Southern New Hampshire University

CS 255 System Design Document Template

UML Diagrams

UML Use Case Diagram

DriverPass UML use case diagram
Marian | February 20, 2022

DriverPass System

Make Payment

Customer

Verify Password

Display Login Error

DriverPass Instructor

<<Include>> <<extend>>

Login <<extend>> Update Lessons

Schedule a Lesson

<<extend>>

DriverPass Admin

<<extend>>

Update DriverPass System

Create Account for Customer
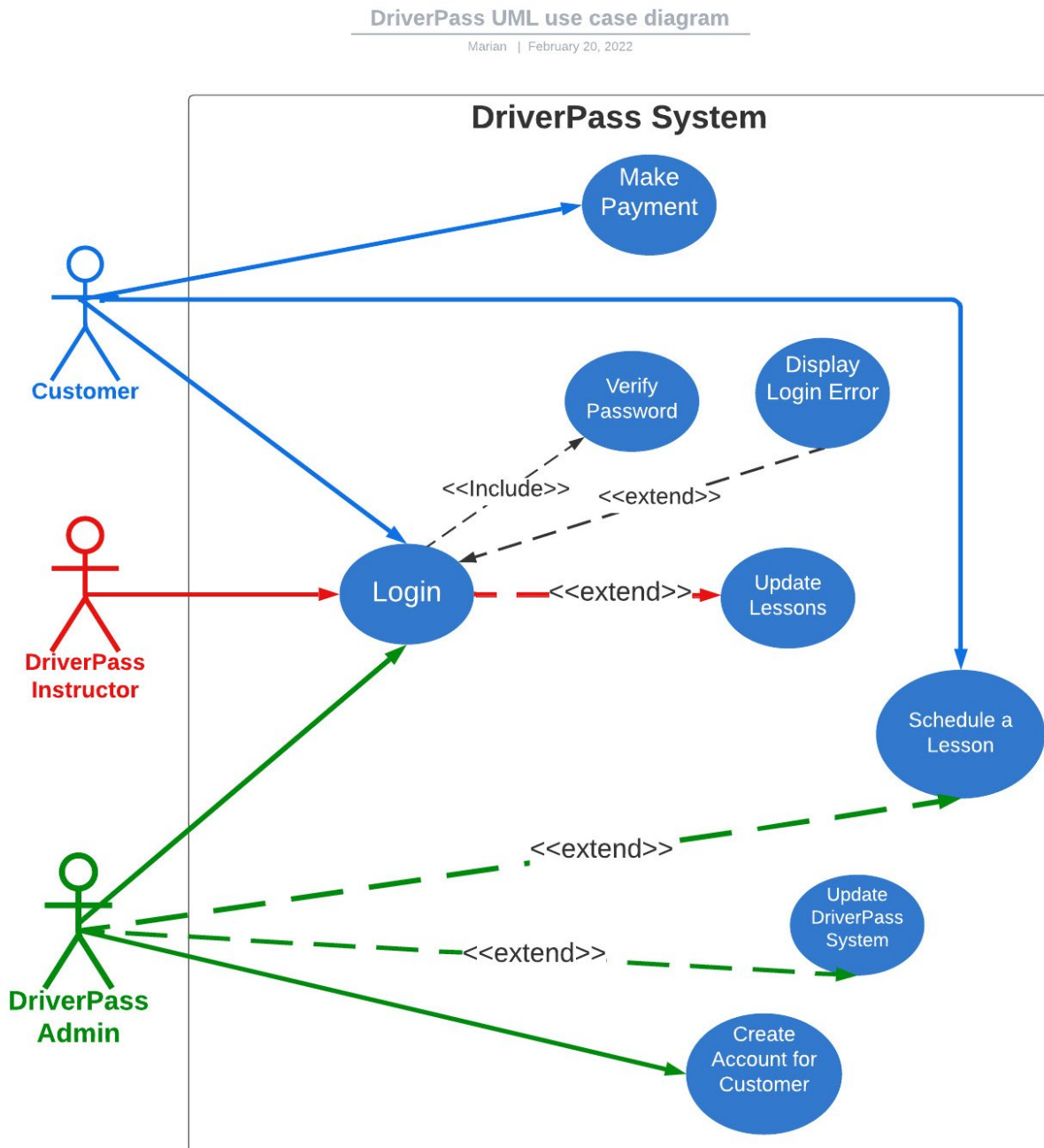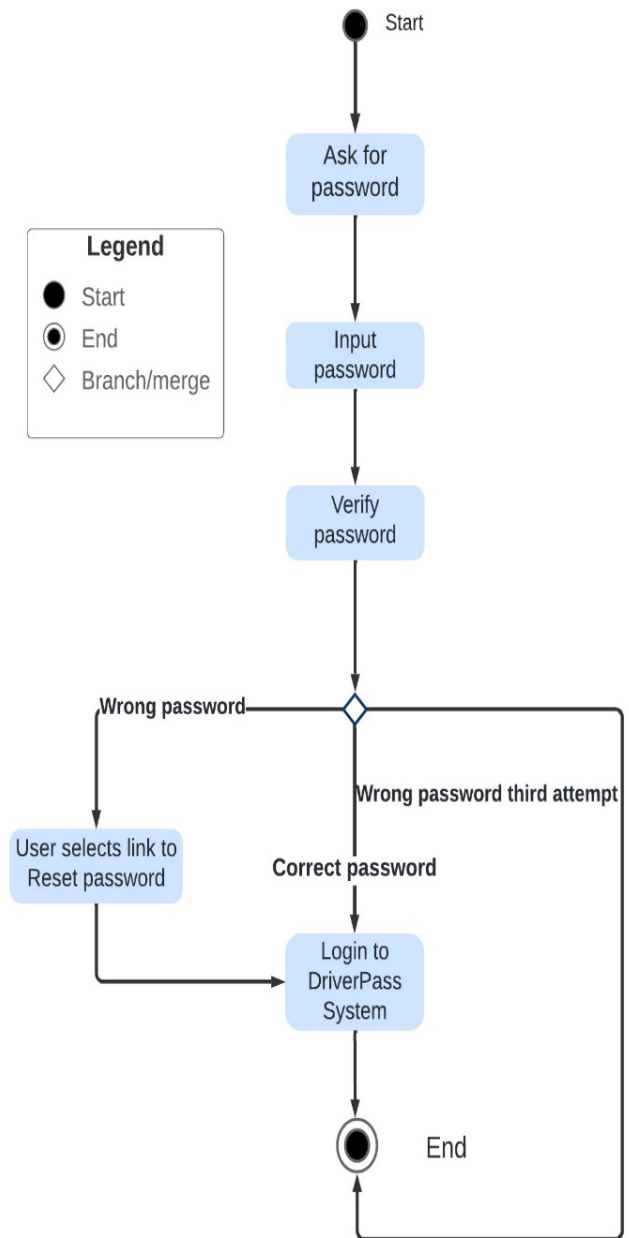
UML Activity Diagrams

DriverPass UML activity diagram for Lesson

Start

Login to
DriverPass
System

Legend
- ● Start
- ◉ End
- ◇ Branch/merge

Select
DriverPass
Package

Select Time /
Date to Schedule
Lesson

Requested Time / Date Unavailable

◇

Time and Date Selected is Available

User Pays for
Lesson

Lesson is
Scheduled

End

DriverPass UML activity diagram

Start

Ask for
password

Legend
- ● Start
- ◉ End
- ◇ Branch/merge

Input
password

Verify
password

◇

Wrong password

Wrong password third attempt

User selects link to
Reset password

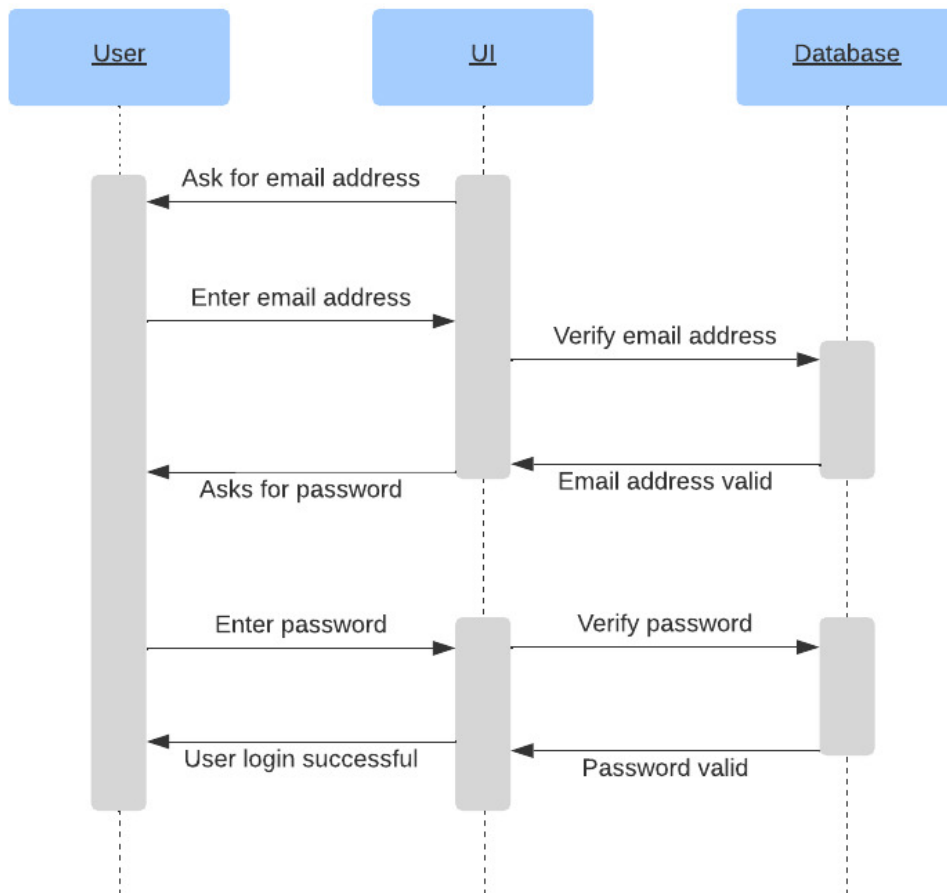**Correct password**

Login to
DriverPass
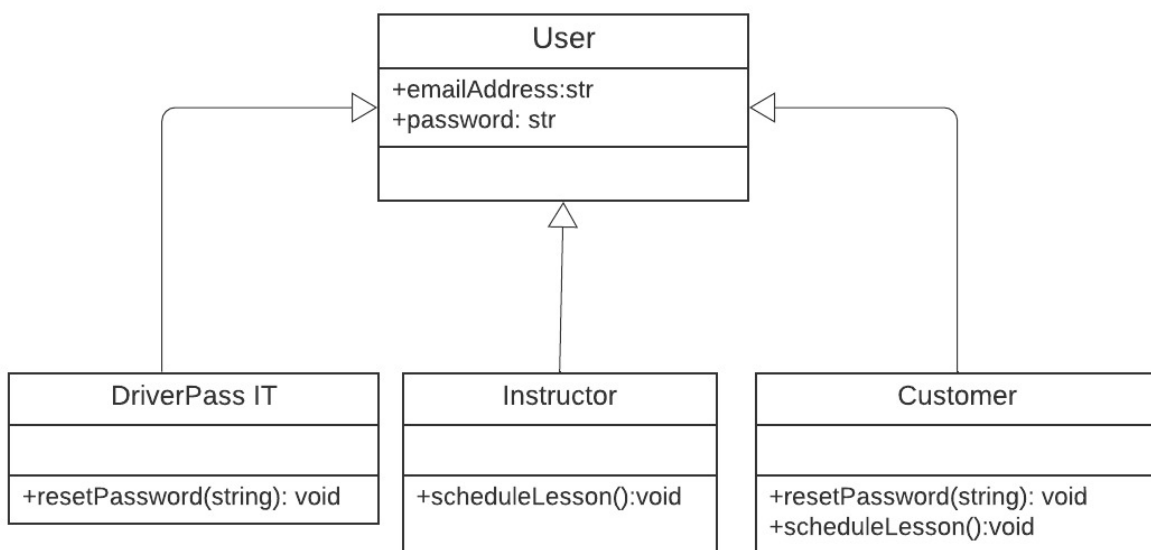System

End

UML Sequence Diagram

DriverPass UML sequence diagram

UML Class Diagram

DriverPass UML Class Diagram
Marian Farah

Technical Requirements

The environment for the DriverPass system will be web-based, so that it can be accessed

by customers online. The system back end will require an online database to store user

credentials and transactional data so that it can be accessed from anywhere. Encryption will be

used to secure the connections or the data exchange between the client and the server.

Encryption is part of common protocols to communicate securely with the website. Students

will be able to login to their accounts and customize their program by modifying their packages

by adding lessons, removing lessons based on their training needs. Employees of DriverPass will be able to view student progress reports and make appointments for students to take driving lessons. Instructors and other administrative staff of DriverPass will be able to grade student tests and provide notes, advice and guidance that the students can later view. Administrative and security staff of DriverPass should have the ability to add and remove student access to the student's DriverPass learning accounts.