# CS 255 System Design Document Template

## UML Diagrams

### UML Use Case Diagram

Diagram

Description automatically generated

### UML Activity Diagrams

Diagram

Description automatically generated

Diagram

Description automatically generated

### UML Sequence Diagram

Diagram

Description automatically generated with medium confidence

### UML Class Diagram

Diagram

Description automatically generated

## Technical Requirements

The system proposed should have a server that allows access from various users. Running on a cloud based server system would allow for access via multiple users and have easy to access and set up tools. The owner requested different roles. Include a client/user role, a secretary role, an IT Admin role, and an owner/admin role.

The cloud based system should be accessible through various operating systems through a web-based system. For security, we suggest storing the user data separate from the transactions using different storage.

The admin role will be in charge of updating creating and viewing user login, as well as removing users from the system. The IT admin role will oversee maintaining the system with updates (such as new user interface, bug fixes, and network maintenance). The secretary role will be in charge of updating and scheduling appointments. The user role will be allowed to access content such as tests, purchase packages and set up appointments. Any editing, creation of appointments, user login creation, and purchases will go to an audit log that will be viewable only by the owner/admin. This will sent to an XML document that can be viewable anywhere once downloaded from the cloud service.