

<Vinita Ravivarma>

Software Design Template

Version 1.0

Table of Contents

<i>Software Design Template</i>	
1	
Table of Contents	
2	
Document Revision History	
2	
Executive Summary	
3	
Requirements	
3	
Design Constraints	
3	
Rationale	
4	

Document Revision History

Version	Date	Author	Comments
1.0	09/12/2024	<Vinita Ravivarma>	<In this revision, the font and double spacing of the information that I write is the purpose in order to get a good writing style on a document.>

Instructions: Fill in all bracketed information on page one (the cover page), in the Document Revision History table, in the footer, and below each header. Under each header, remove the bracketed prompt and write your own paragraph response covering the indicated information.

Executive Summary

<Summarize the client's problem in 2-3 sentences. Be sure to provide all relevant background information, including the name of your client.> Chat away is the social media company that gains successful websites throughout the world. Right now, they're looking for ways to improve mobile apps to advertise their products to bigger customer bases and make revenues higher. The apps must be available in app stores for Android and iPhone smartphones.

Requirements

<In your summary, identify each of the client's business and technical requirements in a clear and concise manner.> One of the client's business is that the app must be secure, compatible with both Android/iPhone smartphones, easy to use and navigate, then it also should allow users to connect with others, create, and share some chat messages in my summary. However, the app should also be developed using a secure coding methodology along with a cross-platform development framework and tested on both iPhone/Android smartphones. However, the app should also be developed using a secure coding methodology along with a cross-platform development framework and tested on both iPhone/Android smartphones.

Design Constraints

<Translate your client's requirements into at least three design constraints.> My client is trying to the three main problems which are required for a given project that involve cross-platform compatibility, security, and budget. Furthermore, my client's requirements are possible to address. I would solve the problem and address the client's requirement by understanding that the app is compatible with both Android/iPhone smartphones meaning that it's always improved using cross-platform development frameworks and secure coding methodologies that are always tested for security vulnerabilities. According to the situation, it's essential to know the budget since the client is seeking to outsource some projects in hopes of staying within this process. That means the entire development team should search for ways to reduce costs without compromising the app's quality. Responsive design and integration with existing backend are some extra needs to help the client address their problem besides budget, security,

and cross-platform compatibility. Each of those constrain my design and development by knowing that the app's user interface and layout are always designed to adapt to multiple screen sizes/resolutions responsively, so it makes sure that the main app provides optimal user experiences based on the device being used, whether it's a small smartphone screen or a big tablet screen. Accordingly, the mobile app must integrate with Chat Away's existing backend infrastructure, permitting users to get access and interact with the features of our platform, involving social interactions posting, and messaging. This constraint guarantees that the mobile app also provides cohesive experiences for users, leveraging the existing backend functionality and Chat Away's data.

Rationale

<Explain your rationale for each design constraint you've identified and how it relates to the requirements provided to you by the client.> Each requirement that I've identified has translated into the design constraint and it related to the requirements provided to me by knowing the purposes and reasons of creating rationales for one of them. They are considered constraints for design and development because it's possible to improve mobile apps for Chat Away exceeding their business/technical requirements, allowing them to expand their customer base and increase revenues through accessible and user-friendly mobile platforms by stating those all together. Therefore, they are both business and technical constraints. The key constraints that I inform and influence my design and development on are cross-platform compatibility, security, and budget when I complete the relevant portions of the software design template. The cross-platform compatibility constraint is required because the clients wants all mobile apps to be available to users of Android and iPhone smartphones while security is also necessary so that sensitive data like usernames and passwords can be handled well. Budget constraints are necessary because the client is seeking for trying to outsource projects. Overall, these design constraints will inform and influence the design and development of the Chat Away app. The development team will also have to carefully consider those constraints when deciding about the app's architecture, design, and implementation.