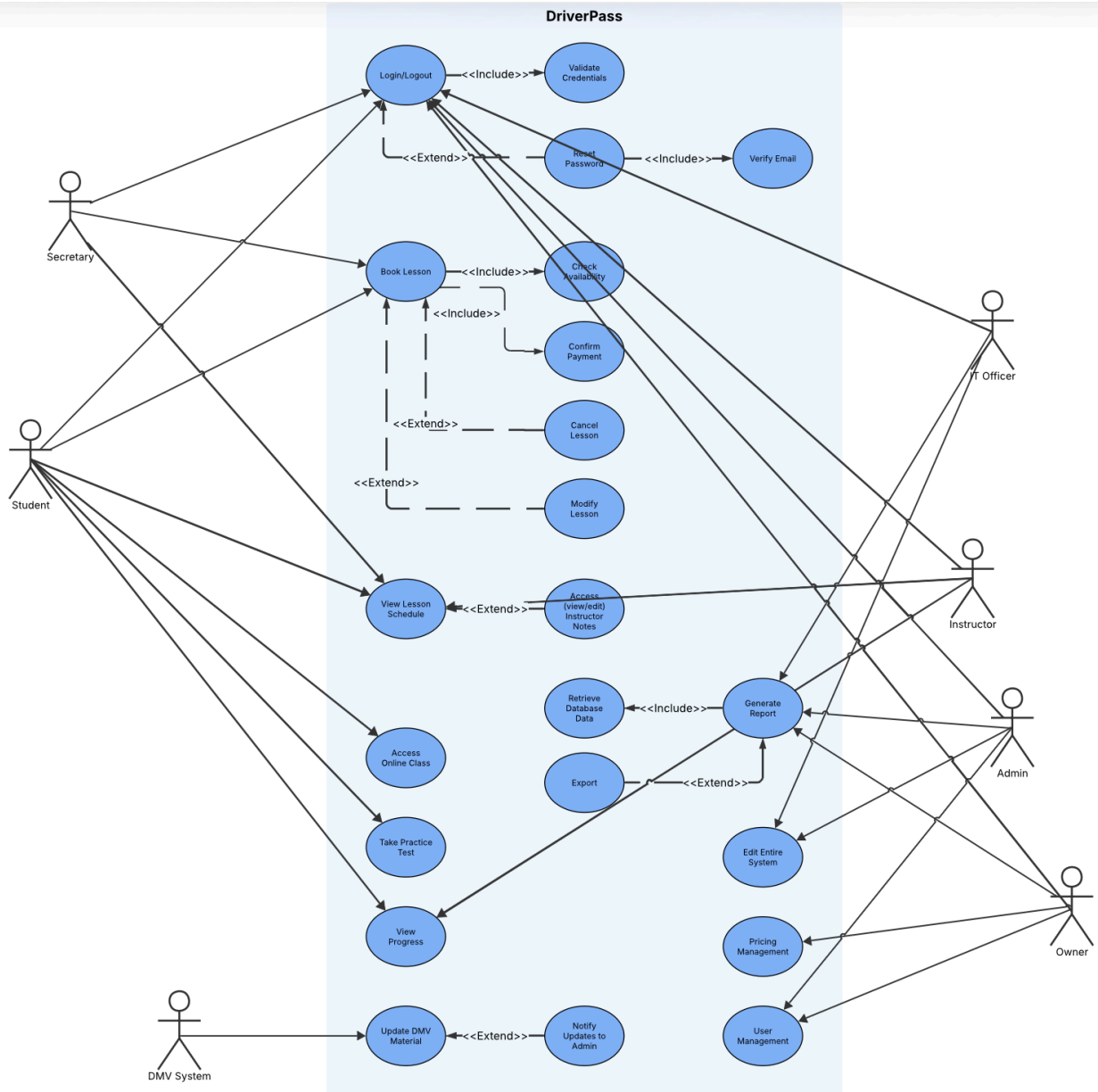


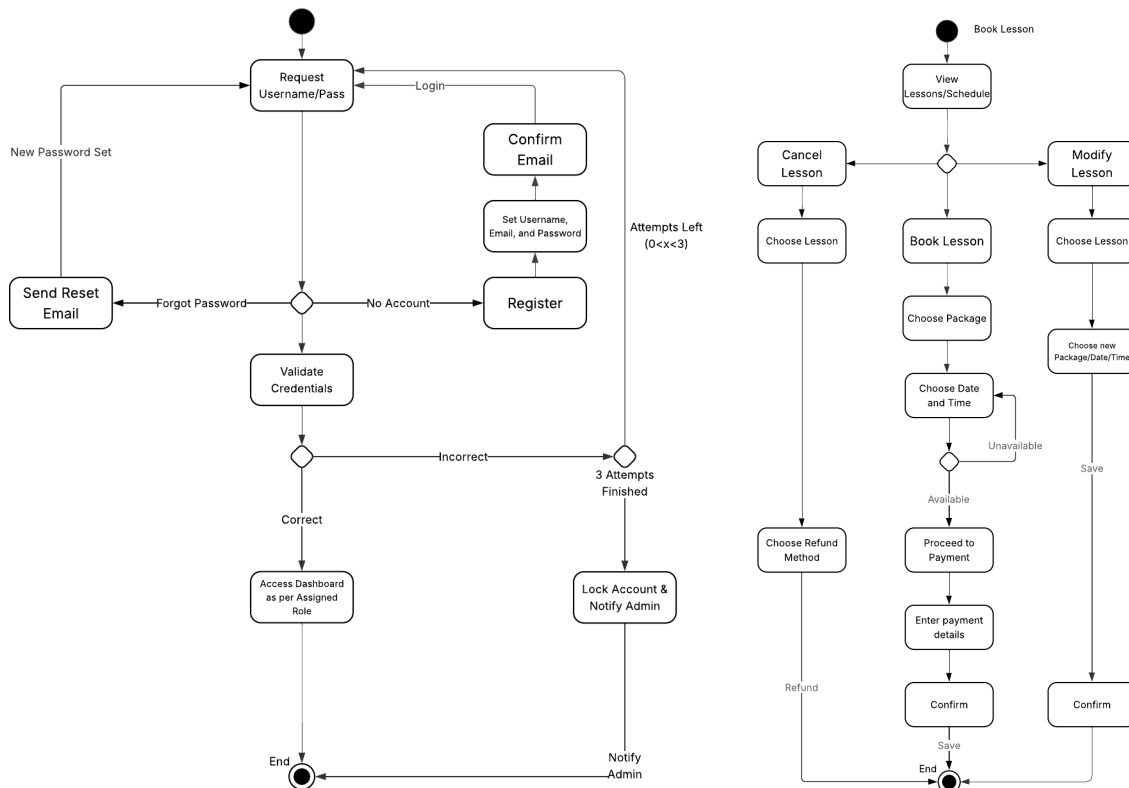
CS 255 System Design Document

UML Diagrams

UML Use Case Diagram

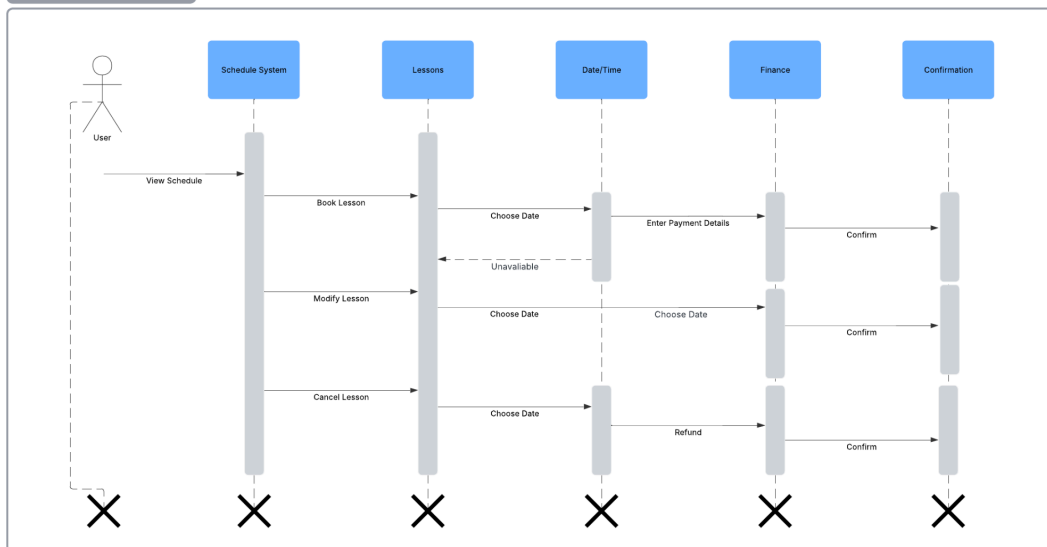


UML Activity Diagrams

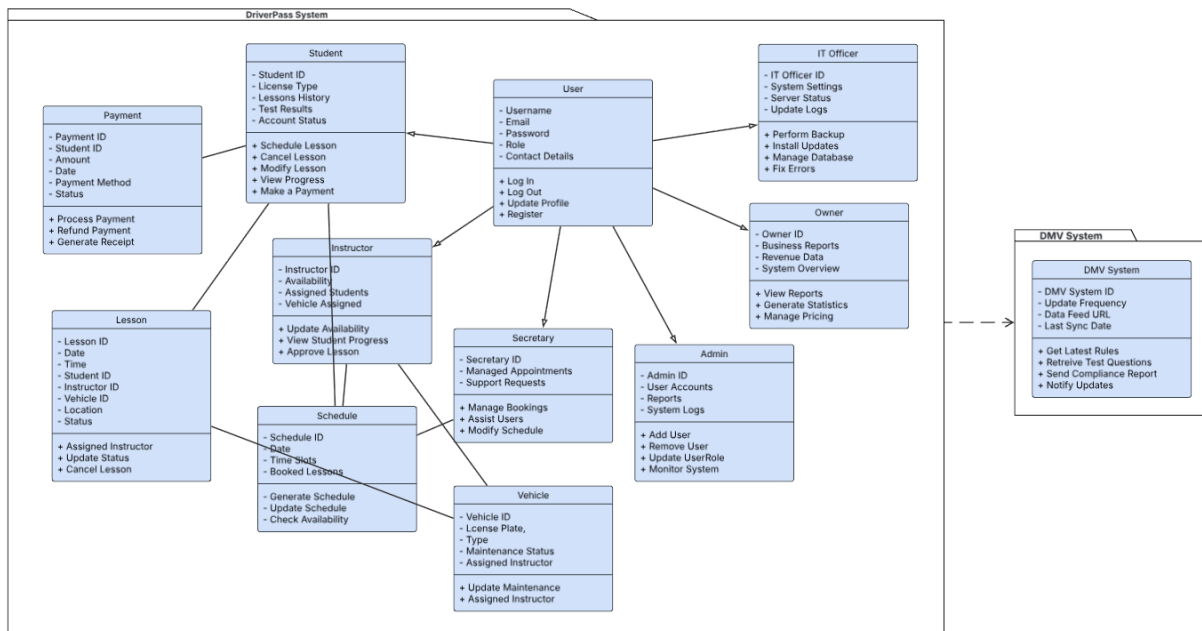


UML Sequence Diagram

Booking Class



UML Class Diagram



Technical Requirements

Technical requirements for the system include enough storage in the cloud to store all the information of different users and their associated data along with system and material data. The system also requires computers that are strong and stable enough to handle everything, especially during updates and implementation (This means large storage, strong cooling system, high RAM, CPU, and GPU). The Internet and power supply should be stable. Modern and widespread operating systems (Windows, MacOS, Android, iOS, Linux), web browsers (Chrome, Safari, FireFox, Edge or more), programming languages (C++, Python, Java or more), and IDEs (such as Visual Studio Code, Eclipse, PYCharm) should be used along with any necessary plugins/extras. For data export, a spreadsheet management tool such as Excel or Google Sheets may be used. For diagram creation, LucidCharts is ideal but is not restricted to this.