# CS 255 System Design Document Template

This template lays out all the different sections that you need to complete for Project Two. Each section has guidance to prompt your thinking. You will need to continually reference the interview transcript as you work to make sure that you are addressing your client’s needs. There is no required length for the final document. Instead the goal is to complete each section based on what your client’s needs are. Remove this note when you are finished, and replace all bracketed text with the relevant information.

## UML Diagrams

### UML Use Case Diagram

*A picture containing diagram

Description automatically generated*

### UML Activity Diagrams

Diagram

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### UML Sequence Diagram

Diagram

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### UML Class Diagram

## Technical Requirements

The DriverPass system is very similar to a standard ecommerce system. The display or front-end application will make use of standard web development technologies including javascript, css and a responsive framework. The backend should be developed with industry standard languages like python and java and make use of existing frameworks to reduce development time. Data will be persisted using an opensource RDBMS like PostgreSQL to minimize licensing cost and deliver highly performant results. The web application will run on Linux host instances or containers in a public cloud like AWS or GCP. All servers will be load-balanced and autoscaled using native cloud technologies.