# CS 255 System Design Document Template

**Ryan Erno**

**4/15/25**

## UML Diagrams

### UML Use Case Diagram

*A diagram of a system

AI-generated content may be incorrect.*

### UML Activity Diagrams

A diagram of a login activity

AI-generated content may be incorrect.

*A diagram with purple squares and black text

AI-generated content may be incorrect.*

### UML Sequence Diagram

A diagram of a login sequence

AI-generated content may be incorrect.

### UML Class Diagram

A diagram of a company

AI-generated content may be incorrect.

## Technical Requirements

* *It will need to be able to handle and accommodate the needs of many concurrent users.*
* *It will be a cloud-based system, utilizing the security and resources of a third party.*
* *Needs to store and verify account credentials(username, password) for security .*
* *Allow customers to schedule and reserve time slots for appointments.*
* *Needs to be cross compatible among various devices and browsers, accessible from anywhere.*
* *Staff (secretaries) must have the ability to manually schedule appointments on the user’s behalf.*
* *Must have the ability to support different access levels among administration.*
* *Account passwords must be able to be reset either by the IT officer or user.*
* *The system must be capable of managing regular updates of data from the DMV*
* *Must maintain a mutable system of packages that can be altered by the CEO.*
* *Must be able to track any and all user activities and changes to data.*
* *Capable of being used offline with limited abilities.*