# CS 255 System Design Document

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February 20, 2022

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CS 255 Systems Analysis and Design

## UML Diagrams

### UML Use Case Diagram



### UML Activity Diagrams





### UML Sequence Diagram



### UML Class Diagram



## Technical Requirements

Based on each of the UML diagrams I have created, there are specific technical requirements that would assist in building my system design. For hardware, it is important to have access to both mobile devices and computers for testing purposes to ensure the DriverPass system is functional across all devices. For additional requirements, Amazon Web Services will have most, if not all requirements necessary in terms of software, tools, and infrastructure. This includes access to databases to hold customers’ data for DriverPass and data management tools to keep the information as organized as possible (Simplilearn). In addition, AWS is not only low cost but offers other options such as infrastructures for websites that DriverPass wishes to implement for their system to be fully functional and designed as they wish (Amazon Web Services, Inc.). Overall, since DriverPass wishes to run over the cloud and to keep technical issues at a minimum, utilizing a platform like AWS would be one of the best options to implement the system’s designs.

**Reference**

Simplilearn. (2021, July 13). *Top 7 cloud database in 2021: transforming cloud computing.* <https://www.simplilearn.com/cloud-databases-across-the-globe-article>

Amazon Web Services, Inc. (n.d.). *About AWS.* <https://aws.amazon.com/about-aws/>