Chat Away

# Software Design Template

Version 1.0

## Table of Contents

[Software Design Template 1](#_Toc21086455)

[Table of Contents 2](#_Toc21086456)

[Document Revision History 2](#_Toc21086457)

[Executive Summary 3](#_Toc21086458)

[Requirements 3](#_Toc21086459)

[Design Constraints 3](#_Toc21086459)

[Rationale 3](#_Toc21086460)

## Document Revision History

| Version | Date | Author | Comments |
| --- | --- | --- | --- |
| 1.0 | 07/12/2024 | Darrell Walker | Initial creation of the software design template |

## Executive Summary

Chat Away, a social media company with a successful website, seeks to expand its reach by developing a mobile app. This app aims to market their product to a larger customer base and increase revenue by being available in app stores for both iPhone and Android smartphones. They have decided to outsource this project to your consulting firm to stay within budget.

## Requirements

**Business Requirements:**

1. The app must be available on both iPhone and Android platforms.
2. The app should enhance the company’s marketing efforts and increase their customer base.
3. The app development must stay within the client's budget.

**Technical Requirements:**

1. The app must be compatible with iOS and Android operating systems.
2. The app should integrate with the existing backend systems of the website.
3. The app must adhere to the security and privacy standards required by app stores.

## Design Constraints

1. **Cross-Platform Compatibility:**

* **Constraint:** The app must be developed using technologies that support both iOS and Android platforms (e.g., React Native or Flutter).
* **Rationale:** This ensures the app can reach a broader audience without needing separate codebases for each platform, helping to stay within budget.

1. **Budget Constraints:**

* **Constraint:** Development costs must be minimized while ensuring high quality.
* **Rationale:** Utilizing open-source frameworks and tools can help manage costs. Prioritizing essential features and planning for phased enhancements can ensure the project remains within budget.

1. **Security and Privacy Compliance:**

* **Constraint:** The app must comply with all security and privacy requirements of the respective app stores.
* **Rationale:** Ensuring compliance from the beginning avoids potential delays and rework due to security issues. This includes data encryption, secure user authentication, and adherence to privacy policies.

## Rationale

Each design constraint is crucial for the successful completion of the project within the client's requirements:

* **Cross-Platform Compatibility** addresses the business requirement of having the app available on both iPhone and Android, facilitating broader market reach.
* **Budget Constraints** ensure the project stays within the financial limits set by the client, which is critical for the feasibility and sustainability of the project.
* **Security and Privacy Compliance** is necessary for the app to be accepted in app stores and trusted by users, directly impacting the app’s adoption and success.