Nicholas Renna

Instructor: Gene Bryant

SNHU CS-255 System Analysis and Design

System Design Document: Project 2

# CS 255 System Design Document Template

## UML Diagrams

### UML Use Case Diagram

A diagram of a project

Description automatically generated

### UML Activity Diagrams

*A diagram of a project

Description automatically generated*

A diagram of a project

Description automatically generated

### UML Sequence Diagram

A screenshot of a computer

Description automatically generated

### UML Class Diagram

A diagram of a driverless vehicle

Description automatically generated

## Technical Requirements

*Hardware:*

* DriverPass staff computers (Windows laptops)
* Admin computer (Linux OS)
* Management Laptop for Owner (Windows laptop).
* Server computer for web hosting
* Server with large storage for employee and customer information saving.
* Media Storage to hold documents of application (documentation for application, warranties, contract information, and other information needed to store).

*Software:*

* Application Hosting for web-based applications
* Linux Operating System
* Cloud Environment
* Microsoft Office
* Square online payment services
* Security software for Anti-virus
* Security software Firewalls
* Security software to allow permissions and tracking of hardware and vehicles.

*Geographic Information*

* DriverPass Home-Office
* In-house server for sensitive records (employee and customer information) stored at DriverPass office.

*Tools needed to build the Application DriverPass*

* VS code to code web-based application
* Git for vision control software
* Jenkins to manage automation, build, and test the application.

References:

CompTia. Comptia.org. Cloud Maintenance 101: Checking the Pulse of Your Cloud Technology. [Cloud Maintenance 101 | Checking the Pulse of Your Cloud Technology | Cybersecurity | CompTIA](https://www.comptia.org/content/articles/cloud-maintenance-101-checking-the-pulse-of-your-cloud-technology)

RedHat. (2023). Linux for cloud computer Redhat.com. [Linux for cloud computing (redhat.com)](https://www.redhat.com/en/topics/linux/linux-for-cloud-computing#:~:text=Today%2C%20thanks%20in%20great%20part,features%2C%20there%20are%20many%20options.)

Lucidchart. (2023). Lucidchart.com. [UML Sequence Diagram Tutorial | Lucidchart](https://www.lucidchart.com/pages/uml-sequence-diagram)

Lucidchart. (2023). Lucidchart.com. [UML Activity Diagram Tutorial | Lucidchart](https://www.lucidchart.com/pages/uml-activity-diagram)