Chat Away

# Software Design Template

Version 1.0

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## Document Revision History

| Version | Date | Author | Comments |
| --- | --- | --- | --- |
| 1.0 | 01/20/2024 | Jordan Clark | Initial summary, requirements, design constraints, and rationale behind the choices made to move forward. |

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

*Chat Away* wants to develop an app thats available for download on iPhone and Android smartphones. They have a strong brand with a successful social media website and the app aims to market their product to a larger customer base.

## Requirements

The business requirements include developing a mobile app for the iPhone and Android smartphone; increasing revenu through market reach with the app; and staying within a budget for outsourced work.

The technical requirements include the app must be compatable on iPhone and Android; accessible to custimers in the Apple App Store and in the Google Play Store; and the app must function as a social media app.

## Design Constraints

The first design constraint is the app must run on 2 different platforms. This narrows the selection of frameworks down to the ones who support cross-platform compatablility, such as React Native or Flutter.

The second design constraint is the budget. This is two-fold because building, maintaining, and enhancing the app should stay qwithin Chat Away’s allocated budget for outsourced work, but the app should also have a consistent user interface and smooth user experience to reach new markets for increased profit. Similarly, using a framework that supports both platforms would be the best solution here.

The third design constraint is making the app accessible in both the Apple App Store and the Google Play Store. The app must adhear to the different guidelines, permission models, accommodate device fragmentation, and provide a seamless user interface in either store. Designing a UI that adhears to the specific guidelines for each platform would ensure texts and icons are consitent, the technical page is readable across different devices, and most importantly the customer can easily begin using the app.

The fourth constraint is how the app functions. Chat Away has a successful social media website and their customers most likely expect a social media based app. This means the app must maintain its scalability, have privacy & security protocols, content moderation, and stay current with features users come to expect.

## Rationale

The rationale behind using a cross-platform framework is to addess a few design constraints at once. The framework uses a single code base which makes it easier to maintain the app and adapt it to market demands; its cost-efficient, which helps stay within budget; we can develop a user interface to adhere to each store’s guidelines, making it easily accessible to both customer base; and there are social media templates to quickly conform to the kind of experience Chat Away provides its customers.