

Assignment Twenty

Please read:

- This is your twenty assignment which you need to submit on the LMS. This is an assignment on Redux Toolkit.
- Work on the questions given below and be ready with your solution. You have to submit your codesandbox link below on this page.
- Late Submission: The deadline to submit this assignment is 19th February 2024, 6:00PM IST.

Important Instructions:

1. Make sure that you follow the rules as it will help you build your muscle.
2. Do not copy from someone else as that would be cheating.

challenge

Introduction

The School Management Application is designed to facilitate the management of student and teacher information within a school. It provides tools for administrators and users to efficiently manage student and teacher records, view class-specific data, and access school-wide statistics.

Product Description

- Student Management: Users can add, edit, and delete student records, view individual student details, and list all students.

- **Teacher Management:** Users can add, edit, and delete teacher records, view individual teacher details, and list all teachers.
- **Class View:** Users can view a class-specific list of students, filter students by gender, and sort students by various criteria.
- **School View:** Users can view school-wide statistics, including the total number of students, average attendance, average marks, and the top-performing student.

Functional Requirements

Student Management

Add Student

- Administrators can add a new student by providing the following information: name, age, grade, gender, attendance, marks.
- Students must be associated with a class.

Edit Student

- Administrators can edit an existing student's information.
- Editing includes updating name, age, grade, gender, attendance, and marks.

Delete Student

- Administrators can delete a student record from the system.

View Students

- Users can view a list of all students in the school.
- Users can view the details of a specific student.

Teacher Management

Add Teacher

- Administrators can add a new teacher by providing the following information: name, subject, contact information.

Edit Teacher

- Administrators can edit an existing teacher's information.
- Editing includes updating name, subject, and contact information.

Delete Teacher

- Administrators can delete a teacher record from the system.

View Teachers

- Users can view a list of all teachers in the school.
- Users can view the details of a specific teacher.

Class View

View Class Students

- Users can view a list of students in a specific class.
- Class selection must be available.

Filter Students by Gender

- Users can filter students in a class by gender.

Sort Students

- Users can sort students in a class by name, age, attendance, or marks.

School View

School-wide Statistics

- Users can view school-wide statistics, including the total number of students, average attendance, average marks, and the top-performing student.