# CS 255 System Design Document Template

## UML Diagrams

### UML Use Case Diagram



### UML Activity Diagrams

*Use Case #1: Create Customer Online Account*

*Use Case #2: View Customer UI*

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### UML Sequence Diagram

The sequence diagram below is based on the “Create Customer Online Account” use case.

### UML Class Diagram

## Technical Requirements

The technical requirements of the system can be broken down by required hardware and software:

* Hardware:
  + Physical computer running the system.
  + Mobile device running the system.
  + Network’s modem.
* Software:
  + Cloud system that is used to back up and secure the system.
  + Internet connection to update the system every 30 seconds to provide the most up-to-date data for users.
  + The latest version of the Windows operating system to run the system in the web-based environment.
  + The latest version of the Android and iOS operating systems to run the system in the mobile environment.
  + Application programming interface (API) that contains the Representational State Transfer (REST) software architect to secure the connection between the DriverPass system and external systems, such as the cloud system and DMV database.
  + Encryption and authentication to verify user log-in.