Chat Away

# Software Design

Version 1.0

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## Document Revision History

| Version | Date | Author | Comments |
| --- | --- | --- | --- |
| 1.0 | 01/19/2025 | Hamad Alghaithi | Initial draft of the software design |

## Executive Summary

*Chat Away is a thriving social media company with a well-established website. The client seeks to expand its market reach by developing a mobile app to attract a larger customer base and increase revenue. To achieve this goal, the app must be compatible with both iPhone and Android smartphones and available for download in respective app stores. Staying within budget is a priority for the client as they plan to outsource the project.*

## Requirements

1. *Business Requirements:*

* *Develop a mobile application for Chat Away to expand its market reach.*
* *Ensure the app is available for iPhone and Android platforms.*
* *Stay within the allocated budget by outsourcing development.*

1. *Technical Requirements:*

* *Compatibility with iOS and Android operating systems.*
* *Adherence to app store guidelines for both Apple App Store and Google Play Store.*
* *Implementation of standard features such as user authentication, notifications, and social sharing.*

## Design Constraints

1. *Platform Compatibility:*

* The app must support both iOS and Android operating systems. This requires the use of a cross-platform development framework, such as Flutter or React Native, to reduce development time and cost while ensuring seamless functionality on both platforms.

1. Budgetary Limits:

* The client's decision to outsource development imposes budget constraints. This affects the choice of development tools, frameworks, and the size of the development team. Cost-effective solutions, such as using open-source libraries and tools, must be prioritized.

1. App Store Compliance:

* The app must meet the guidelines of both Apple and Google app stores. This includes adhering to UI/UX standards, privacy policies, and security requirements. Failure to comply could delay app deployment and increase costs.

## Rationale

1. **Platform Compatibility:**
   * By choosing a cross-platform framework like Flutter or React Native, the app development process becomes more efficient. Developers can write a single codebase that works on both iOS and Android, minimizing development time and cost while ensuring consistent functionality and user experience.
2. **Budgetary Limits:**
   * Staying within budget is critical for the client. Outsourcing to a reputable development team familiar with cross-platform development reduces costs. Additionally, leveraging open-source technologies and cloud-based backend solutions helps manage expenses.
3. **App Store Compliance:**
   * Ensuring compliance with app store guidelines from the start reduces the risk of rejections and costly revisions. It also guarantees that the app will be launched without unnecessary delays, meeting the client’s timeline and revenue goals.