# CS 255 System Design Document Template

## UML Diagrams

### UML Use Case Diagram

*Chart, diagram, bubble chart

Description automatically generated*

### UML Activity Diagrams

LOGIN ACTIVITY DIAGRAM

*Diagram, schematic

Description automatically generated*

*Diagram

Description automatically generated*

### UML Sequence Diagram

*Chart, box and whisker chart

Description automatically generated*

### UML Class Diagram

Diagram

Description automatically generated

## Technical Requirements

For the DriverPass application, we will be using a cloud-based system. As of right now we haven’t yet decided which, but we will either go with AWS (Amazon Web Services) or Microsoft Azure, both of which would supply everything needed to run a successful program. With the help of one of these services, DriverPass will not have to do much in-house security or database maintenance. Nor will they need to have in-house hardware for storage. And as the company grows, the web-based cloud service will grow dynamically along with it, always giving the space necessary. Things such as authentications from the users to the database can be handled with a REST API, and for the software itself, java seems rather appropriate, which works well with REST APIs. And with “any-time” (24Hour) access to the system for the client, this should be enough to get the system up and running.