Internet Banking Application

Supplementary Specification

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The introduction of the **Supplementary Specification** provides an overview of the entire document. In this document, we will try to define some non-functional attributes of our application, like: availability, performance, security, testability and usability.

# Non-functional Requirements

## Availability

The availability attribute refers to the ways that the application can be accessed, and how easy it is for users to operate and interact with the service. The service is available on any computing device that is connected to the Internet and has a Web browser, so almost anyone nowadays has access to it. A possible measure for availability would be to count the number of users. The higher the number, the more people are satisfied with the app, so there are more chances of people recommending it to others.

## Performance

Performance refers to the way the application works, meaning that it does not have bugs, it does not crash, it delivers the expected results and it is responsive to the user’s choices. A measure of the performance would be to run a series of artificial tests to check how to system performs under heavy load or to monitor the number of reported bugs.

## Security

Security is one of the most important attributes that a Web application should have. The user’s data must be protected from other malicious agents. One way to do this is to store encrypted data into the database (like user login credentials), or maybe to use the HTTPS protocol. One way to measure the security level of a Web server is to try and hack it using different techniques like SQL injection.

## Testability

Testing of the system is an important process, because it often leads to finding bugs. A couple of test suites should be designed that simulate a user login and the execution of various bank operations.

## Usability

Usability refers to the way users interact with the application and how happy they are with what they get. I think that this attribute is similar with the performance. A usable application should be responsive and produce expected results. A measure of usability could be to ask the users to take a survey, and ask them questions like how would they rate the application, how likely they are to recommend it to others and so on.

# Design Constraints

* Must have users
* At least three entities (apart from users)
* At least three use cases (apart from login/logout)
* Must be a web application
* Programming languages used: Java Spring Boot