# 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

A diagram of a company

Description automatically generated

### UML Activity Diagrams

A diagram of a diagram

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A diagram of a company

Description automatically generated

### UML Sequence Diagram

A screenshot of a computer

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### UML Class Diagram

A computer screen shot of a computer flow chart

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## Technical Requirements

**Host System Requirements:** To set up the host, we will need at least one physical server, accompanied by networking cables for connecting the server to other devices. A monitor, keyboard, and mouse are required for direct interface with the server. Make sure you have a reliable power supply and an active internet service.

**Client System Requirements:** For the client side, a desktop or laptop computer is necessary. We will need either a Wi-Fi router or an ethernet cable for network connectivity, along with power sources and internet access.

**Host Software Needs:** The host system should be equipped with the Windows Server operating system. Install DriverPass Software and Docker software to efficiently manage virtual machine traffic. Don’t forget to add security software to protect against data breaches and cyber threats.

**Client Software Needs:** Clients should have a web browser (like Firefox or Chrome) and an operating system (such as Mac, Linux, or Windows). Security software is also essential for the client system to safeguard sensitive information.

**Development Tools:** Developers will require computers installed with programming software, for instance, Visual Studio or Eclipse. A stable internet connection is vital for uploading content to the server. Additionally, network administrative tools are necessary to monitor and detect any unusual traffic.

**Infrastructure Needs:** Lastly, we will need a location for the server, which could be a physical site or a cloud service provider, depending on our preferences and requirements.