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CS499: Computer Science Capstone

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# CS 255 System Design Document

## UML Diagrams:

### UML Use Case Diagram



### UML Activity Diagrams





### UML Sequence Diagram



## Technical Requirements

The system's technical requirements involve its compatibility with Android mobile architecture, with plans for iOS and web-based platforms, and the storage of all information on the cloud. Depending on the size of the database, it is more practical to store the data on the cloud rather than locally. Therefore, the application users must have a dependable internet connection. Furthermore, it must be securely encrypted to guarantee the integrity and security of the data stored in the cloud. The information stored in the cloud should only pertain to the Control Your Inventory application and no other purpose. Lastly, the system needs to establish a fast and reliable connection to the cloud to ensure consistent data updates and immediate availability of new information.