Chat Away

# Software Design Template

Version 1.0

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## Document Revision History

| Version | Date | Author | Comments |
| --- | --- | --- | --- |
| 1.0 | 05/19/2024 | Andrei Shostak | Initial |

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, a successful social media company with an established web presence, aims to expand its reach by developing a mobile app. The goal is to market the app to a broader audience and increase revenue by making it available on both iPhone and Android platforms. The client seeks to outsource this project to stay within their budget constraints.

## Requirements

• Develop a mobile app compatible with both iPhone (iOS) and Android platforms.

• Ensure the app meets the quality standards of app stores for successful approval and listing.

• Optimize development costs to stay within budget while delivering a high-quality product.

• Implement necessary features to replicate the website’s functionality in the mobile app.

## Design Constraints

1. **Cross-Platform Development Framework:**
   * **Constraint:** The app must be developed using a cross-platform framework (e.g., React Native, Flutter).
   * **Rationale:** This approach allows for simultaneous development for both iPhone and Android platforms, reducing time and costs compared to developing separate native apps for each platform.
   * **Type:** Technical and Business Constraint
   * **Relation to Requirements:** Using a cross-platform framework addresses the need for the app to be available on both platforms while staying within budget constraints by minimizing development efforts and costs.
2. **App Store Compliance:**
   * **Constraint:** The app must adhere to the guidelines and quality standards of both the Apple App Store and Google Play Store.
   * **Rationale:** Ensuring compliance with app store guidelines is crucial for the app to be approved and listed, which directly affects the app’s marketability and potential revenue.
   * **Type:** Technical Constraint
   * **Relation to Requirements:** This constraint ensures that the app will be accepted by the stores, meeting the client’s requirement of making the app available to a larger customer base.
3. **User Interface (UI) and User Experience (UX) Design:**
   * **Constraint:** The app must have an intuitive, user-friendly interface that mirrors the functionality and design of the existing website.
   * **Rationale:** A consistent UI/UX design ensures a seamless transition for existing users from the web platform to the mobile app, enhancing user satisfaction and retention.
   * **Type:** Technical and Business Constraint
   * **Relation to Requirements:** This constraint ensures the app delivers the same quality experience as the website, fulfilling the client’s requirement to replicate website functionality in the mobile app.

## Rationale

* **Cross-Platform Development Framework:** This constraint is essential due to the dual-platform requirement. It ensures efficient use of resources and budget by allowing developers to write a single codebase that runs on both iOS and Android. This is a technical constraint driven by business needs for cost-effective development.
* **App Store Compliance:** Compliance with app store guidelines is non-negotiable as failure to do so would prevent the app from being listed and marketed, directly impacting revenue. This is a technical constraint ensuring the business goal of reaching a larger audience is met.
* **User Interface (UI) and User Experience (UX) Design:** The need for a familiar and user-friendly interface is crucial for user retention and satisfaction. By ensuring the app mirrors the website’s design, users will find the transition seamless, meeting both technical and business objectives for maintaining a consistent user experience.