# CS 255 System Design Document

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# 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

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### UML Activity Diagrams

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### UML Sequence Diagram

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### UML Class Diagram

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## Technical Requirements

In reviewing the diagrams above, we will need to determine our client’s system requirement tools, services and what equipment and components they will need for their technical requirements. The stakeholders at Drive pass had indicated that they do not their system to frequently be down for maintenance. They also indicated that they would prefer to utilize the service of a 3rd party cloud provider, in order to mitigate up front hardware costs. The use of a 3rd party could provider, such as Microsoft Azure or Amazon Web Services will provide the stake holders are DriverPass multiple benefits. One benefit is scalability. If DriverPass becomes more successful and serves many more customers, they would need to be able to scale up their operations. This could be costly if DriverPass were to utilize their own equipment, such as servers and data storage. A cloud based service could provide this scalability for DriverPass. Another benefit would be that updates could be done by the cloud service provider, which would prevent down time for updates and maintenance.

Additional items DriverPass would need for their operations would be a laptop computer for every employee, which would include Teachers, Administrators, and Management. Our IT department could provide employees laptops, and this would benefit DriverPass as a whole, because their IT department could ensure each laptop issued had the appropriate privileges, depending on the employee, and the correct minimum requirements and software. This will give our IT department a more easy and efficient way to ensure every employee starts out without any issues, and that issues down the road can easily be trouble shot.

Finally, DriverPass will need other equipment, such as vehicles for their testing portion of their lessons. TheStakeholders at DriverPass have indicated that they have 10 vehicles to date, and have met that requirement. DriverPass could scale this up, and obtain more vehicles if they see an increase in business.