**Week 3: System Architecture Design**

System Architecture Document:

* High-Level Architecture Diagram:

A screenshot of a computer screen

AI-generated content may be incorrect.

* Selected Design Patterns & Justification:

1. Factory Method
2. Singleton
3. Proxy

* UML Diagrams (Component Diagram, Deployment Diagram):

Component:  
A screenshot of a computer program

AI-generated content may be incorrect.

Deployment Diagram:

A diagram of a software application

AI-generated content may be incorrect.

* Data Flow Overview:  
  A screenshot of a computer

  AI-generated content may be incorrect.