# Student Management System with Spring Boot: CRUD Operations and RESTful API

# OVERVIEW

Create a Spring Boot application with Student entity and Student JPA repository. Use Spring Rest Controller API to perform CRUD operations on Student data.

# FUNCTIONAL REQUIREMENTS

* Build an application for getting student details.
* Have to create a folder named “Controller” inside the springapp in src.
* Inside the Controller create a java file named “ApiController.java”.
* Next have to create another folder inside the springapp named as

“Models”.

* Inside Models, you should create the java file named “Student.java”.
* And create Repository folder and inside that create "StudentRepo.java".

**Create 5 variables**

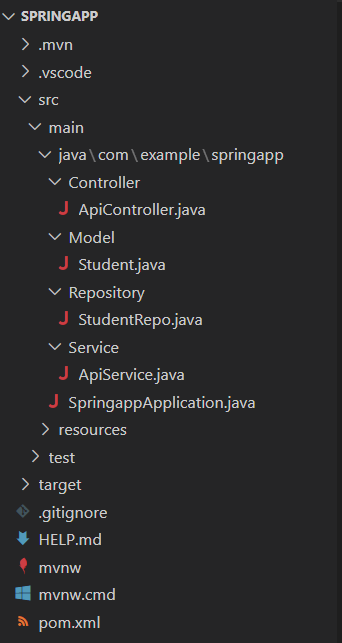
* Id - int
* Name- string
* Age – int
* Address – string
* Department – String

as well as create getters and setters and constructors for the corresponding

variables. Finally, create the "Service" folder, and inside that create the

"ApiService.java" file.

The project structure looks like this image



**Core Platform**

OpenJDK 11

**API:**

POST - "/" --> true/false

GET - "/{id}" --> List of student object GET - "/" --> List of student object PUT - “/{id}” --> Song object

DELETE - “/{id}” --> true/false

GET-"/students/{sortByName}" --> return the list of students sorted by name in ascending order.

GET –“/student/agerange /{minAge}/{maxAge}”--> returns list of students

**Note:**

Copy and paste it into the **application.properties** file.

**spring.jpa.hibernate.ddl-auto=update**

**spring.datasource.url=jdbc:mysql://localhost/student?createDatabaseIfNotE xist=true**

**spring.datasource.username=root spring.datasource.password=examly**

**spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver spring.jpa.show-sql= true**

**spring.jpa.database-platform=org.hibernate.dialect.MySQL8Dialect**

**API endpoint:**

8080

**Platform Guidelines:**

To run the command use Terminal in the platform.

**Spring Boot:**

To start/run the application **'mvn spring-boot:run'**