# CS 255 System Design Document Template

## UML Diagrams

### UML Use Case Diagram

*Diagram

Description automatically generated*

### UML Activity Diagrams

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### UML Sequence Diagram

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### UML Class Diagram

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## Technical Requirements

The hardware requirements for this system are at least a phone, tablet, laptop, or computer capable of visiting the DriverPass website. Obviously for those such devices to work we need to have some sort of electricity, and internet access.

The software needed for this system to work is an operating system. In a previous assignment I recommended windows for this system. It is easy to manage and has a lot of support if trouble shooting is needed. It is also widely used by many people, having a background knowledge of its functionality and abilities. The cloud would need to be secured and accessible. It should already have the backend work managed as well as the security so that the employees at DriverPass don’t have to manage either one. Lastly, there needs to be software that is capable for processing credit card payments for the packaged bought.

Tools needed for this system to be designed are a computer with internet connection. Having the internet connection allows all developers to work together and push each task they are working on to the main branch to be merged and create the finished product. In addition to that, a task management software, such as JIRA or Azure-DevOps, should be implemented and utilized to provide an efficient way of tracking progress and assigning tasks. It’s also important to note that a variation of any programming software will be needed to create this system.

Infrastructure that is necessary for this design is a building with power and parking to park all DriverPass owned vehicles. 10 DriverPass vehicles should also be purchased as stated in the transcript, if not already owned. The secretary and admin as well as other employees need to have internet access as well as a phone to accept incoming calls to create/ delete reservations for in-person driving training. The internet for the team should be of higher speed to provide the most efficient and reliable customer service to its customers.