# 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 diagram

### UML Activity Diagrams

### A diagram of a software process AI-generated content may be incorrect.

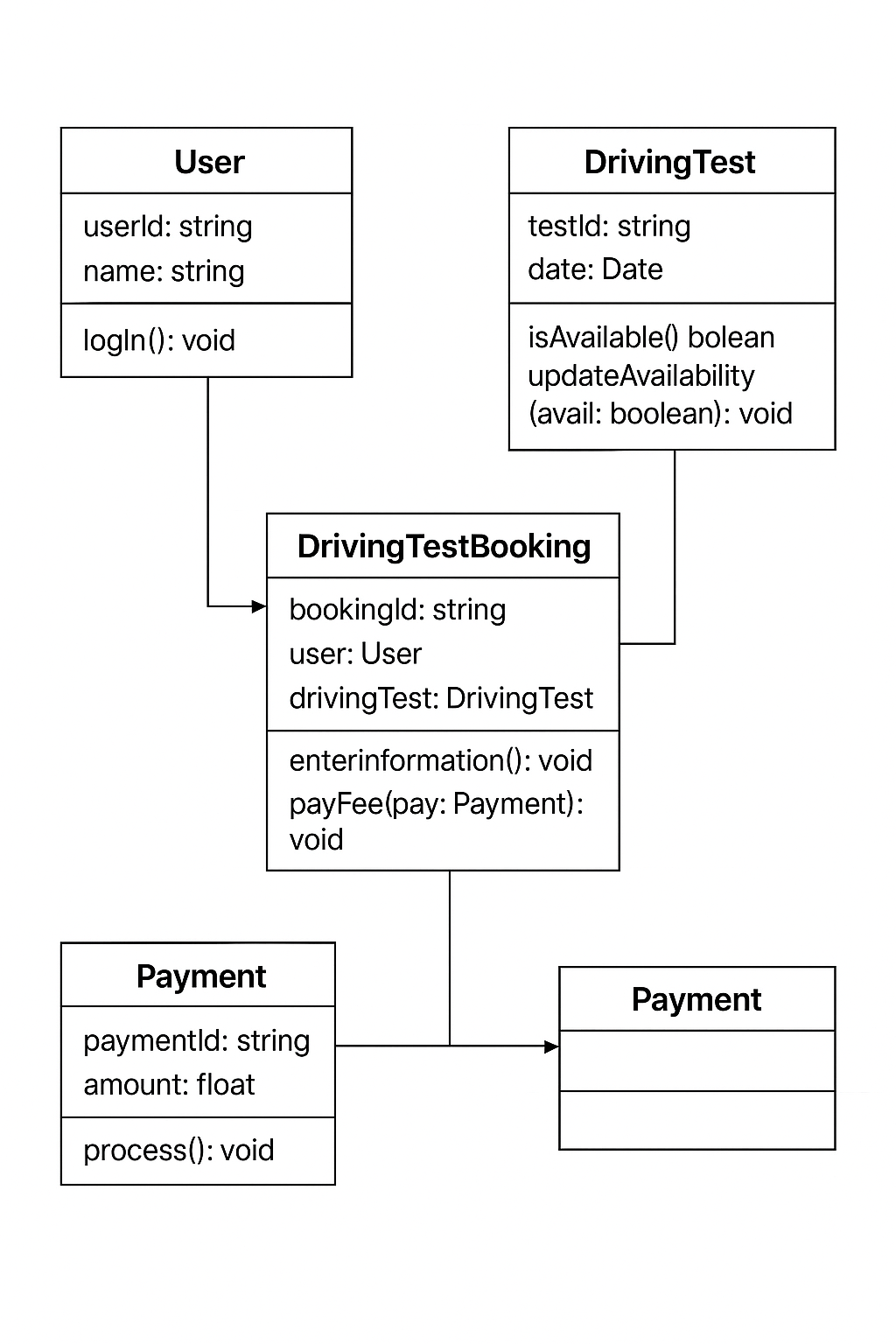
### A diagram of a program AI-generated content may be incorrect.

### UML Sequence Diagram

A diagram of a computer program

AI-generated content may be incorrect.

### UML Class Diagram

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## Technical Requirements

\*\*Hardware Requirements:\*\*  
- Cloud-based servers (e.g., AWS EC2)  
- Devices used by clients and instructors: phones, tablets, PCs  
  
\*\*Software Requirements:\*\*  
- Frontend: React.js  
- Backend: Node.js or Django (Python)  
- Database: PostgreSQL  
- Authentication: OAuth 2.0  
  
\*\*Tools:\*\*  
- Visual Studio Code, GitHub, Jira, Selenium, JUnit  
  
\*\*Infrastructure:\*\*  
- HTTPS with SSL encryption  
- Load-balanced servers  
- Nightly database backups  
- Cloud-based monitoring/logging