System Operations

Create User
- Takes in the data submitted when creating an account like username, password, role, institution and adds them to the users database table. Assigns that user a UID.

Delete User
- Removes a user from the database and their data. Doing this will also remove the reviews left by that user.
- **Notes**: Consider what will happen to their UID, best practice would be to free up their UID for when a new user is created.

Search University
- **Input:** String of the university
- Users select which university they wish to view, they type in the university's name and if it exists then it selects it and returns the ID for that university.

Select University
- Selects a University and displays its campuses and rooms and their ratings to the user.

Add Rating
- Insert a new review for a location with multiple category ratings
- Automatically update the database with the values

Edit Rating
- **Input**: Takes in the ID for the rating that the user wishes to edit.
- Modifies the rating and then updates that database when the user is done.

Delete Rating
- **Input**: ID of the rating the user wishes to delete.
- Users can delete one of their ratings from the database.

Search via Equipment tag
- Users should be able to filter for any type of campus location with certain equipment once a university is selected.

Search via Accessibility tag
- Users should be able to filter for any type of campus location with certain accessibility options once a university is selected.

Search via a Rating Attribute
- Users should be able to filter locations by wifi strength, noise, equipment quality, and cleanliness.

Search by Room Type
- Users should have the ability to search for a room type.

Search by Room Size
- Users should be able to search for a room by its size.

Search by Room Number
- Users should be able to search for a room by its room number.

Room Addition Request
- Users should be able to request for a room to be added into the database, the request

Admin System Operations

These are operations that only the admins are allowed to do.

Add University
- Adds a university into the database and updates it.

Remove University
- Completely removes a university and all its ratings, buildings, rooms, etc.

Edit University
- Modifies any of the attributes of a specified university and updates the database.

Add Campus location
- Adds a campus location to the database for a selected university.

Remove Campus Location
- Removes any type of campus location and its associated attributes.

Edit Campus Location
- Edits any type of campus location and its associated attributes.

Add, Remove, and Edit for Buildings

Add, Remove, and Edit for Non-Buildings

Add, Remove, and Edit for Room