# CS 255 System Design Document Template

## UML Diagrams

### UML Use Case Diagram

A diagram of a system

Description automatically generated with low confidence

### UML Activity Diagrams

*A picture containing text, receipt, diagram, screenshot

Description automatically generated*A picture containing text, diagram, screenshot, design

Description automatically generated

### UML Sequence Diagram

*A diagram of a product

Description automatically generated with low confidence*

### UML Class Diagram

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Description automatically generated*

## Technical Requirements

* The system should run on desktop and mobile browsers (Chrome, Safari, Firefox, Edge)
* The backend requires a database to store information
* The Cloud should be utilized to enable users to access their accounts from multiple devices
* The system should be web-based
* The system should be fast and scalable to prevent long loading times for users
* The system should be updated regularly to ensure it is running efficiently and to patch any issues that may arise
* Multi-factor authentication should be offered as an option for extra security of accounts
  + Users should be able to decide if a code should be sent via personal email or phone number that is linked and verified to their account
* Changes such as add, remove, or modify should be able to be made without changing the code
* System should adapt to any platform updates without issue