# CS 255 System Design Document

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CS-255

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## UML Diagrams

### UML Use Case Diagram

*A diagram of a software company

Description automatically generated*

### UML Activity Diagrams

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A diagram of a process

Description automatically generated

### UML Sequence Diagram

A diagram of a workflow

Description automatically generated

### UML Class Diagram

Current Class Requirements

* Vehicle
* Reservation
* Class User
  + With Student and Instructor
* Class Instructor
  + With Lesson

A diagram of a computer

Description automatically generated

## Technical Requirements

Requirements for the web-based application.

* Linux-based web server
* Scalable environment
* Network traffic should be encrypted.
* All web pages should be compatible with mobile devices.
* All web pages should be tested with different web browsers.
* Web page up time should be 99.5% throughout the year.
* Reports should be in CSV file format.