# Driver Pass System Design

## UML Diagrams

### UML Use Case Diagram

*A screenshot of a computer

Description automatically generated*

### UML Activity Diagrams

*A diagram of a company

Description automatically generated*

A diagram of a process

Description automatically generated

### UML Sequence Diagram

A screenshot of a computer

Description automatically generated

### UML Class Diagram

A diagram of a computer

Description automatically generated

## Technical Requirements

*Hardware Requirements*

* Cloud / Web servers to reduce technical burden on company and employees
* Database server(s) for storing data

*Software Requirements*

* Operating System: Linux or Windows for server hosting
* Database System: SQL / Relational Database (i.e., MySQL)
* Security: Common website certificates. HTTPS, SSL/TLS

*Tools*

* Cloud Hosting: AWS and Azure are the most common options
* IDE: Visual studio, visual studio code, etc.,
* Database Design: SSMS, MySQL Workbench, PGAdmin
* Version Control: Github, sourcetree, bitbucket

*Security Requirements*

* User role based authentication
* Data encryption during transfer (data held on cloud has options for encryption)
* Data backups can be handled by cloud hosting services. Redundancy across regions

*Other*

* Scalability as product grows
* Modular design for adding features as the product grows