Students Manage

I. Introduction

We should manage students with software, which helps us save time and effort, and also helps to monitor students' learning progress better.

II. Technology

- NestJS

NestJS is a powerful and extensible framework for building server-side applications using **Node.js**. It is primarily used to develop scalable and maintainable web applications, APIs, and microservices. NestJS is built with TypeScript and leverages many modern JavaScript features, making it highly type-safe and developer-friendly.

- Prisma

Prisma is an open-source **ORM (Object-Relational Mapping)** tool for Node.js and TypeScript, designed to simplify database interaction and improve the developer experience when working with databases. It provides a type-safe query engine that allows developers to interact with relational databases in a more efficient and intuitive way.
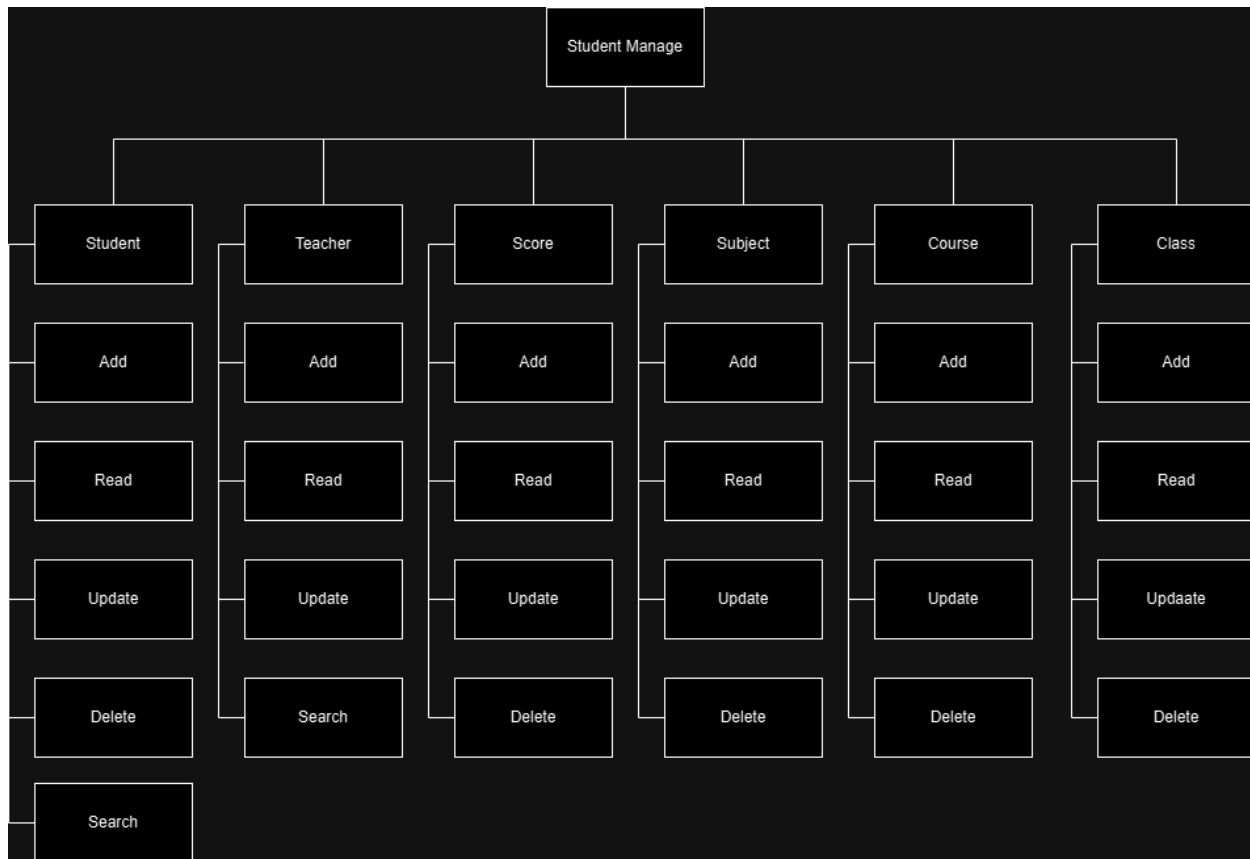
- MySQL

MySQL is one of the most popular open-source **relational database management systems (RDBMS)**. It is used to store, manage, and retrieve data for applications, websites, and other software systems. MySQL uses structured query language (**SQL**) to interact with the data, which is stored in tables and organized into rows and columns.
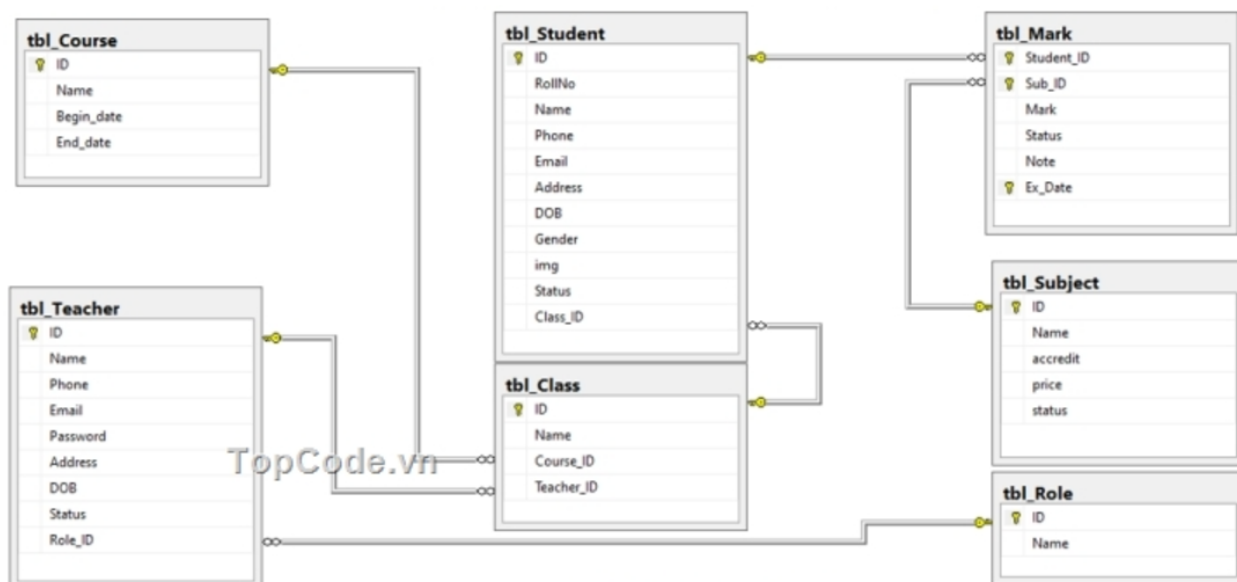
- Docker

Docker is an open-source platform used to automate the deployment, scaling, and management of applications inside lightweight, portable containers. Containers package an application and its dependencies, including libraries and configurations, into a standardized unit that can run consistently across different environments, making it easier to develop, test, and deploy applications.
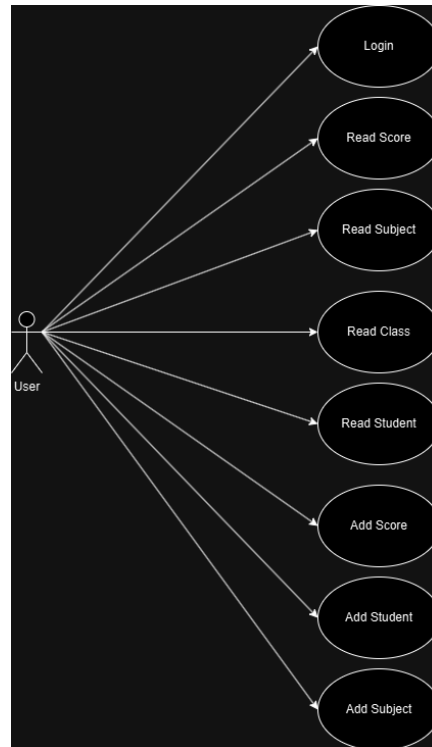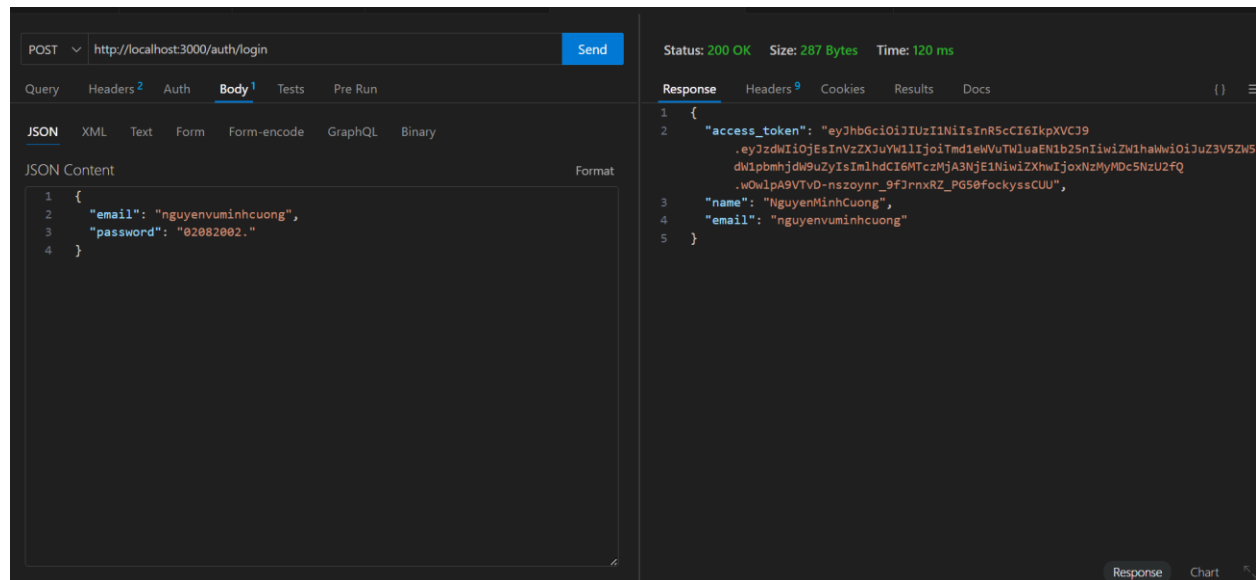
III. Design System

1. Function

2. ERD

3. Use-case

IV. Test System

1. Login

2. Get List

3. Create Object

4. Update Object