

Student Management System

Develop an application to keep track of Students records.

1. Provide login functionality
2. Check if the logged in user is a valid user or not
3. If valid user - then fetch all available students from database
4. Provide option to add new student
5. Provide option to edit student
6. Provide option to delete student details

Database Design and Setup:

Create Database for User and Student

Database name - Your_Name_User, You_Name_Student

Database - User

1. Create table User

User_Id (int)	User_Name (varchar)	Password (varchar)
1	Mohan	Next@123
2	Prakash	Next@321

Database - Student

1. Create table Student

Student_Id (int)	Name (varchar)	Admission_No (varchar)	Class_Id (FK) (int)	Section_Id (int)	Joining_Date (DateTime)
1	Sai	A-101	5	2	2023-06-25 00:00:00
2	Naveen	A-102	6	2	2023-06-25 00:00:00

2. Create table Class

Class_Id (int)	Class_Name (varchar)
5	LKG
6	UKG

3. Create table Section

Section_Id (int)	Section_Name (varchar)	Class Id (FK) (int)
1	A	5
2	B	5

Microservices Development

Create two microservices:

1. User Service
2. Student Service

APIs

1. Write API to validate user details.
2. Write API to fetch all student details
3. Write an API to add Student
4. Write an API to update Student details
5. Write an API to delete student