

Boundary Objects

1. Login Page:

- This is the first page that users will encounter when they want to access your multi-university information directory.
- The login page should require users to enter their username and password, and possibly additional authentication factors such as two-factor authentication.
- The login page should be designed with security in mind to prevent unauthorized access to the system.

2. Student Profile:

- Once a student has successfully logged in, they will be directed to their profile page.
- This page should contain information about the student, including their personal details (name, contact information, etc.), academic information (enrollment status, program of study, GPA, etc.), and any other relevant information such as extracurricular activities or honors and awards.

3. Faculty Profile:

- The faculty profile is similar to the student profile but is intended for faculty members.
- The faculty profile should contain information about the faculty member, including their personal details (name, contact information, etc.), academic information (department, rank, courses taught, research interests, etc.), and any other relevant information such as publications or grants.

4. Admin Profile:

- The admin profile is intended for administrators who have access to the back-end of the system.
- This profile should allow the administrator to manage user accounts, update system settings, and perform other administrative tasks such as generating reports or running backups.

5. Faculty Details:

- This page should contain information about each faculty member at the university, including their name, contact information, academic background, research interests, publications, and any other relevant information.
- The faculty details page should be searchable so that users can easily find faculty members based on their research interests or other criteria.

6. University Page:

- The university page should provide an overview of the university, including its history, mission statement, academic programs, campus locations, and any other relevant information.
- This page should also include links to the various departments and programs offered by the university, as well as any news or events happening on campus.

Entity Objects

1. **Student Information:** This object represents the details associated with a student in the directory, including their personal and academic information.
2. **Faculty Information:** This object represents the details associated with a faculty member in the directory, including their personal and professional information.
3. **University Information:** This object represents the details associated with a university in the directory, including basic information about the institution such as its name, location, and mission statement.
4. **University Files:** This object represents the files associated with a university in the directory, such as photos, or other documents that may be useful for students or faculty to access.

Control Objects

1. **Authentication Controller:** This object is responsible for managing user authentication and access control. It ensures that only authorized users can access the system by verifying user credentials and managing authentication tokens. The Authentication Controller may also manage other security-related tasks such as password resets or two-factor authentication.
2. **Professor Enrollment Controller:** The "Professor Enrollment" controller object plays a crucial role in ensuring the accuracy and completeness of the faculty information in the directory. By verifying the information provided by faculty members and managing the storage and retrieval of their profiles, it helps to ensure that the directory provides users with reliable and up-to-date information about the faculty members at the university.
3. **Faculty Search Controller:** This object is responsible for managing searches for faculty members in the directory. It allows users to search for faculty members based on various criteria such as their name, department, research interests, or teaching

experience. The Faculty Search Controller may also provide tools for users to narrow their search results and view detailed information about individual faculty members.

4. **University Information Controller:** This object is responsible for managing the information related to the university in the directory. It may handle tasks such as updating basic university information, adding new academic programs or departments, managing events and news updates, and providing links to other relevant resources. The Uni Info Controller may also provide tools for users to search and filter university information based on various criteria.