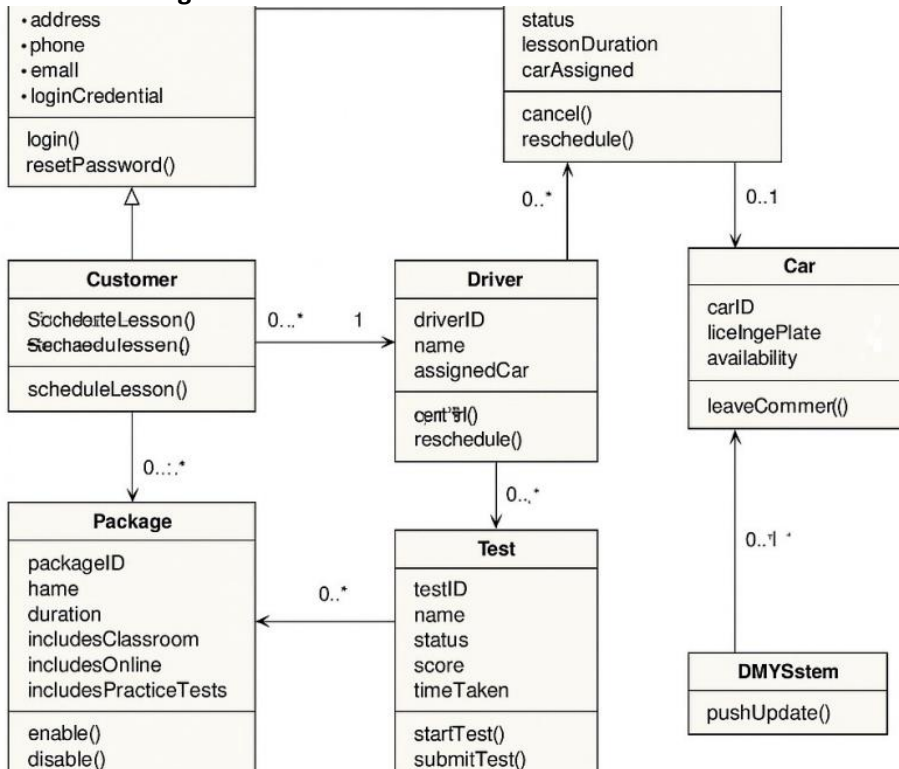


CS 255 System Design Document Template

This template lays out all the different sections that you need to complete for Project Two. Each section has guidance to prompt your thinking. You will need to continually reference the interview transcript as you work to make sure that you are addressing your client's needs. There is no required length for the final document. Instead the goal is to complete each section based on what your client's needs are. Remove this note when you are finished, and replace all bracketed text with the relevant information.

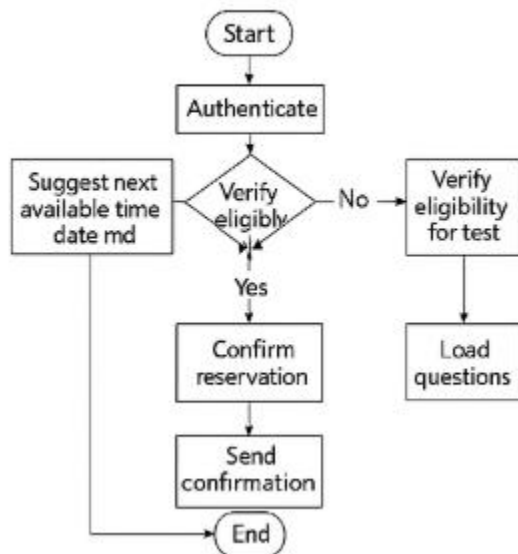
UML Diagrams

UML Use Case Diagram

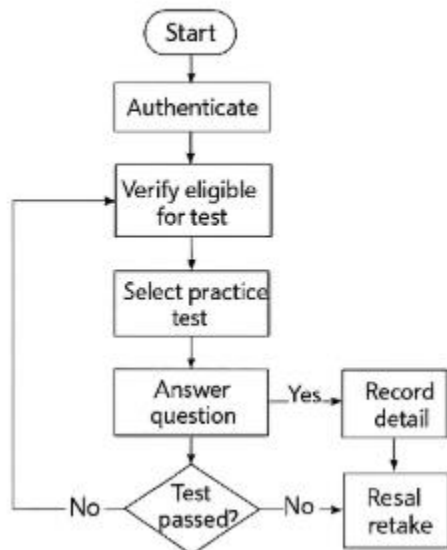


UML Activity Diagrams

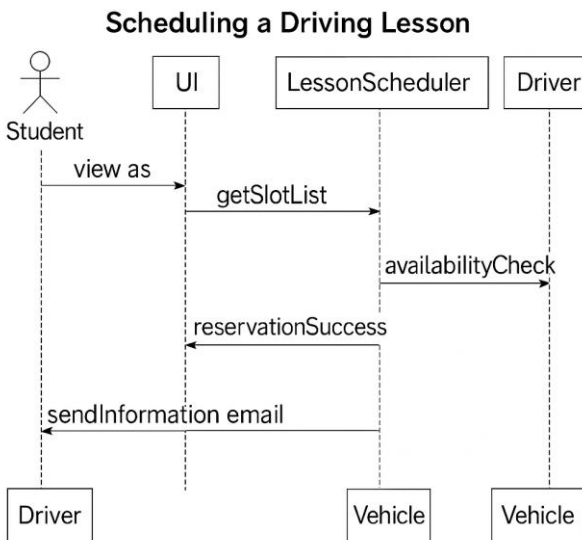
Student Schedules a Driving Lesson



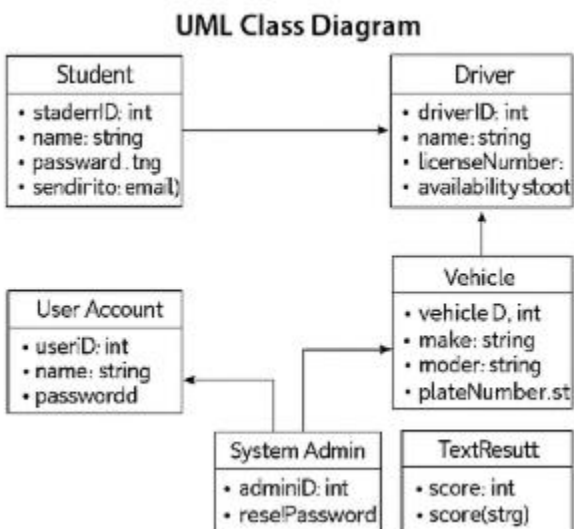
Student Takes an Online Practice Test



UML Sequence Diagram



UML Class Diagram



Technical Requirements

The DriverPass system needs a strong server to store the data and run the website. These servers must handle many users at once without slowing down. The office workers need computers to use the system. And the Customers can use computers, tablets, or phones with internet and a web browser. The servers will use linux software which will be a good option, and a database to store customer information, appointments, and test results. The system must track who changes information and when. The website will work on the devices and protect customer information with strong security. DriverPass will use cloud services instead of buying servers. The cloud company handles backups, security, and repairs. The system connects payment companies for credit cards and to the DMV for driving rule updates. It sends emails and texts to customers about appointments. The system can create reports and

share information safely. All customer information is heavily protected. Different users see different things, the owner sees everything, the IT person manages accounts, customers see only their information, and the secretary makes appointments. The system loads pages within three seconds and will handle five hundred people at once. It can grow with the business and support multiple locations. The system backs up data daily and can be restored within 4 hours if problems occur. It monitors itself and gets monthly security updates.