# CS 255 System Design Document Template

## UML Diagrams

### UML Use Case Diagram

Diagram, schematic

Description automatically generated

### UML Activity Diagrams

Diagram

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Diagram

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### UML Sequence Diagram

Diagram

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### UML Class Diagram

Diagram

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## Technical Requirements

DriverPass will need cloud infrastructure to host its databases. Users need desktop computers or laptops to access the system. For security and reliability, the network infrastructure may need routers, switches, and firewalls. Servers and workstations will run Windows or Linux. Data storage and management may require MySQL or Oracle. Java, Python, Eclipse, and Visual Studio may be needed to develop the DriverPass system. System design and development team preferences determine the tools and software needed. Finally, Amazon Web Services (AWS) and Microsoft Azure offer a variety of tools and services for hosting and managing applications. On-premises hosting may require additional hardware and infrastructure for security and reliability. Depending on the system and its users, system design technical requirements can be complex and varied. To meet technical requirements and deliver functionality, system design requires careful planning, analysis, and implementation.