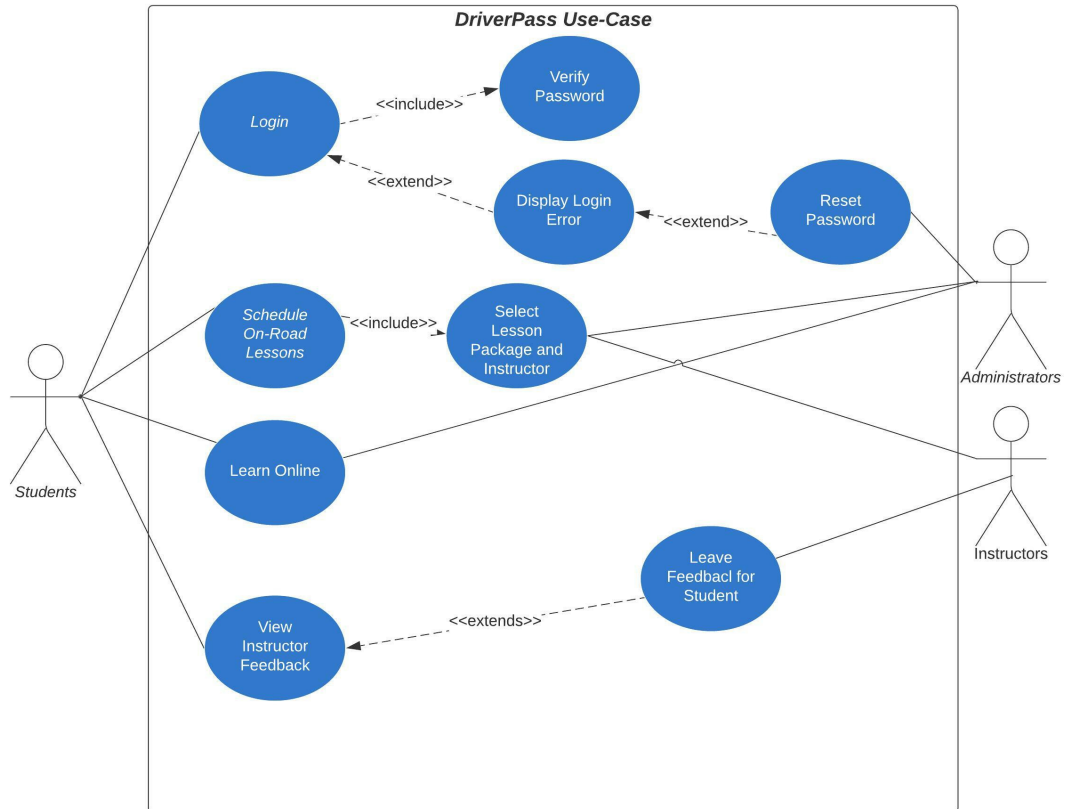


CS 255 System Design Document Template

Mark Webster

UML Diagrams

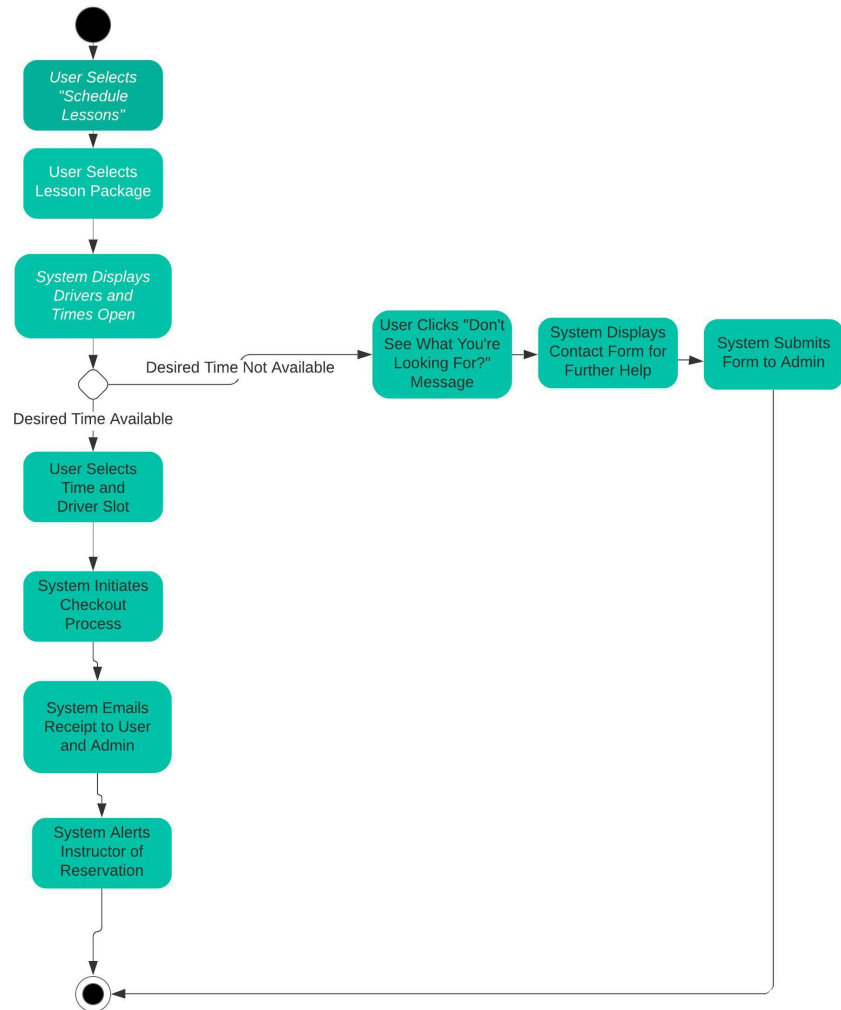
UML Use Case Diagram



UML Activity Diagrams

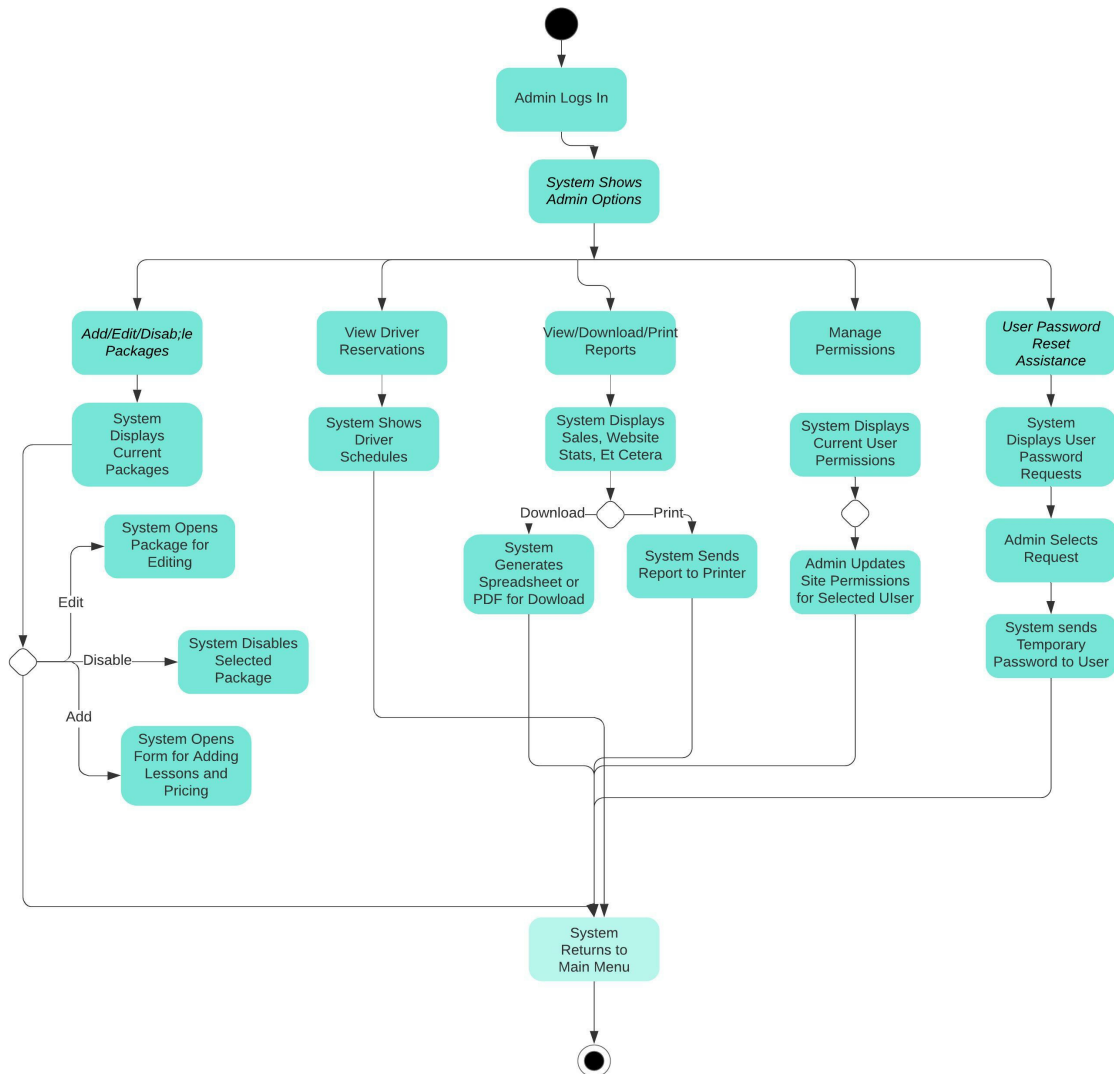
Activity diagram

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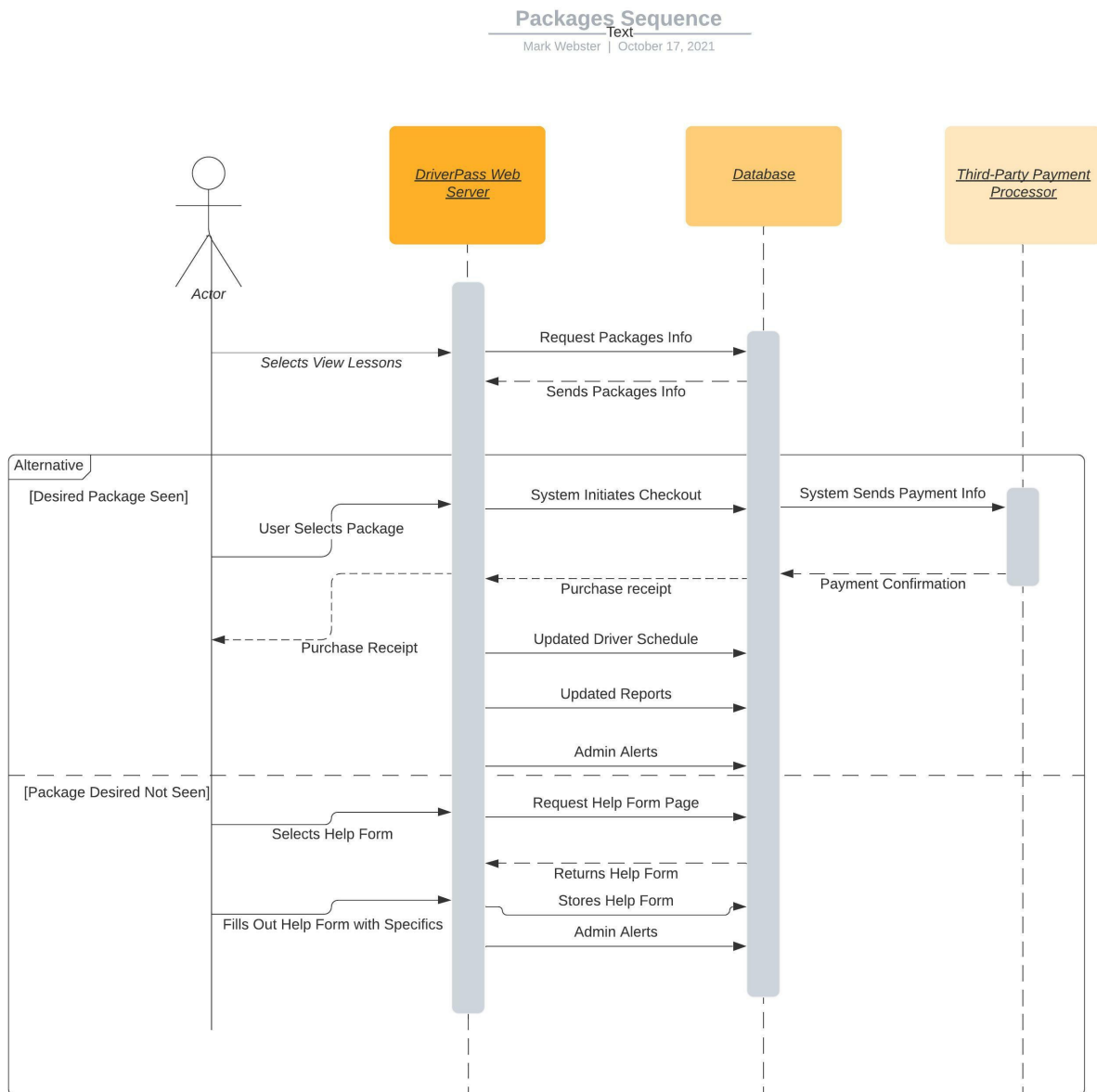


Admin Options

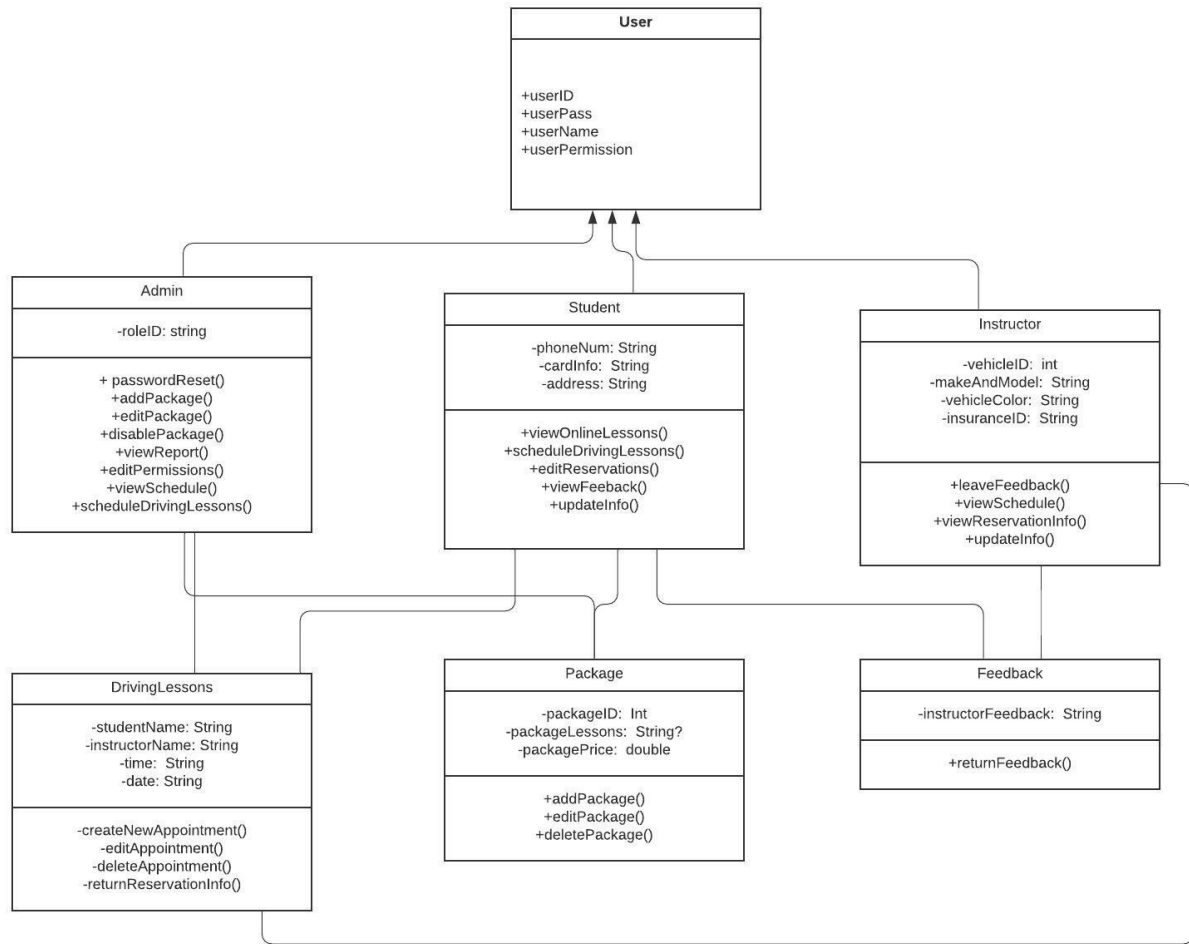
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UML Sequence Diagram



UML Class Diagram



Technical Requirements

The system will be web-based, most likely in the cloud. We will need an additional database to hold user records and our digital learning content. We will most likely be using APIs to communicate with the DMV and our third-party payment processor. In terms of the web interface, we expect the web app to run smoothly across a wide range of desktop and mobile browser platforms, with mobile optimization creating a seamless user experience regardless of the means of access. The site will be streamlined depending on the strength of the user internet connection accessing it. The system will be protected through encryption and we will protect against login brute forcing by limiting the number of unsuccessful logins a user can make, as well as implementing a 2FA login method immediately upon rollout.

In terms of the software, simple is sometimes king. While more functionality will be built out as time goes on, Launch Day features will include letting users schedule and pay for driving lessons and online learning content; instructors to view their upcoming reservations and leave post-lesson feedback for students; and administrators (the C-suite and IT) will oversee learning packages, login security, and user permissions. The web-app model is a great starting point for DriverPass. We will build a responsive, stable system to service clients' needs and keep students on the road learning in safety!