# CS 255 System Design Document

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## UML Diagrams

### UML Use Case Diagram

DriverPass System

USER

PAYMENT SERVICE

ADMIN

DMV

INSTRUCTOR

USER LOGIN ACTIVITY DIAGRAM

### UML Activity Diagrams

USER IS REGISTERED

USERNAME AND PASSWORD

CORRECT?

NO

INCORRECT USERNAME OR PASSOWRD

YES

HOME PAGE

PACKAGE PURCHASE ACTIVITY DIAGRAM

USER HAS LOGGED IN

USERNAME AND PASSWORD

SELECTS AND PURCHASES PACKAGE

CHECK OUT

PAYMENT SENT

NO

PAYMENT ACCEPETED?

YES

PACKAGE IS PURCHASED

### UML Sequence Diagram

USER

AUTHENICATION

DATABASETABASE

LOGIN

USERNAME

VERIFICATION MATCHED

PASSWORD

VALIDATES INFORMATION

SELECT LOGIN

SEND USERS INFORMATION

SUCCESSFUL LOGIN

REDIRECT TO LOGIN

### UML Class Diagram

ADMINISTRATORS

USER

* - username:string
* - password:string
* - address:string
* - credCardInfo: long
* - username:string
* - password:string
* - role:string

VERIFICATION

* + verified

DRIVING LESSONS

FEEDBACK

PRACTICE TEST

* + testName: string
* + testScore: float
* +questions: dictionary
* -date:string
* -instructor:string
* -typeofvehicle:string
* +IntructorFeedback: string

PACKAGE PURCHASES

* +packageinfo:dictonary

## Technical Requirements

*Based On the function and non-functional requirements for the system we need the following technical requirements:*

* Diagram builder such as Lucid chart
* Scheduling tools such as Microsoft Outlook Calendar
* IT team consisting of 4 members.
* Scripting language: Python
* Linux machines for developers
* Applications for instructors