# CS 255 System Design Document

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## 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

### UML Class Diagram

A diagram of a flowchart

Description automatically generated with low confidence

## Technical Requirements

*[Based on the diagrams you have created, describe the technical requirements of your system. These requirements should address the required hardware, software, tools, and infrastructure necessary for your system design.]*

Hardware Requirements:

* Each user on the system will require a computer running Windows 7 at least to allow for compatibility of internet browser
  + Requires webcam
* To use mobile operations, smart phone required
  + Has camera
  + Has major OS (Android or iOS)f

Software Requirements:

* System accessible through internet browser, specific one not necessary
* Refreshes every 30 minutes
* Allows for forgot password
* Has login system
* Displays using given user interface
* Allows for authentication levels
* Has ‘create login’ option
* System can lock account
* Allows management of appointments
* Ability to process payments

Tools:

* MS Excel to view necessary reports
* Knowledge of AWS to assist maintenance
  + IT will be provided logins to the system
* Understanding of navigation app(s) to aid in finding customers
* Understanding of mobile app stores’ relative ToS
* Access to customers’ mobile calendars to plot appointments

Infrastructure:

* Operates on AWS to manage security and backups
* Operates using database services
* Office space with space for at least three desks: secretary, IT, and big boss
* Parking lot
* Multiple cars/drivers for multiple appointment windows
* Working knowledge of city to allow for pickup/dropoff