

# Employee Management System (React.js)

## Project Overview

The Employee Management System is a React-based CRUD application designed for students to understand real-world frontend development concepts. The project allows users to add, view, update, delete, and search employee records with persistent storage using the browser's localStorage.

## Key Features

- Add employee details with image upload
- View employees in table and card layout
- Update employee details using React Router
- Delete employee records
- Search employees by name or ID
- Persistent data storage using localStorage
- Modern UI using Tailwind CSS and Lucide Icons

## Technology Stack

- Frontend: React.js (Functional Components)
- Styling: Tailwind CSS
- Icons: Lucide React
- Routing: React Router DOM
- Storage: Browser localStorage
- Tools: VS Code, Git, GitHub

## Project Modules

- Home Page – Displays employee cards with search functionality
- Add Employee – Form to add new employee data
- View Employee – Table view of employee records
- Update Employee – Edit existing employee details
- Delete Employee – Remove employee records permanently

## Learning Outcomes

- Understanding React state management using useState
- Using useEffect for side effects and localStorage sync
- Implementing CRUD operations in React
- Working with React Router for navigation
- Building responsive UI with Tailwind CSS
- Handling file uploads using FileReader

## Conclusion

This project helps students gain hands-on experience with modern frontend development practices. By completing this project, students build a strong foundation in React and understand how real-world CRUD applications are structured.