



Phase One: College Course Enrollment System



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Top Requirements

Functional

- A university must have at least one admin account. (Accounts)
- The admin can edit a section's schedule, edit a section's capacity, enroll or drop a student, and delete an existing course or section. The system should issue a warning when an admin performs any actions that may affect a student's schedule. (Accounts)
- Courses can be searched via course prefix, course number, name/subject, date of week, and instructor. (Courses)

Top Requirements (cont.)

Functional

- If a section is full and is later changed to have a smaller capacity, exceeded students will be put on the waitlist. Existing students on the waitlist may get dropped if the waitlist ends up over capacity.
- If a section is full and the waitlist size is not met, future students will be put on the waitlist. Once a spot is available, the waitlist will roll over on a FIFO basis. (Waitlist)
- The server must prevent the client from completing a transaction if the client data is stale.
- The system must check for any prerequisite cycles before adding or editing a course prerequisites. (Prerequisites)

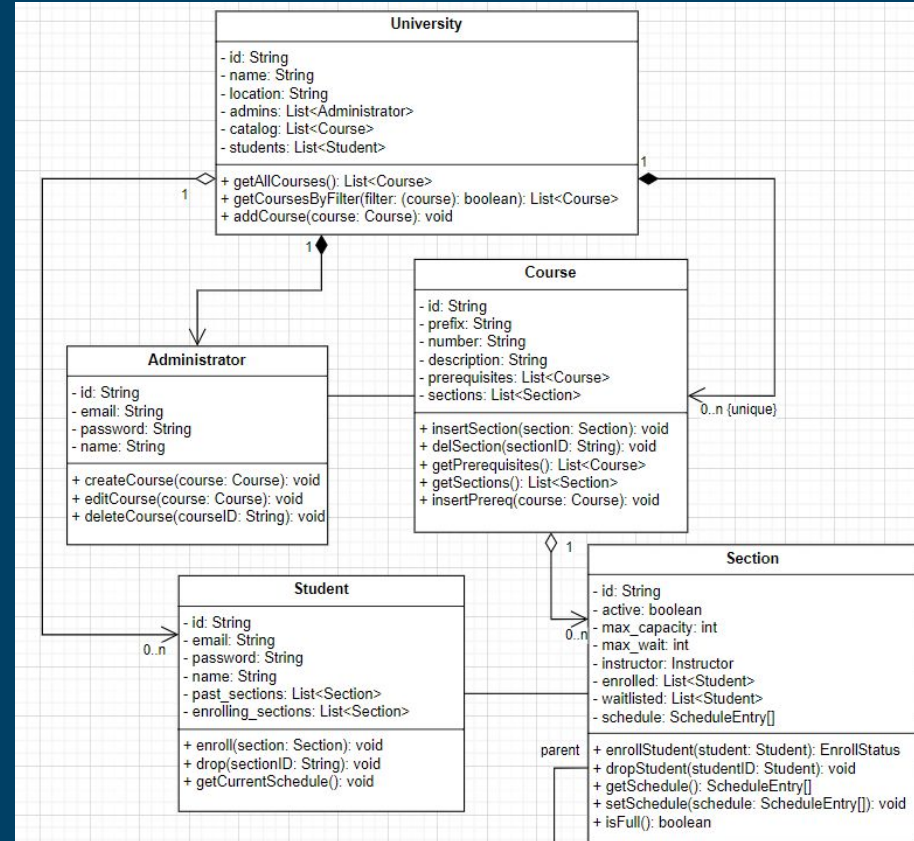
Top Requirements (cont.)

Non-Functional

- A student must log in to their own account to access any enrollment information. (Security)
- The system doesn't save most information aside from data used to initially launch. (Security and Data Collection)
- The system must be able to function across various operating systems such as Windows, macOS, and Linux with the appropriate JRE installed. (System Requirements)
- The system will respond to queries within three seconds. (System Requirements)

Top Class Candidates

<> University <> Course <>
<> Administrator <> Student <>
<> Section <>



Links

- GitHub repository:
<https://github.com/MikeJollie2707/CS401-College-Enrollment>