# CS 255 System Design Document Template

## UML Diagrams

### UML Use Case Diagram



### UML Activity Diagrams

### *Scheduling a Lesson*

### *Creating a Progress Report*

### UML Sequence Diagram



### UML Class Diagram



## Technical Requirements

**Hardware:** Web servers and user devices such as desktops, tablets, or smartphones.

**Software:** *Backend:* Java or Python. *Frontend:* HTML, CSS, JavaScript. *Database:* MySQL. Web Server. Email Service.

**Tools:** Lucidchart for UML diagrams. Git/GitHub for version control. Visual Studio Code or IntelliJ for IDE. JUnit or Selenium for testing.

**Infrastructure:** *Web hosting:* AWS or Azure. *Database hosting:* cloud SQL. *Security:* HTTPS, password hashing, role-based access control. Backup system and monitoring tools.