Chat Away

# Software Design Template

Version 1.0

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## Document Revision History

| Version | Date | Author | Comments |
| --- | --- | --- | --- |
| 1.0 | 05/12/2023 | Bryan Pirrone | Requirements provided by client |

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, needs a median to increase and market their company to a larger customer base and to increase revenue. To accomplish this task, Chat Away has concluded that they need a mobile app and have reached out to our firm for outsourcing with the goal of maintaining the project on budget. Chat Away has requested that the mobile app be available and function in both iPhone and Android smartphone stores and devices, aiming to target a larger customer base.

## Requirements

Based on correspondence with Chat Away, we can identify their business and technical constraints into three requirements. The first requirement is that the mobile app must be available for both iPhone and Android users to maximize the customer base and increase revenue. Since Chat Away is a social media company, they need to stay on budget to maximize profits.

## Design Constraints

Chat Away has a few design constraints regarding the creation of the mobile app. First, Chat Away has requested that the mobile app be available for both iPhones and Android smartphones. This is achievable using an agile methodology and by using Java. Next, Chat Away needs the mobile app to be developed within the confines of its budget. This is also achievable since we intend on using Java which will allow us to reuse code. Lastly, since Chat Away is outsourcing the creation and development of its mobile app, communications issues may arise between Chat Away and our company. This is also achievable using an agile methodology as well as utilizing existing programs such as Microsoft Azure Boards or Jira to enhance communication between both parties.

## Rationale

Chat Away is requesting that the mobile app be designed to run on both iPhone and Android devices. Java would be a great programming language to utilize to accomplish this task. Since Java is object-oriented, it will be easier to create reusable lines of code that will save time and money, aiding with the goal to stay within the confines of their budget. The only issue that I foresee is that Java can be memory intensive, so we would need to ensure that our program is within the hardware and software capabilities of iPhone and Android devices.

Staying on the budget is manageable but will have some difficulties. Java will help us reuse code, decreasing time and cost during development. Programming a mobile app for both iPhones and Android devices will be the biggest hurdle since we will need to design, program, and test our application and code on different devices. These devices may not cooperate in the same way with the application.

Lastly, since this project is outsourced, communication and coordination between Chat Away and us will be an obstacle for us to overcome. By using programs such as Microsoft Azure Boards, Jira, or other alternatives, it will be easy for all team members from both organizations to coordinate details, deadlines, and backlog items. By embracing an agile methodology for this project, we can create a level of division between management-level employees and programs, testers, and designers. This will help alleviate distractions from the programming team.