React.js development, authentication implementation, pagination, and responsive design. It will demonstrate your ability to build interactive web applications with dynamic data display and user-friendly navigation controls.***