# CS 255 System Design

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## UML Diagrams

### UML Use Case Diagram

A screenshot of a computer screen

Description automatically generated

### UML Activity Diagrams A screenshot of a diagram Description automatically generated A diagram of a software development process Description automatically generated

### UML Sequence Diagram

A diagram of a company security system

Description automatically generated

### UML Class Diagram

A diagram of a software application

Description automatically generated with medium confidence

## Technical Requirements

In reference to the UML Class diagram above, we can see how every user account differentiates from one another. The IT has the authority to change user passwords, change their information, and access the backend of the website. The Customer has a front facing account so they can adjust only their account information, schedule, and view their status in correlation to their purchased package. The Owner only requested access to have the ability to download the data from the company’s logs for analysis. Along with the users we also have the classes created for the packages offered, driving lesson information, resource library access for specific packages to have access to better enrich thorough students, and training for tracking the non-driving training the company offers. These classes can all be referenced in the user Dashboard. Not described in this diagram are the views of each user as that has yet to be discussed, but by creating the classes for this, the data can be customized per user type in the future to optimize the dashboard configuration for each role. The external systems that would store this data would be provided in the form of a cloud database which would include all required security protocol that a company may need to be compliant with federal, state, and DMV specific regulations.