

# ■ React JS Assignment: Simple Student Management System

## ■ Objective

Build a basic React application to manage a list of students and understand state management, props, and component interaction.

## ■ Concepts Covered

- 1 Functional components
- 2 useState hook
- 3 Props
- 4 Forms & input handling
- 5 Lists & keys
- 6 Conditional rendering

## ■ Project Requirements

### App Features

- 1 Add a student (name, age, course)
- 2 Display a list of students
- 3 Delete a student
- 4 Search students by name
- 5 Display total number of students

### Suggested Components

- 1 App – main component
- 2 StudentForm – add new student
- 3 StudentList – displays students
- 4 StudentCard – individual student details
- 5 SearchBar – filter students

### Functional Requirements

- 1 Store students in React state
- 2 Each student should have: id, name, age, course
- 3 Form validation (no empty fields)
- 4 Real-time search filtering

## ■ UI Requirements

- 1 Simple card layout for each student
- 2 Clean form design
- 3 Responsive layout (basic)

## ■ Submission Guidelines

- 1 GitHub repository link
- 2 README with setup instructions
- 3 Screenshots (optional)

## ■ Evaluation Criteria

- 1 Proper component usage
- 2 State & props handling
- 3 Clean and readable code