# CS 255 System Design Document

## UML Diagrams

### UML Use Case Diagram

*Diagram

Description automatically generated*

### UML Activity Diagrams

*Diagram

Description automatically generated*

Diagram

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### UML Sequence Diagram

*Diagram

Description automatically generated*

### UML Class Diagram

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Description automatically generated*

## Technical Requirements

* *The system shall provide heightened security through third-party cloud service provider.*
* *The system shall be accessible from anywhere at anytime unless during planned downtime.*
* *The system shall disable account upon reaching max login attempts of three.*
* *The system shall enforce password complexity and password history.*
* *The system must meet minimum system requirements.*
* *The system must be accessible from multiple operating platforms.*
* *The system must encrypt any PII of users in the database.*
* *The system shall complete transactions in 24 seconds or less.*
* *The system shall authenticate and authorize users.*
* *The system shall only allow role based permissions to user based on their groupID’s.*