QAs and ASRs

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Q. Select three quality attributes which are relevant to your project. In a word processing document, explain why the quality attributes are important to the software you are creating. Also, select the architecturally significant requirements from your SRS and create a utility tree similar to Table 16.5 in the textbook.

Ans.

The Quality attributes mentioned below are in order of their priority,

1. **Security**:

Security should be #1 priority for all application that have any PID and financial data. Since my application will be storing lot of financial transaction it will be my first priority to secure my application.

   a. *Data Security*: Due to the nature of the application, all the data store should be SHA256 encrypted before storing into database.
   b. *API Level Security*: Authentication and Authorization are two important part of the application. I will be setting roles-based privileges to what a user can see.

2. **Usability**:

The audience I am targeting won't be professional in any kind of job which require computer. To make it functionally I will make sure that my application is not a sandwich of many features rather a simple and clean application with basic functionality.

   a. *Easy User Interface*: Just like apple product I want my application to be simple to use with basic functionality.

3. **Performance**:

The application will be in microservice architecture. I will create separate project from backend and UI connection via API calls. I want to make sure even with high traffic my application is able to perform all the basic features

   a. *Transaction response time*: after user updated it inventory it should be update in DB quickly and should be updated in all other devices.
   b. *Busy Server:* during peak hours, the server should be able to handle the load without reducing the performance.