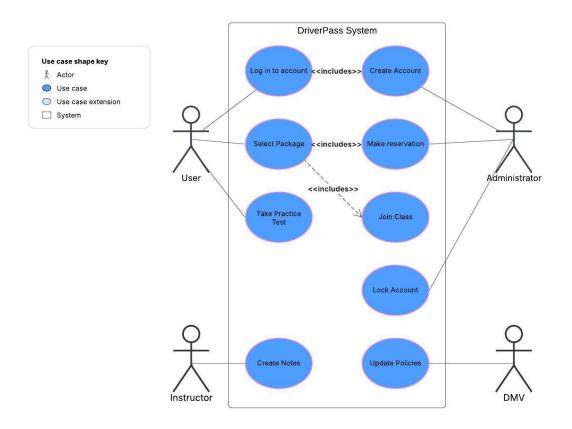


CS 255 System Design Document

UML Diagrams

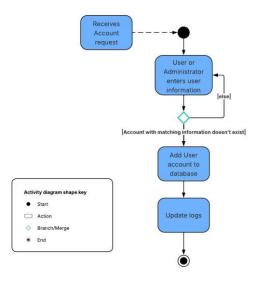
UML Use Case Diagram



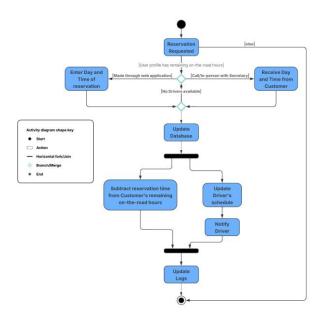


UML Activity Diagrams

Creating User Account



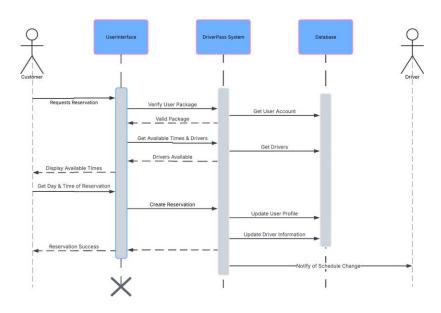
Making On-the-road Reservations



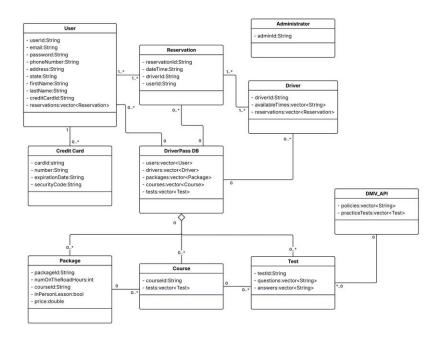


UML Sequence Diagram

Making On-the-road reservations (Customer)



UML Class Diagram







Technical Requirements

Hardware

- Large amounts of hard drive storage aren't necessary because the system operates
 on a cloud-based platform, but some will be needed for storing files related to
 testing and development like source code
- Devices for developing code

Software

- o IDE or other programming software for developing and testing the system's code
- Web-based clients for user and administrator interfaces
- Interface that allows drivers to leave comments on specific on-the-road sessions

Infrastructure

- While the DriverPass database can be stored on the cloud, its structure must be defined
 - User, Driver, Reservation, Test, Course, Package, and so on
- API for receiving and handling DMV updates
- Encryption and decryption strategies for securely storing sensitive user information like passwords and credit card details
- Security notifications and logs for tracking suspicious behavior
- Automatic updating of reservations times and statuses
- Version control like GitHub

Other

Cloud development license