**CS 255 System Design Document Template**

This template lays out all the different sections that you need to complete for Project Two. Each section has guidance to prompt your thinking. You will need to continually reference the interview transcript as you work to make sure that you are addressing your client’s needs. There is no required length for the final document. Instead the goal is to complete each section based on what your client’s needs are. Remove this note when you are finished, and replace all bracketed text with the relevant information.

**UML Diagrams**

**UML Use Case Diagram**



**UML Activity Diagrams**





**UML Sequence Diagram**



**UML Class Diagram**



**Technical Requirements**

Hardware Requirements:

High-performance servers and storage solutions.

Support for various devices like computers, tablets, and smartphones.

Software Requirements:

Use of web development frameworks and libraries.

Utilization of relational or NoSQL databases.

Tools and Infrastructure:

Use of Lucidchart for UML diagrams.

Deployment on cloud platforms like AWS, Azure, or Google Cloud.

Security Requirements:

Encryption for data transmission and storage.

Role-based access control and authentication mechanisms.

Performance and Scalability:

Load balancing and caching mechanisms for performance.

Monitoring tools for tracking system performance.

Compliance and Maintenance:

Adherence to data protection regulations.

Regular maintenance for updates and security patches.