

Class Name: studentRepository	
Parent Classes (if any): JpaRepository Subclasses (if any): None	
Responsibilities: <ul style="list-style-type: none">Manages data in the Spring Boot application	Collaborators: <ul style="list-style-type: none">studentServicestudentServiceImplstudentstudentController

Class Name: student	
Parent Classes (if any): None Subclasses (if any): None	
Responsibilities: <ul style="list-style-type: none">Creates all of the variables for the database.Creates all of the setter and getter methods for these variables	Collaborators: <ul style="list-style-type: none">studentServicestudentServiceImplstudentRepositorystudentController

Class Name: studentService	
Parent Classes (if any): None Subclasses (if any): studentServiceImpl	
Responsibilities: <ul style="list-style-type: none">It is an interfaceCreates a method to save students into the databaseCreates a method to get a list of students from the database	Collaborators: <ul style="list-style-type: none">studentstudentServiceImplstudentRepositorystudentController

Class Name: studentServiceImpl	
Parent Classes (if any): studentService Subclasses (if any): None	
Responsibilities: <ul style="list-style-type: none">Implements the methods in the created in the studentService class by overriding themSaves the results from these methods into the student repository	Collaborators: <ul style="list-style-type: none">studentServicestudentServiceImplstudentRepositorystudentController

Class Name: studentController	
Parent Classes (if any): None Subclasses (if any): None	
Responsibilities: <ul style="list-style-type: none">Allows access of data to local hostCan add to database through local hostCan view database through local host	Collaborators: <ul style="list-style-type: none">studentServicestudentServiceImplstudentRepositorystudent

Class Name: professorRepository	
Parent Classes (if any): JpaRepository Subclasses (if any): None	
Responsibilities: <ul style="list-style-type: none">Manages data in the Spring Boot application	Collaborators: <ul style="list-style-type: none">professorServiceprofessorServiceImplprofessorprofessorController

Class Name: professor	
Parent Classes (if any): None Subclasses (if any): None	
Responsibilities: <ul style="list-style-type: none">Creates all of the variables for the database.Creates all of the setter and getter methods for these variables	Collaborators: <ul style="list-style-type: none">professorServiceprofessorServiceImplprofessorRepositoryprofessorController

Class Name: professorService	
Parent Classes (if any): None Subclasses (if any): professorServiceImpl	
Responsibilities: <ul style="list-style-type: none">It is an interfaceCreates a method to save professors into the databaseCreates a method to get a list of professors from the database	Collaborators: <ul style="list-style-type: none">professorprofessorServiceImplprofessorRepositoryprofessorController

Class Name: professorServiceImpl	
Parent Classes (if any): professorService Subclasses (if any): None	
Responsibilities: <ul style="list-style-type: none">Implements the methods in the created in the professorService class by overriding themSaves the results from these methods into the advisor repository	Collaborators: <ul style="list-style-type: none">professorServiceprofessorServiceImplprofessorRepositoryprofessorController

Class Name: professorController	
Parent Classes (if any): None Subclasses (if any): None	
Responsibilities: <ul style="list-style-type: none">Allows access of data to local hostCan add to database through local hostCan view database through local host	Collaborators: <ul style="list-style-type: none">professorServiceprofessorServiceImplprofessorRepositoryprofessor

Class Name: advisorRepository	
Parent Classes (if any): JpaRepository Subclasses (if any): None	
Responsibilities: <ul style="list-style-type: none">Manages data in the Spring Boot application	Collaborators: <ul style="list-style-type: none">advisorServiceadvisorServiceImpladvisoradvisorController

Class Name: advisorService	
Parent Classes (if any): None Subclasses (if any): advisorServiceImpl	
Responsibilities: <ul style="list-style-type: none">It is an interfaceCreates a method to save advisors into the databaseCreates a method to get a list of advisor from the database	Collaborators: <ul style="list-style-type: none">advisoradvisorServiceImpladvisorRepositoryadvisorController

Class Name: advisor	
Parent Classes (if any): None Subclasses (if any): None	
Responsibilities: <ul style="list-style-type: none">Creates all of the variables for the database.Creates all of the setter and getter methods for these variables	Collaborators: <ul style="list-style-type: none">advisorServiceadvisorServiceImpladvisorRepositoryadvisorController

Class Name: advisorServiceImpl	
Parent Classes (if any): advisorService Subclasses (if any): None	
Responsibilities: <ul style="list-style-type: none">Implements the methods in the created in the advisorService class by overriding themSaves the results from these methods into the advisor repository	Collaborators: <ul style="list-style-type: none">advisorServiceadvisorServiceImpladvisorRepositoryadvisorController

Class Name: advisorController	
Parent Classes (if any): None Subclasses (if any): None	
Responsibilities: <ul style="list-style-type: none">Allows access of data to local hostCan add to database through local hostCan view database through local host	Collaborators: <ul style="list-style-type: none">advisorServiceadvisorServiceImpladvisorRepositoryadvisor

Class Name: courseRepository	
Parent Classes (if any): JpaRepository Subclasses (if any): None	
Responsibilities: <ul style="list-style-type: none">Manages data in the Spring Boot application	Collaborators: <ul style="list-style-type: none">courseServicecourseServiceImplcoursecourseController

Class Name: course	
Parent Classes (if any): None Subclasses (if any): None	
Responsibilities: <ul style="list-style-type: none">Creates all of the variables for the database.Creates all of the setter and getter methods for these variables	Collaborators: <ul style="list-style-type: none">courseServicecourseServiceImplcourseRepositorycourseController

Class Name: courseService	
Parent Classes (if any): None Subclasses (if any): courseServiceImpl	
Responsibilities: <ul style="list-style-type: none">It is an interfaceCreates a method to save course into the databaseCreates a method to get a list of course from the database	Collaborators: <ul style="list-style-type: none">coursecourseServiceImplcourseRepositorycourseController

Class Name: courseServiceImpl	
Parent Classes (if any): courseService Subclasses (if any): None	
Responsibilities: <ul style="list-style-type: none">Implements the methods in the created in the courseService class by overriding themSaves the results from these methods into the course repository	Collaborators: <ul style="list-style-type: none">courseServicecourseServiceImplcourseRepositorycourseController

Class Name: courseController	
Parent Classes (if any): None Subclasses (if any): None	
Responsibilities: <ul style="list-style-type: none">Allows access of data to local hostCan add to database through local hostCan view database through local host	Collaborators: <ul style="list-style-type: none">courseServicecourseServiceImplcourseRepositorycourse

Class Name: DropCourse

Parent Classes (if any): None

Subclasses (if any): None

Responsibilities:

- Allows students to drop courses from their current course selection.
- Once 'Drop' is clicked, the course is no longer visible on the page.

Collaborators:

- Drop courses is linked to the sidebar menu.
- linked to App.js
- React router handles link connections.

ClassName: Sidebar

Parent Class (if any): None

Subclasses (if any): None

Responsibilites:

- Provides a navigation menu with links such as "Search Courses, "Drop Courses", "Your Progress", " View Schedule",
- Displays user's profile with an avatar, name, student number. Also has a button to view personal profile.
- Has a functional sign out button.

Collaborators:

- The Sidebar links to the Search Courses page, redirecting the user
- React Router to handle navigation links

ClassName: Search Courses

Parent Class (if any): none

Subclasses (if any): none

Responsibilites:

- Provides a page with dropdown menus to filter sessions and departments
- Provides a search bar to further filter through courses based on the selected department
- Displays the list of courses dynamically

Collaborators:

- MUI for styling, dropdown, search bar, and table components
- Backend API for course data

ClassName: Student Profile

Parent Class (if any): None

Subclasses (if any): None

Responsibilites:

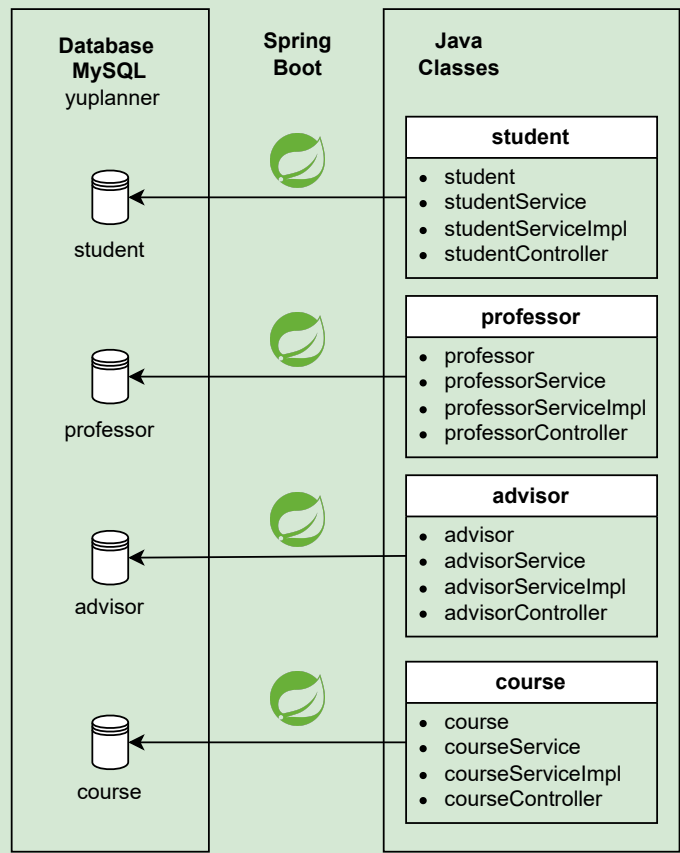
- Provides personal profile of the student
- Allows navigation to the personal profile page

Collaborators:

- Backend API for student details

System Design Architecture

Backend



Frontend

