# CS 255 System Design Document Template

## UML Diagrams

### UML Use Case Diagram

Diagram

Description automatically generated

### UML Activity DiagramsDiagram Description automatically generated

Diagram

Description automatically generated

### UML Sequence Diagram

Diagram

Description automatically generated

### UML Class Diagram

Diagram

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## Technical Requirements

***Software Required for Client:***

1. *Operating System*
2. *Major Internet Browser (Chrome, Edge, Firefox)*

***Hardware Required for Client:***

1. *Device (Mobile, Desktop, Laptop)*
2. *Internet provider*
3. *Internet access (ethernet or wireless)*
4. *Electricity*

***Software Required for Host:***

1. *Windows Server OS*
2. *DriverPass software*
3. *Security protocols and programs to protect customers private data.*

***Hardware Required for Host:***

1. *Physical server, two for redundancy*
2. *Monitor, keyboard, mouse to see and interact with server*
3. *Internet provider*
4. *High speed ethernet cables for networking*

***Tools:***

1. *Computers (Either Windows or Mac) that have IDEs installed (Visual Studio Code preferred).*
2. *Internet connection to upload files.*
3. *Admin tools for network protocols*

***Infrastructure:***

1. *Credit card company agreement*
2. *High speed internet for the office/server*
3. *Strong power(electrical) infrastructure at server to reduce downtime and issues with limitations and expansion.*
4. *Accessible server location*
5. *Insurance if required in our state.*