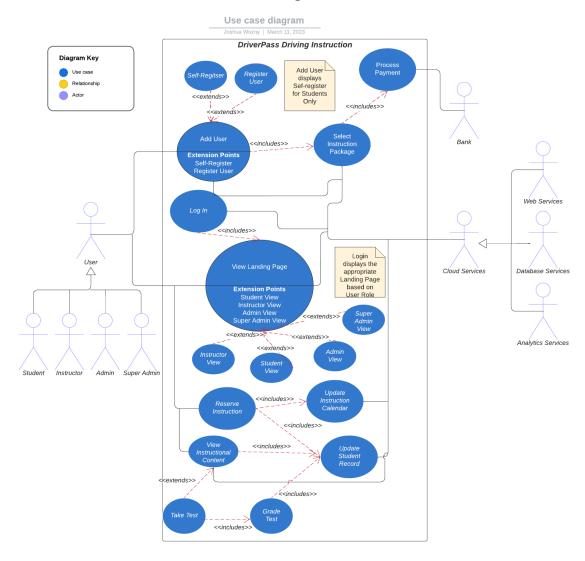


CS 255 System Design: DriverPass

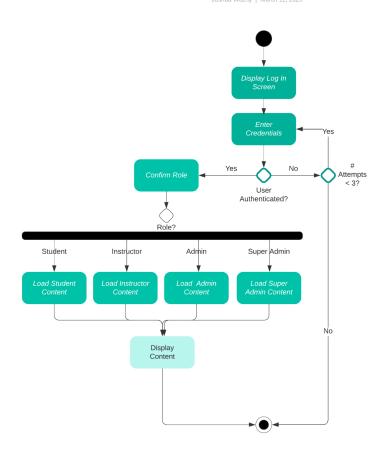
UML Diagrams





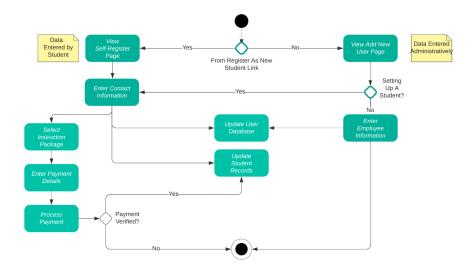
UML Activity Diagrams

Log In Activity diagram



AddUser Activity diagram

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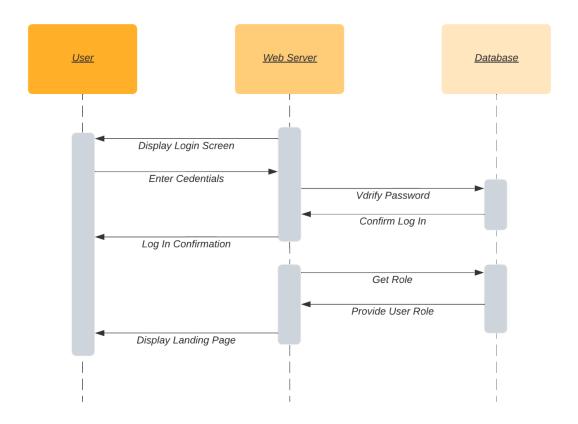




UML Sequence Diagram

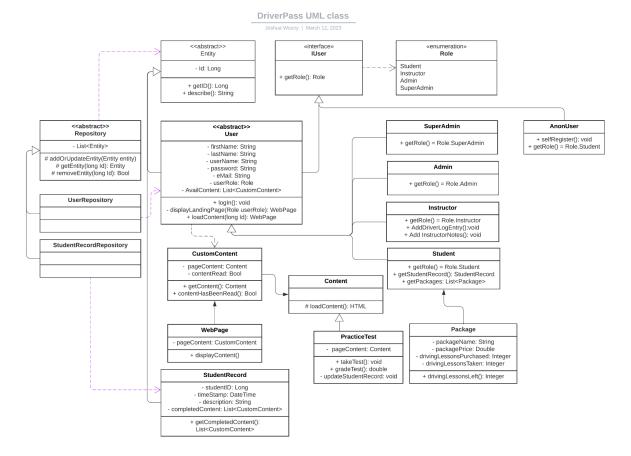
Log In Sequence Diagram

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UML Class Diagram





Technical Requirements

Summary: The system will be hosted on the Cloud as a web-based application. Payments for services will use an API provided by DriverPass' bank. The application back-end will handle User Authentication, and data storage will use a Cloud-based SQL server. The Cloud Service will provide analytics data.

Development Environment

- IDE: Web Storm & IntelleJ
- Languages: Java, SQL, Javascript, HTML
- Frameworks: React, Hibernate, Java Authentication and Authorization Services (JAAS)
- Implement Bank's Payment Processing API

System Components:

- Cloud Services
 - Web Server
 - Analytics Service
 - Database Server with PostgreSQL
 - Virtual Machine to run the back-end application
- Windows, Android, Linux, and Apple software compatibility
- Search Engine Optimization

Assumptions: Users have an active internet connection and a web browser.

Limitations: The system will not function if the Cloud Provider experiences an outage. The Cloud Provider can suspend services if suspicious activity occurs or for a Terms of Service Breach.