CS 255 System Design Document Template
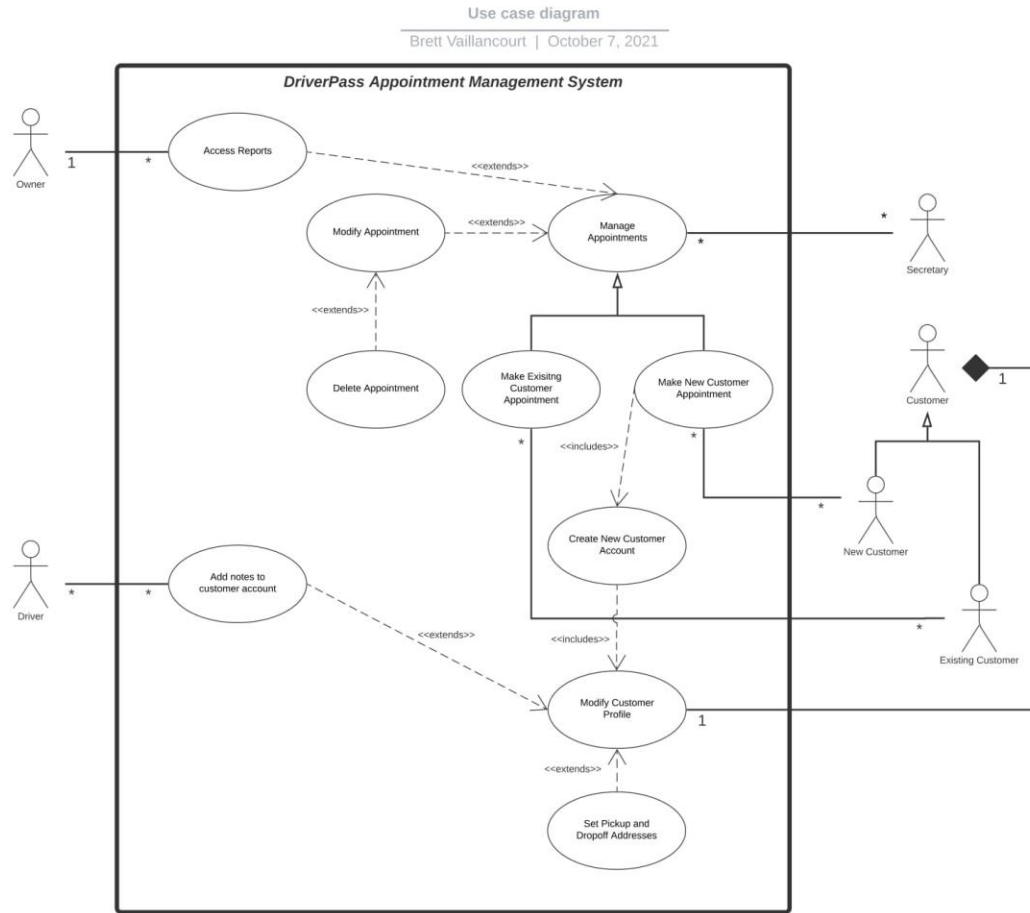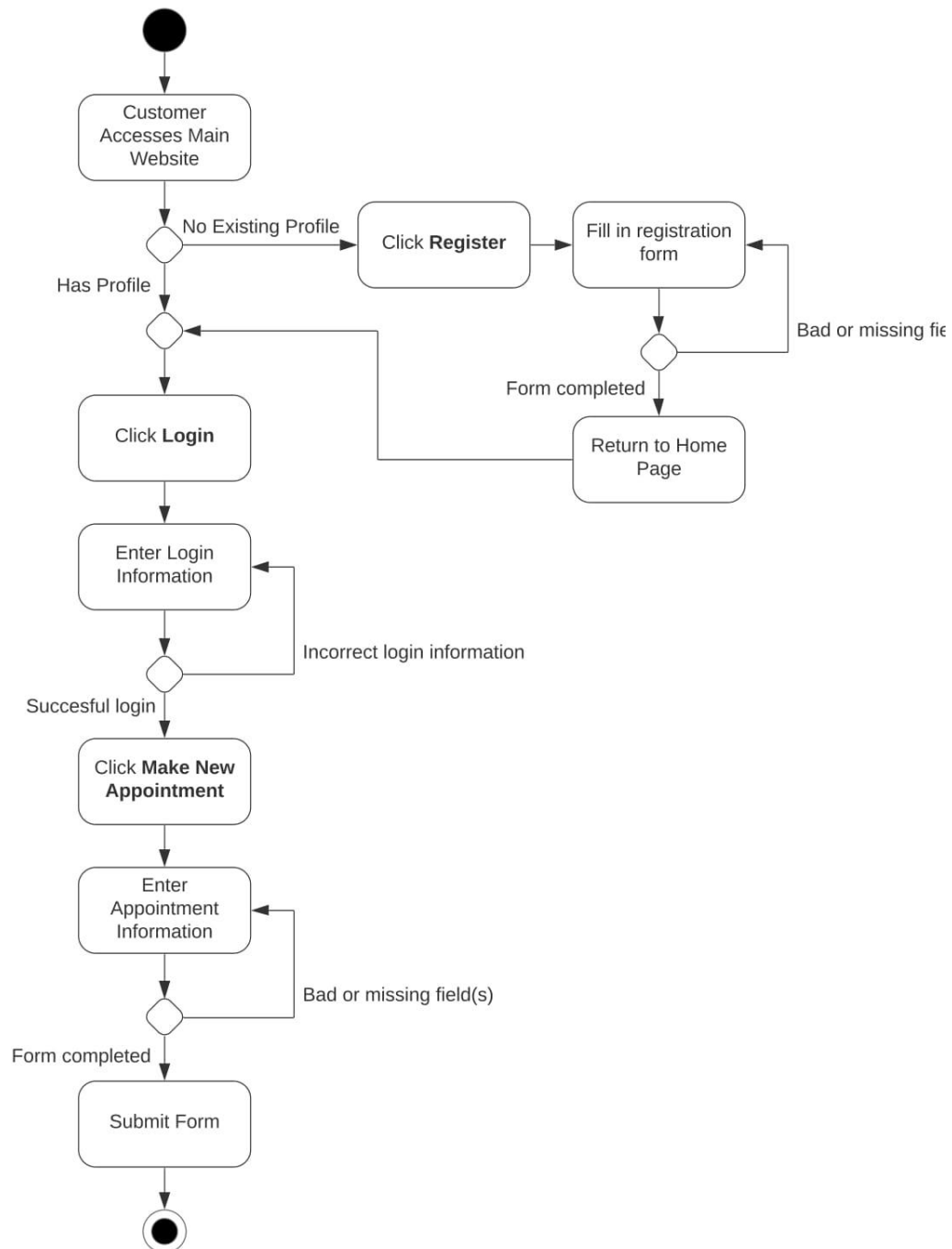
UML Diagrams
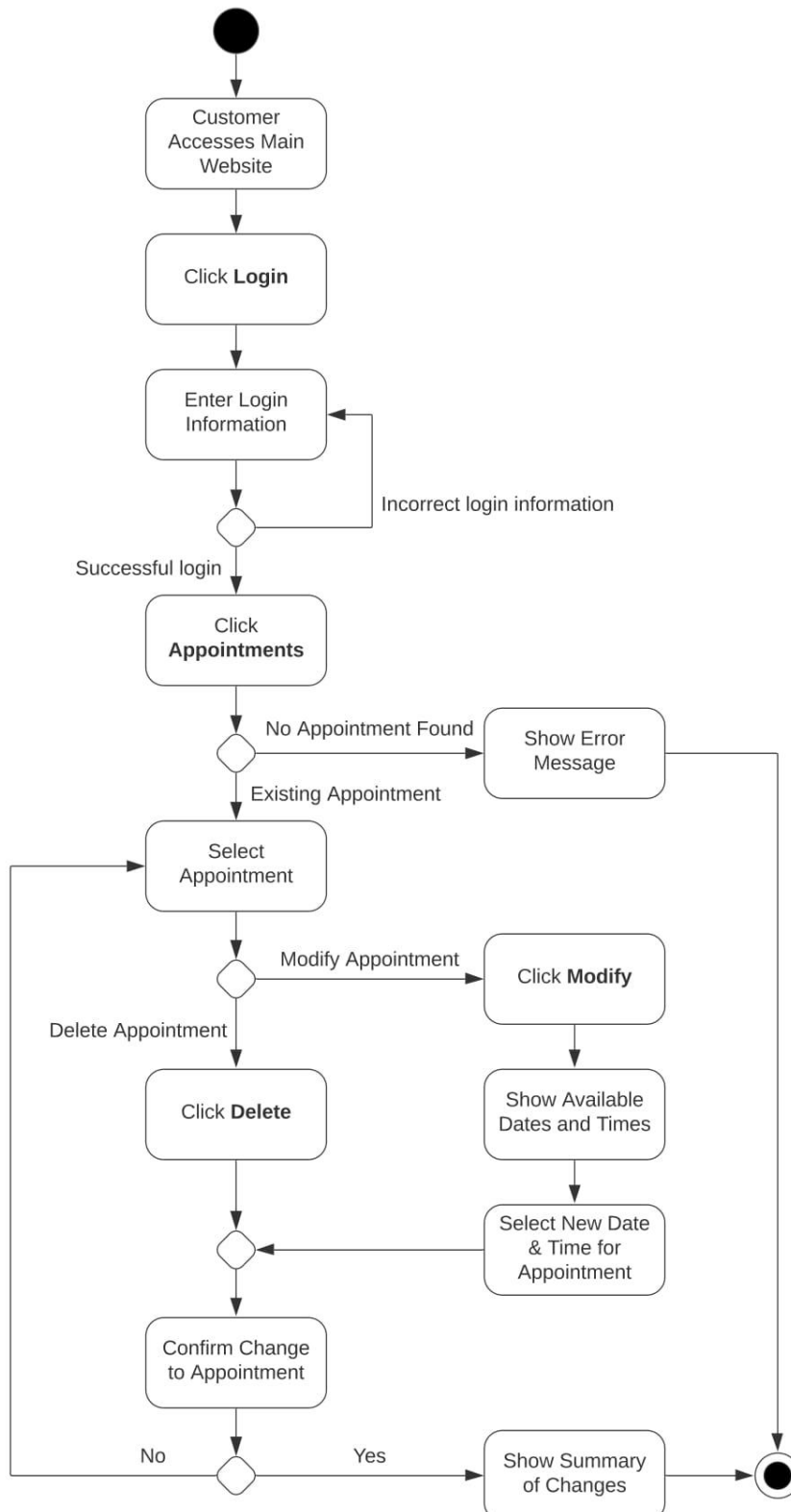
UML Use Case Diagram

UML Activity Diagrams

User Makes First Appointment

Brett Vaillancourt | October 24, 2021

- Customer Accesses Main Website
- No Existing Profile → Click **Register** → Fill in registration form
- Bad or missing field(s)
- Form completed → Return to Home Page
- Has Profile
- Click **Login**
- Enter Login Information
- Incorrect login information
- Succesful login
- Click **Make New Appointment**
- Enter Appointment Information
- Bad or missing field(s)
- Form completed
- Submit Form

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Southern New Hampshire University

User Changes Existing Appointment

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Customer Accesses Main Website

Click **Login**

Enter Login Information

Incorrect login information

Successful login

Click **Appointments**

No Appointment Found → Show Error Message

Existing Appointment

Select Appointment

Modify Appointment → Click **Modify**

Delete Appointment

Click **Delete**

Show Available Dates and Times

Select New Date & Time for Appointment

Confirm Change to Appointment

No   Yes → Show Summary of Changes

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UML Sequence Diagram

Sequence diagram
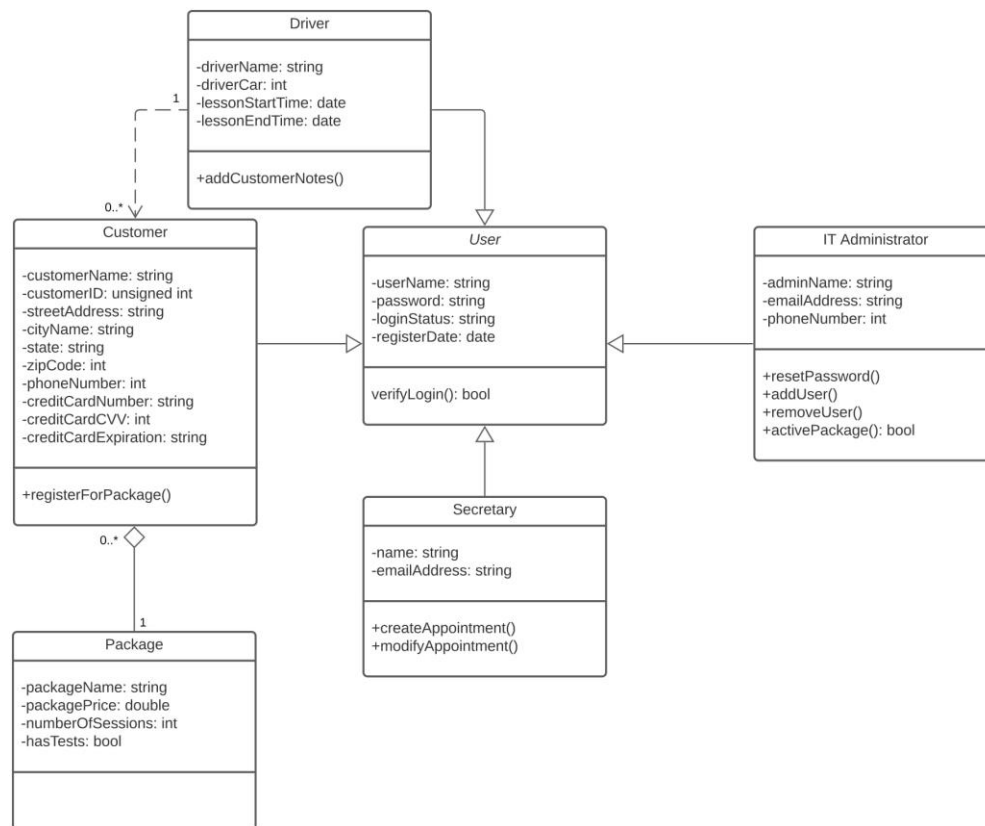Brett Vaillancourt | October 24, 2021

UML Class Diagram

Technical Requirements

The DriverPass system is intended to operate on the cloud and over the web; therefore, the hardware requirements need to be met by the hosting company as opposed to the IT staff for DriverPass. That said, the system chosen to host DriverPass should be able to accommodate a database for customer records, DMV policies and information, and online classroom and test materials. The system should also be able to handle a small to moderate number of concurrent users – at present there are about 13 DriverPass employees (consisting of the owner, the IT admin, a secretary, and ten drivers). There will also be a number of customers using the DriverPass system to register for packages and schedule reservations, and they can also review DMV policies on the website or take online classes and tests. The software should be able to handle basic operations such as allowing customers to do initial registrations and set appointments, reset their passwords, update their information, and contact DriverPass. There should also be options for the secretary to add or modify appointments, and the IT administrator should be able to help employees reset their passwords, change users, and deactivate packages. Other requirements for the system include 24/7 access, browser accessibility, secure passwords for accounts, regular security patches for the server, and an in-system method of communication available between DriverPass and customers.

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