CSCI 5448 - Semester Project (Library system)

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1. Project Summary

What is the high-level overview of your semester project?

- A library system providing users and administrators with the necessary functionality to borrow and manage a non trivial universe of materials that would be borrowed in a contemporary library.

What are you trying to accomplish?

- We are trying to build a web based client/server application that will provides multiple types of clients the ability to borrow a range of materials with the necessary administrative granularity to easily manage the system.

What will your system do when you are done?

- The system will allows users to borrow materials from the library.

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2. Project Requirement

Functional requirement:

1. The system should allow administrator to login.
2. The system should allow administrator to register a user.
3. The system should allow registered user to login into their account.
4. The system should allow administrator to add/delete/update materials.
5. The system should allow administrator/user to search for materials.
6. The system should allow registered user to select materials and add them to the user cart.
7. The system should allow registered user to return borrowed materials.
8. The system should allow administrator to define late return fee.

Non Functional requirement:

1. The system should be available 24/7
2. The system should be accessible.
3. The system should respond fast to requests.
4. The system should backed-up daily.
5. The system should handle errors.
6. The system should be scalable.

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3. Use Cases

4. Activity Diagram

5. Architecture Diagram

6. Data Storage

7. UI Mockups/Sketches

8. User Interactions (sequence diagram)

9. Class Diagram