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 | 07/14/2024 | Dylan Dunagan | Added summary of Chat Away requirements, constraints, and reasoning on potential issues. |

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 would like to create a social media platform that is available for both Android and Apple mobile devices. They have a budget to adhere to, affecting the location of where this app is created.*

## Requirements

*Chat Away’s technical requirement is that the social media app is available for both Apple and Android. Their business requirement is that they have a budget they need to adhere to. Another business requirement is the consideration of outsourcing the project to adhere to that budget.*

## Design Constraints

*Chat Away’s technical requirement translates to a design constraint because Apple and Android devices have different operating systems, requiring the application to be written in at least two separate languages.*

*Chat Away’s business requirements translate to a design constraint because writing two separate languages will make the project more expensive. Another business constraint is that the outsourced company must know how to program in those languages.*

*Another design constraint that comes from the outsourcing, could be the apps capability to adapt to whatever servers or cloud storage Chat Away wants to use for their applications.*

## Rationale

*The technical design constraint is that iOS does not support the Java programming language which would require the app to be written in two different programming languages, Java for Android, and Objective-C or Swift for Apple. They would also be required to test the applications through both platforms, resulting in potentially twice the amount of work than expected.*

*The business design constraint is their consideration of outsourcing the project. The outsourced company would not only have to write and test the program in the two different languages but would also have to have the ability to write in both languages. This could potentially make Chat Away go over budget.*

*Another business constraint also comes from the outsourcing of the project. Depending on the company used for the servers of this application, Chat Away could go over budget due to cloud storage space, or data cap restrictions imposed by the outsourced company. The outsourcing could also affect how the program itself adapts to the compatibility of companies other than the outsourced company.*