# CS 255 System Design Document Template

## UML Diagrams

### UML Use Case Diagram

*A diagram of a person's life cycle

Description automatically generated*

### UML Activity Diagrams

*A screenshot of a computer

Description automatically generated*

*A diagram of a company

Description automatically generated*

### UML Sequence Diagram

*A diagram of a person

Description automatically generated*

### UML Class Diagram

*A diagram of a computer program

Description automatically generated*

## Technical Requirements

* Hardware
  + Laptop
  + Desktop
  + Mobile Device
  + Keyboard
  + Credit Card reader
  + Wi-Fi Router/ Internet Access Points
  + Printer
* Software
  + Windows OS for security and abundance of tools available.
  + Run over a serverless cloud-based interface with RESTFUL APIs.
  + Software to communicate with DMV for updates.
  + Handle multiple users at one time.
  + Distinguish between and verify users based on username/email and case-sensitive password combinations.
  + Utilizes encryption for data sending, storage, and account access.
  + Generates tracking reports.
* Infrastructure
  + Cloud based serverless system for easier memory expansion and software adaptation.
  + Mobile friendly interface for both Android and IOS operating systems.
  + Alerts to admin of any system shutdowns or unusual activity.

References

*10.08\_Fragments - Loops*. (n.d.). www.youtube.com. Retrieved August 9, 2023, from <https://www.youtube.com/watch?v=PQn-jcPJIfc>

*CS 255 DriverPass Interview Transcript*. (n.d.). Retrieved August 9, 2023, from <https://learn.snhu.edu/content/enforced/1346961-CS-255-X6098-OL-TRAD-UG.23EW6/course_documents/CS%20255%20DriverPass%20Interview%20Transcript.pdf?_&d2lSessionVal=lxB6SnNNaGqMAETmRHIU0VaH3&ou=1346961>

Lucidchart. (2018). How to Make a UML Sequence Diagram [YouTube Video]. In *YouTube*. <https://www.youtube.com/watch?v=pCK6prSq8aw>

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