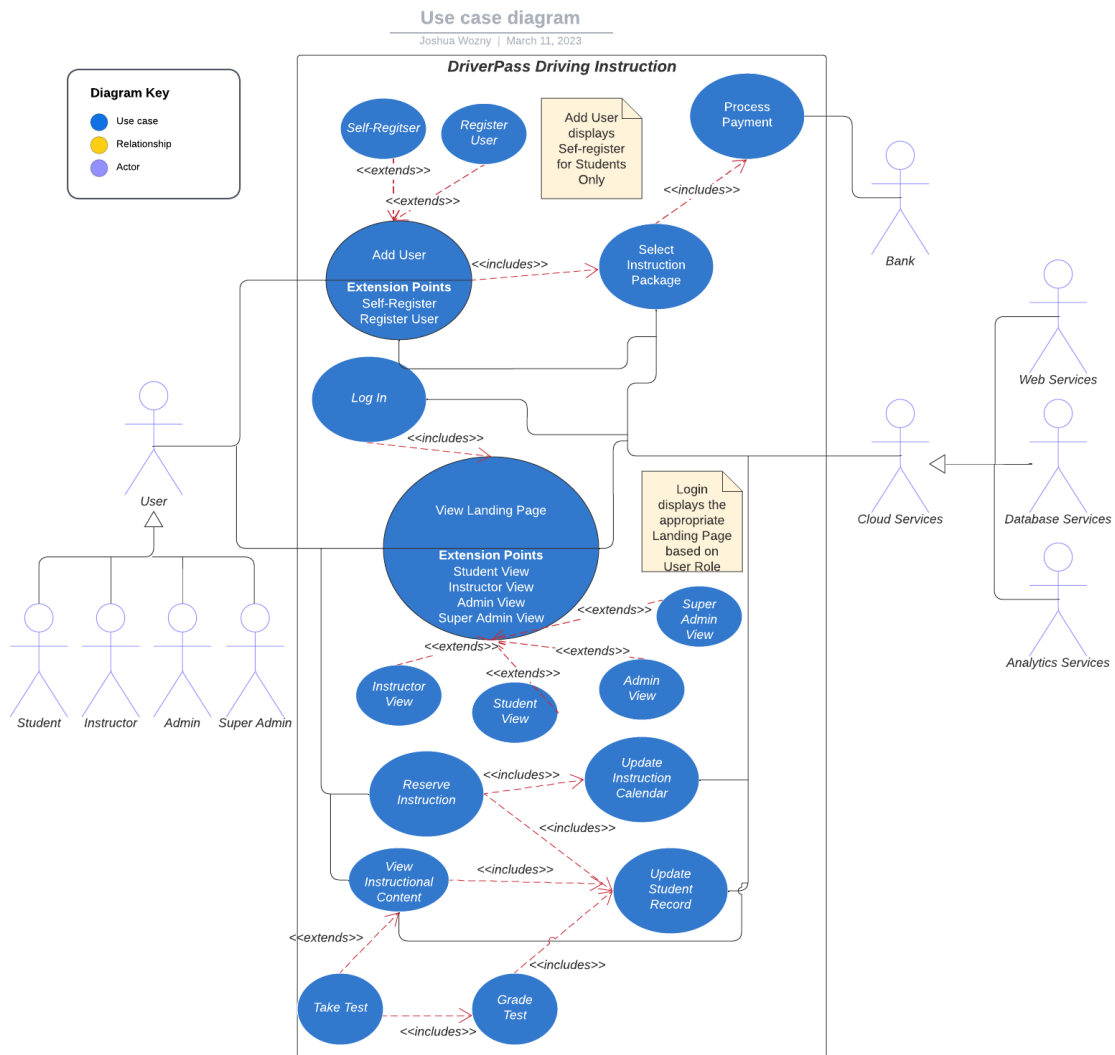


CS 255 System Design: DriverPass

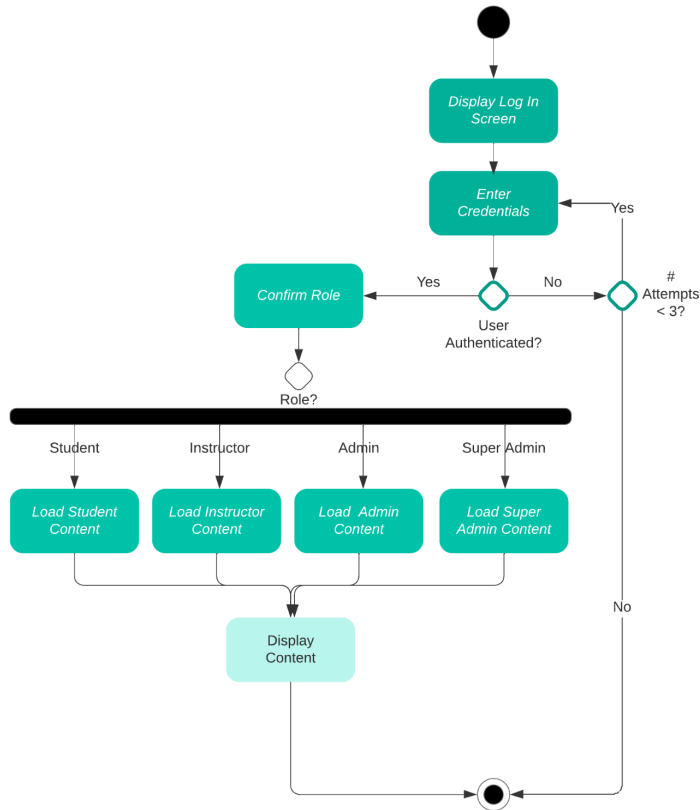
UML Diagrams



UML Activity Diagrams

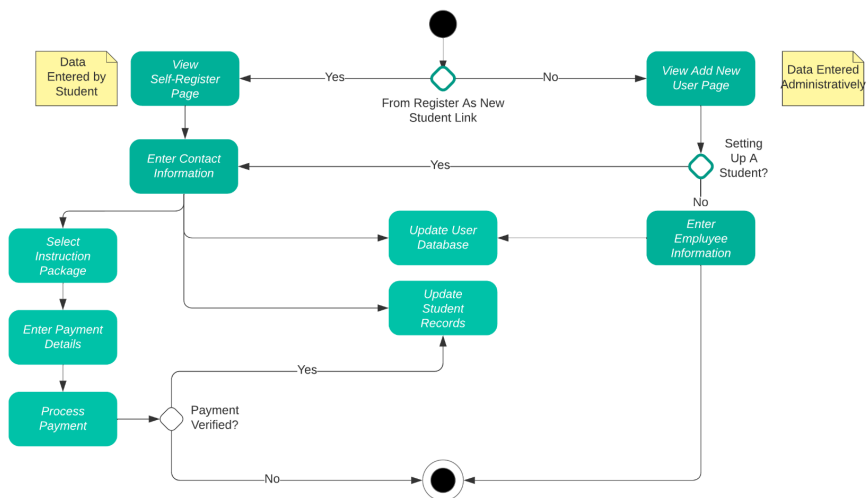
Log In Activity diagram

Joshua Wozny | March 11, 2023



AddUser Activity diagram

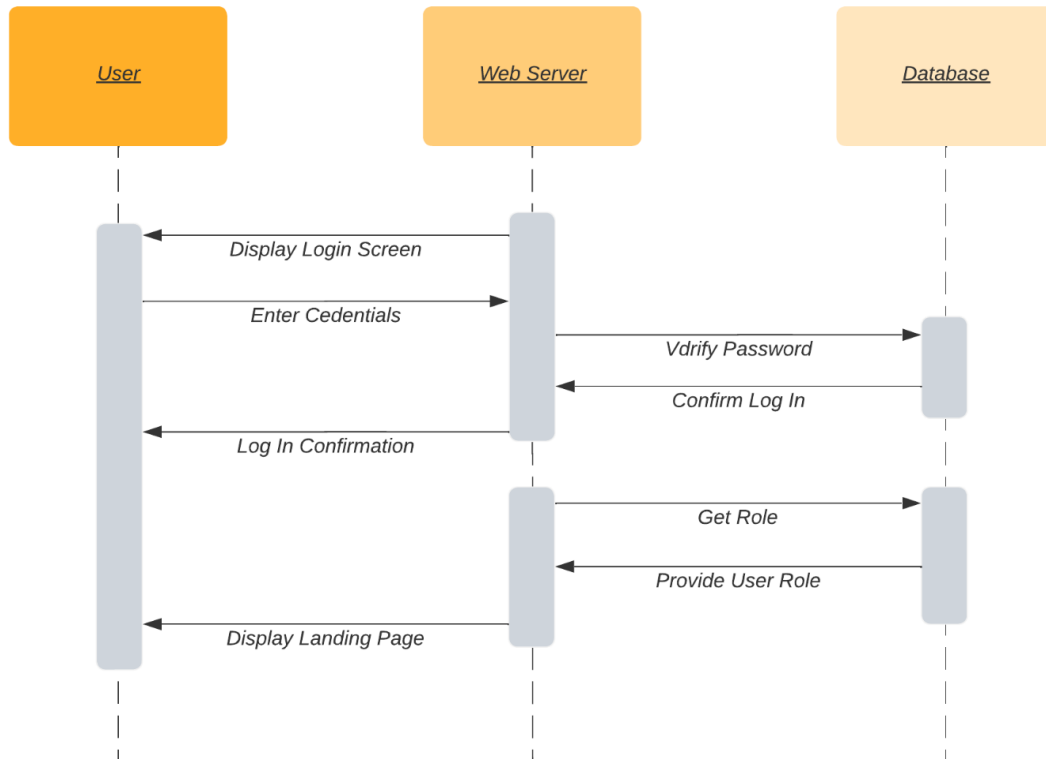
Joshua Wozny | March 11, 2023



UML Sequence Diagram

Log In Sequence Diagram

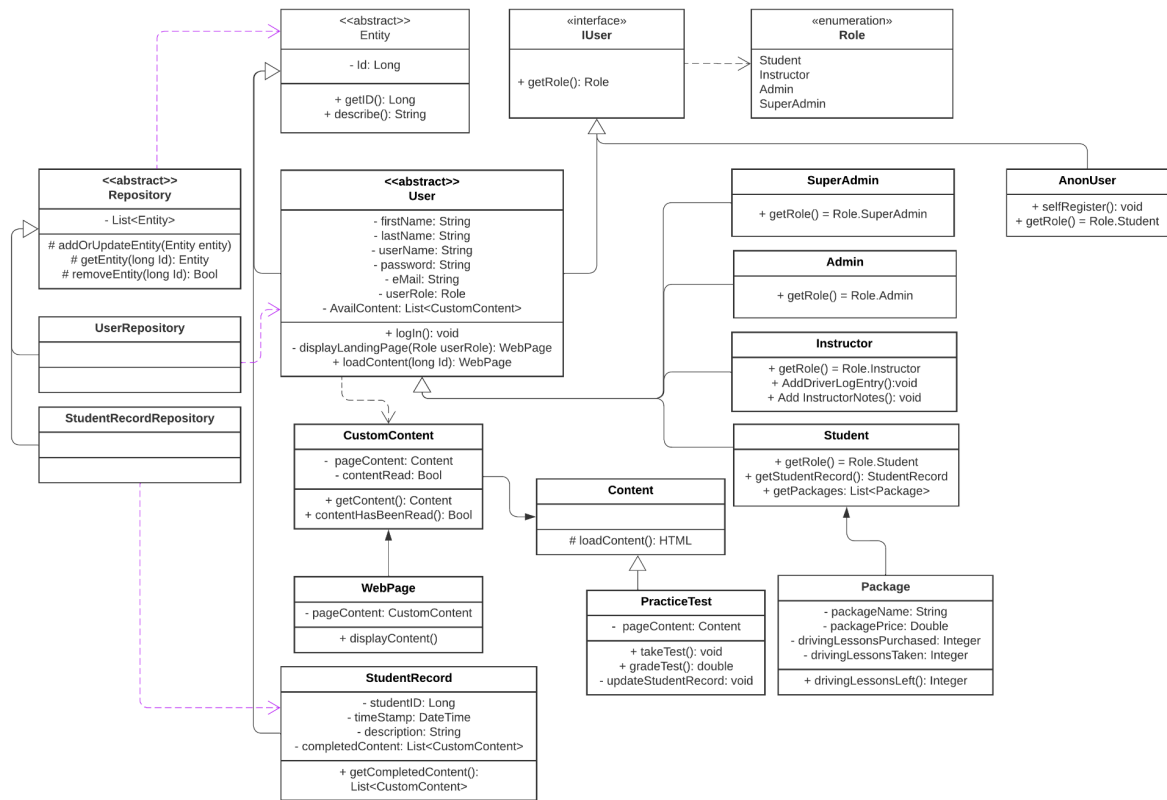
Joshua Wozny | March 11, 2023



UML Class Diagram

DriverPass UML class

Joshua Wozny | March 12, 2023



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 & IntelliJ
- 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
- Pages Designed for 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.