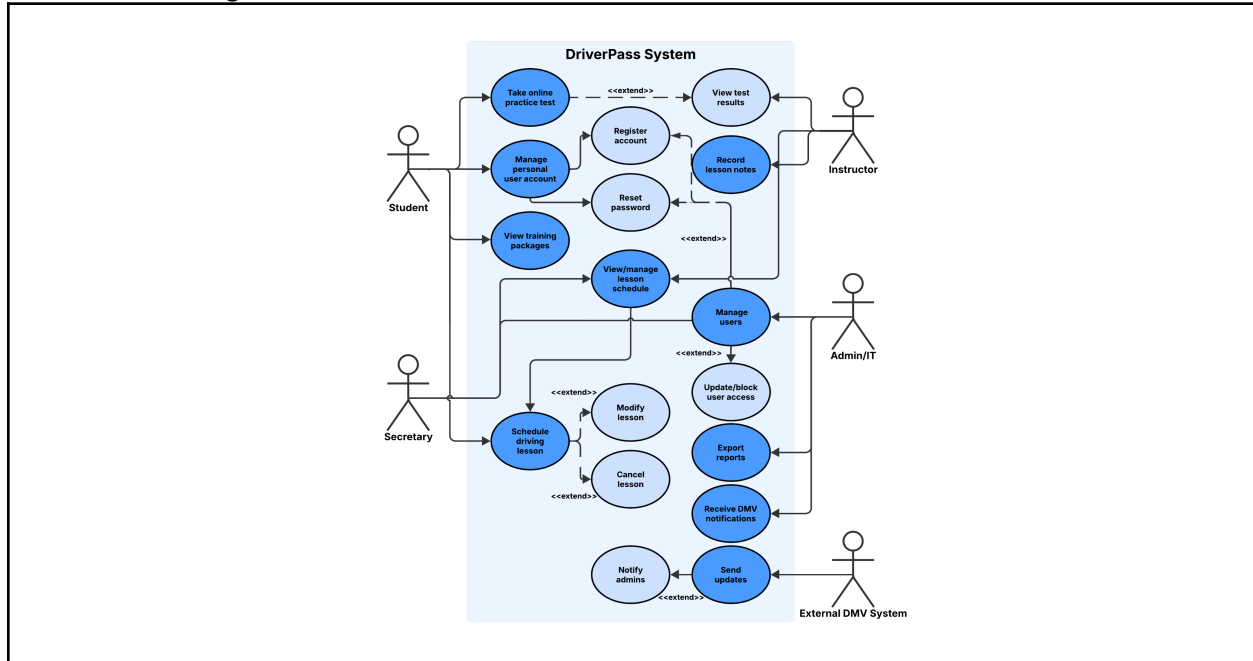


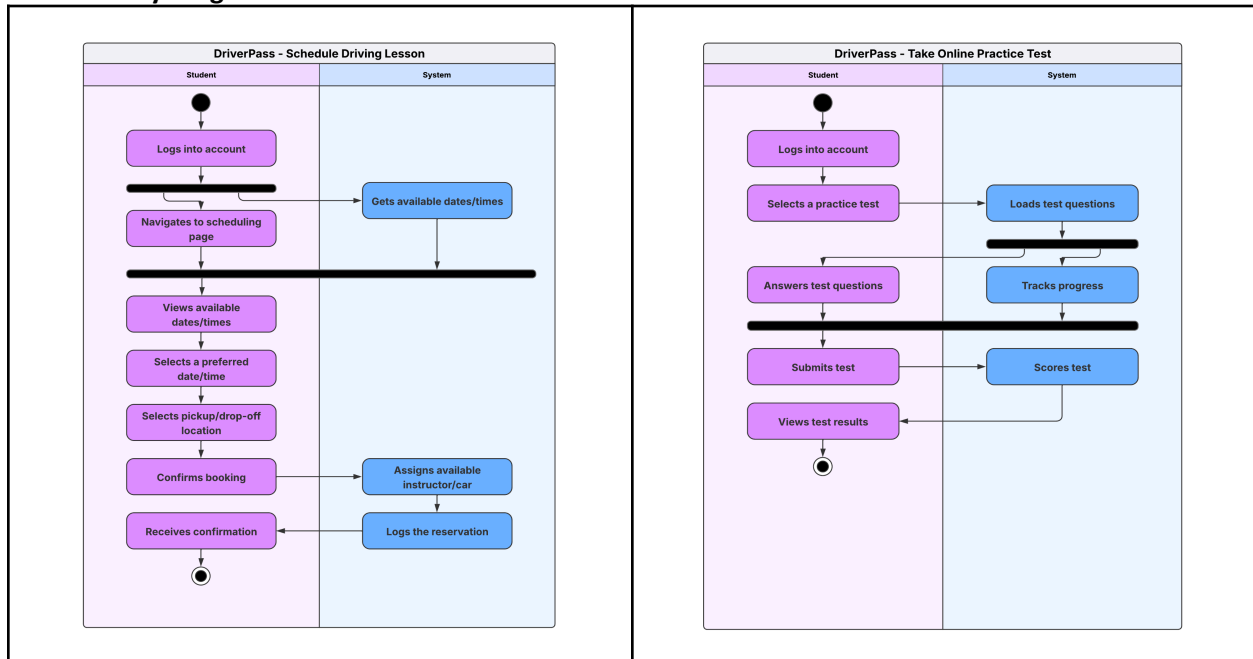
## CS 255 System Design Document

### UML Diagrams

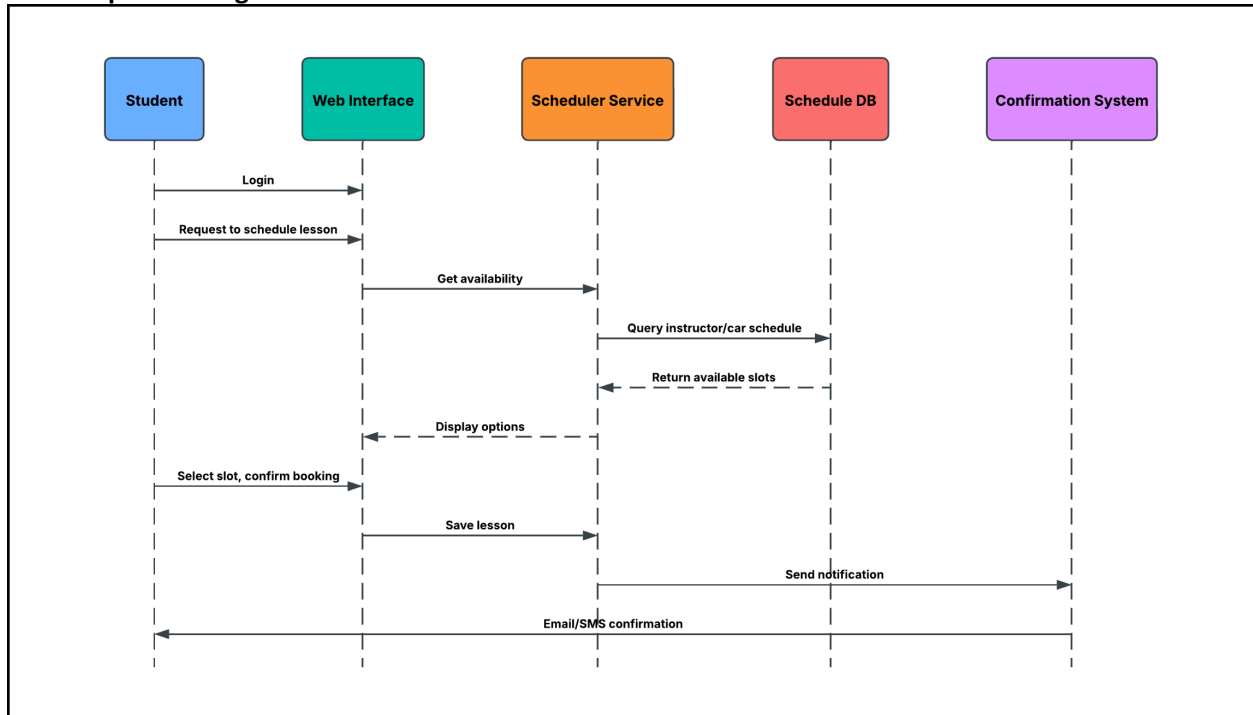
#### UML Use Case Diagram



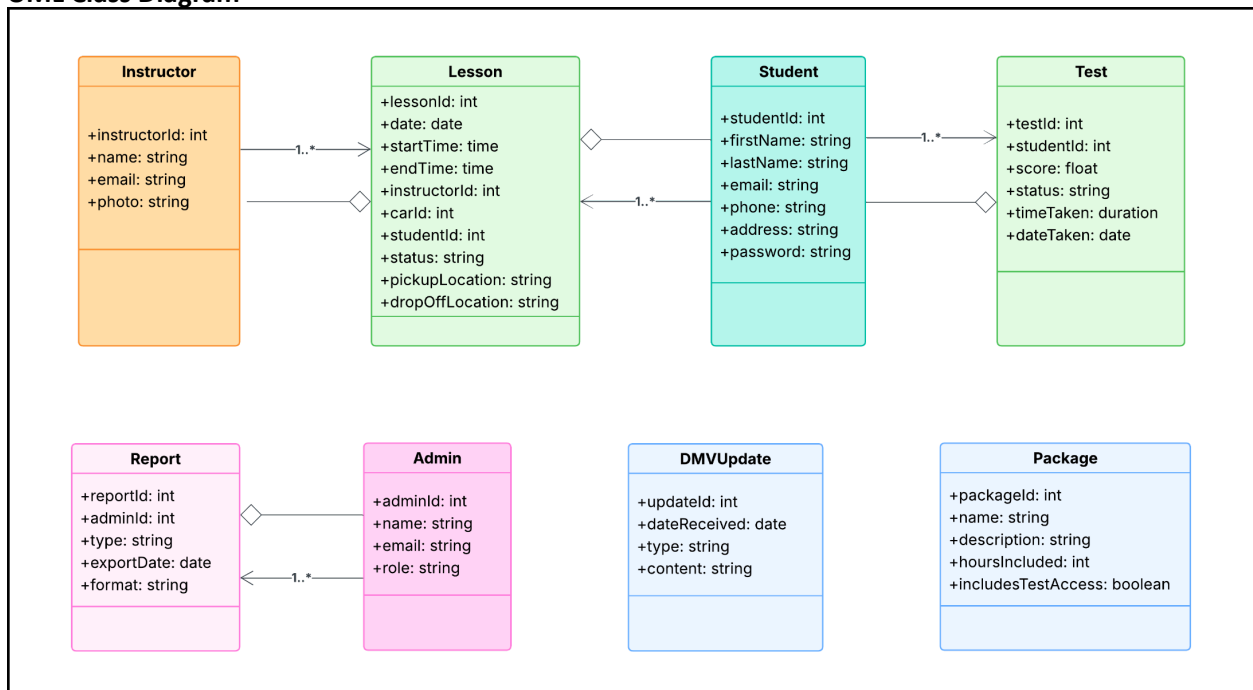
#### UML Activity Diagrams



## UML Sequence Diagram



## UML Class Diagram



## Technical Requirements

### Hardware:

- Cloud-based hosting to ensure minimal server maintenance
- Secure back-end database for storing user information, test results, lesson schedules, and system logs

### Software:

- Web server software to handle business logic and data processing
- Front-end framework that supports most common browsers
- Integrated feed to receive updates from the DMV

### Tools:

- Visual Studio for developing software
- GitHub for version control and collaboration
- MySQL Workbench for managing the database
- CSV export tools for generating reports

### Security:

- Role-based access control to restrict permissions based on user (Student, Instructor, Secretary, Admin)
- Encryption protocols for secure data transfer
- Password/account recovery system
- System activity logging and auditing