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CS-230

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2-1 Assignment: Software Design Template

**Chat Away**

# Software Design Template

Version 1.0

A black and white chat logo

Description automatically generated

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## Document Revision History

| Version | Date | Author | Comments |
| --- | --- | --- | --- |
| 1.0 | 07/08/2024 | Joshua Hale | Initial version of the software design document |

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 is a social media company with a successful website looking to develop a mobile app to expand its market reach and increase revenue. The app needs to be available on both iPhone and Android platforms. The client aims to stay within their budget by outsourcing the project.

## Requirements

**Business Requirements:**

1. Develop a mobile app available on both iPhone and Android platforms.
2. Enhance user engagement and attract a larger customer base.
3. Keep the development process within the allocated budget.

**Technical Requirements:**

1. Ensure compatibility with the latest versions of iOS and Android operating systems.
2. Include features available on the existing website, such as user profiles, messaging, and notifications.
3. Integrate the app with the existing backend systems used by the website.

## Design Constraints

**1. Cross-Platform Compatibility:**

* **Constraint:** The app must work seamlessly on both iOS and Android devices.
* **Rationale:** Ensures a broader reach and consistent user experience across different platforms.

**2. Budget Limitations:**

* **Constraint:** The development must be cost-effective to stay within the client's budget.
* **Rationale:** Outsourcing the project helps manage costs, but the solution must still meet quality standards without exceeding the budget.

**3. Integration with Existing Systems:**

* **Constraint:** The app must integrate with the current backend infrastructure used by the website.
* **Rationale:** Ensures data consistency and streamlined operations across both platforms, avoiding the need for redundant systems.

## Rationale

**1. Cross-Platform Compatibility:**

* Ensuring the app works on both iOS and Android platforms addresses the client's requirement to reach a larger audience. Utilizing frameworks like React Native or Flutter can facilitate cross-platform development, making it easier to maintain and update the app across different operating systems.

**2. Budget Limitations:**

* Managing development costs is crucial for the client. By outsourcing to a cost-effective development firm and using open-source tools where possible, the project can stay within budget without compromising on quality.

**3. Integration with Existing Systems:**

* Integrating the app with existing backend systems is essential for maintaining data integrity and providing a seamless user experience. This constraint ensures that the app can leverage the current infrastructure, reducing development time and costs associated with building new systems.