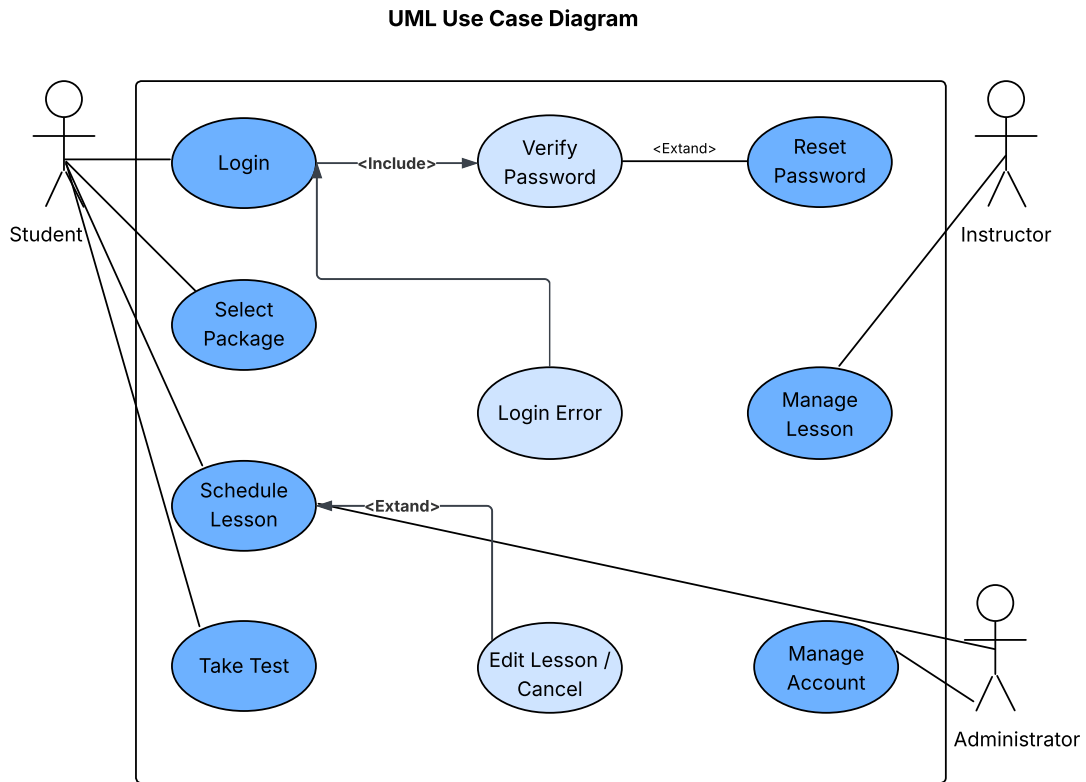


CS 255 System Design Document

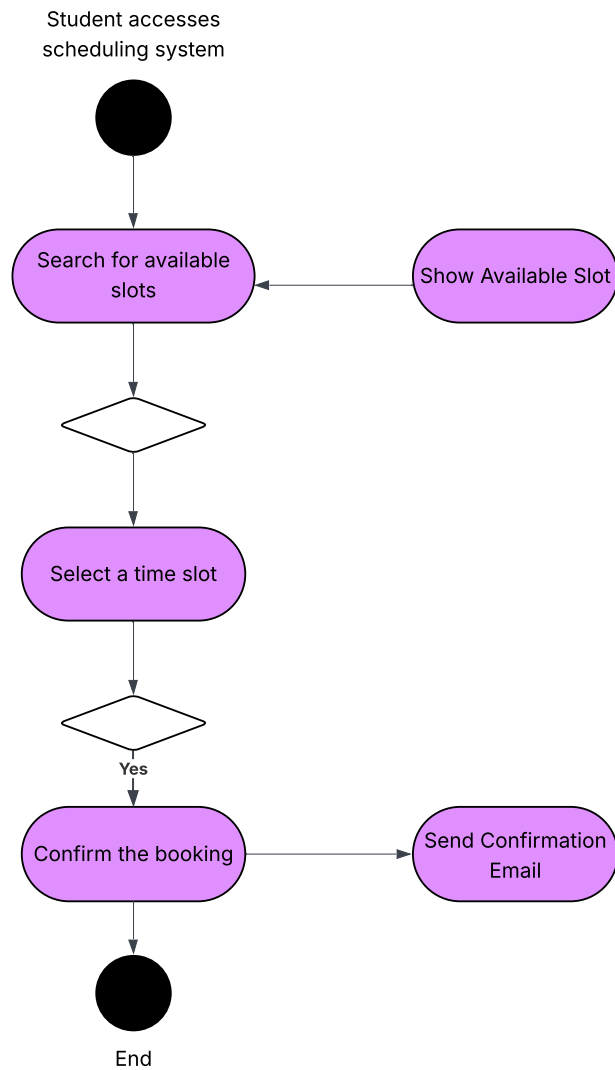
UML Diagrams

UML Use Case Diagram



UML Activity Diagrams

UML Activity Diagram



UML Sequence Diagram

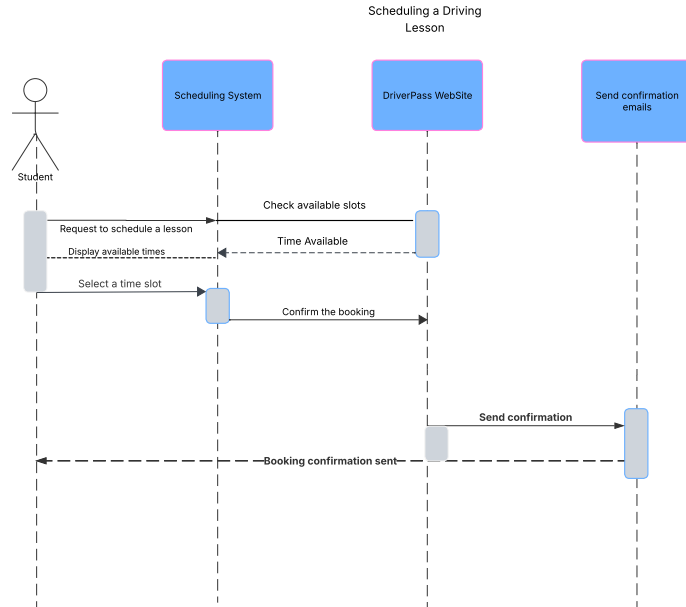
UML Sequence Diagram

Sequence diagrams

Create a sequence diagram to model the logic for a sophisticated procedure, function, or operation. Watch a basic tutorial and read more in this help center article.



Sequence diagram shapes



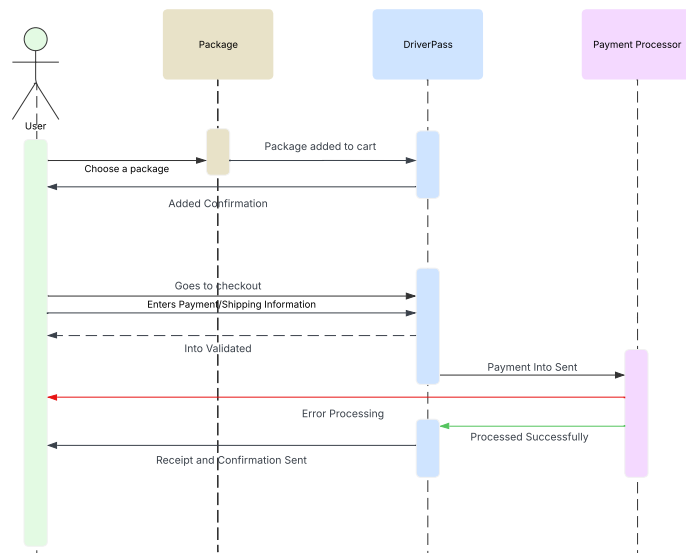
UML Sequence Diagram

Sequence diagrams

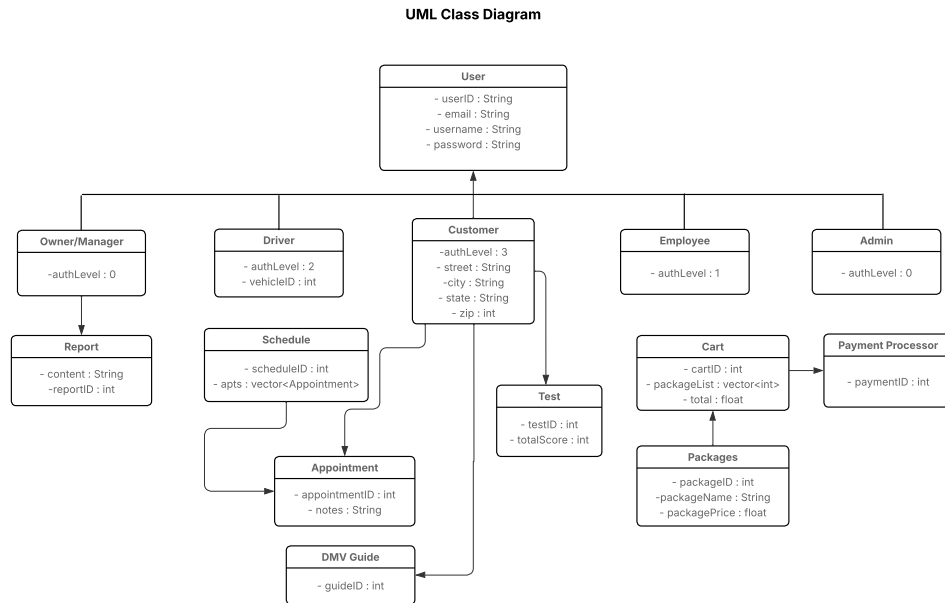
Create a sequence diagram to model the logic for a sophisticated procedure, function, or operation. Watch a basic tutorial and read more in this help center article.



Sequence diagram shapes



UML Class Diagram



Technical

Requirements

The class diagram for the DriverPass system highlights several technical requirements. The system will rely on a cloud-based server architecture to manage data related to students, instructors, lessons, packages, and staff. A relational database such as MySQL will be used to handle the complex relationships between these entities. The application will feature a web-based interface, with JavaScript powering the front end and Python or Java used for back-end development.

Development will utilize tools like Visual Studio Code and Git for source control. Additionally, the system will require a dependable cloud infrastructure that supports scalable storage, regular data backups, and strong security measures to ensure high availability and data integrity. This configuration will enable efficient management of all system interactions and information within DriverPass.