CMJD - Comprehensive Master Java Developer

Course work – Batch 108/109

Assignment 2: Front end Development with React

Project: Lost and Found Application for an Educational Institute

Objective:

Develop and implement business logic that meets the requirements of a Lost and Found system using the specified technology stack.

Tech Stack:

- React (with TypeScript template)
- Related supportive libraries (e.g., React Router)

Task Flow:

React Project Setup:

- Create a pure React application using TypeScript.
- Add supportive libraries like **React Router** to implement the Single Page Application (SPA) concept.

Authentication Handling:

- Design **Sign-In** and **Sign-Up** user interfaces.
- Include form validations.
- Integrate JWT-based authentication handling.
- After successful signup, redirect users to the appropriate page.

Navigation:

- Implement a navigation bar and integrate it with **React Router**.
- Manage **role-based data access** with appropriate restrictions.

Component Management:

- Create components that align with backend operations.
- Ensure the UI supports complete **CRUD operations**.
- Aim to make the UI responsive (some R&D may be involved).

UI/UX Design:

- Focus on good UI/UX practices, including consistent colors and layouts.
- You may use a CSS framework such as **Tailwind CSS** or **Bootstrap** for faster and cleaner design.

VCS handle

- Use GitHub and share the repository link when submitting the task.