
TCU Computer Science

**MotivateMe
Software Requirements Specification**

Version <1.0>

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Revision History

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Software Requirements Specification

Introduction

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Purpose

This document provides a comprehensive Software Requirements Specification (SRS) for the *MotivateMe* application. This application aims to provide users with daily motivational quotes, reminders, and tools to enhance their productivity and well-being. The system will allow users to set goals, track their progress, and receive inspiration through notifications and personalized features.

Scope

The *MotivateMe* project will consist of a mobile application designed for Android and iOS users, offering a clean, user-friendly interface for receiving motivational quotes, setting goals, and managing personal progress.

Definitions, Acronyms, and Abbreviations

- *MotivateMe*: The mobile application that delivers motivational content and tools for self-improvement.
- *API*: Application Programming Interface, used for integrating external services like quote databases.
- *Backend*: The server-side component that handles user data and interactions.

Overall Description

Product Perspective

The *MotivateMe* application will allow users to customize their motivational experience, including personalized daily quotes, reminders, and motivational content based on user preferences and goals. The app will interact with a backend system to store user data and serve motivational content dynamically.

Product Functions

- Provide daily motivational quotes.
- Allow users to set personal goals and track progress.
- Send push notifications with motivational reminders.
- Store user preferences for personalization.

User Characteristics

The target audience includes individuals seeking daily motivation and productivity tools. Users may be students, professionals, or anyone interested in self-improvement.

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Operating Environment

The system will operate on the following platforms:

- Android OS version 8.0 and above
- iOS version 12.0 and above

The backend system will run on a cloud server using Node.js and MongoDB for data storage, with APIs providing integration for external quote sources.

Design and Implementation Constraints

- Frontend must be implemented using React Native.
- Backend must use Node.js for server-side logic and MongoDB for data storage.
- The system must be responsive and optimized for both Android and iOS devices.

Assumptions and Dependencies

- It is assumed that the app will be available for download on the Google Play Store and Apple App Store.
- The app will rely on an internet connection for fetching motivational quotes and syncing user data.

Specific Requirements

Functional Requirements

1. Daily Quotes: The app shall fetch a new motivational quote each day from an external quote API (e.g., Quotable API).
2. Personalized Notifications: Users can set the time for daily motivational notifications.
3. Goal Setting: Users shall be able to set personal goals and track their progress.
4. Progress Tracker: The app shall allow users to input milestones and monitor progress over time.

Data Requirements

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Logical Data Model

The data model includes the following primary entities:

- User: Stores user-specific data such as username, preferences, and progress.
- Quote: Stores motivational quotes, including text, author, and category.
- Goal: Stores user goals, including the title, description, and completion status.

Data Dictionary

Data Element	Description	Data Type	Length	Allowed Values
User ID	Unique identifier for each user	String	36	Any alphanumeric string
Quote Text	The motivational quote text	String	255	Any text
Goal Title	The title of the user's goal	String	100	Any text
Goal Progress	Numeric value representing progress percentage	Integer	-	0 to 100

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Reports

- User Progress Report: A report showing the user's goal progress over a specific period.
- Quote History Report: A history of quotes shown to the user, with timestamps.

Data Acquisition, Integrity, Retention, and Disposal

- DI-1: User data will be stored and retained for the duration of the user's account unless the user chooses to delete it.
- DI-2: Quotes fetched from external APIs will be retained temporarily, with daily updates.

External Interface Requirements

User Interfaces

- UI-1: The app's screens must conform to modern mobile UI/UX standards, ensuring ease of navigation and accessibility.
- UI-2: Each page will have an option for the user to access a help section detailing how to use the app.
- UI-3: The app must support both portrait and landscape orientations, with all content properly displayed.

Software Interfaces

- SI-1: The app will query the Quotable API to fetch daily motivational quotes.
- SI-2: The app will use Firebase Cloud Messaging to send push notifications to users.

Hardware Interfaces

There are no specific hardware interfaces required beyond standard mobile device capabilities (e.g., push notifications, local storage).

Communications Interfaces

- CI-1: The app will communicate over HTTPS to securely fetch quotes and sync user data.
- CI-2: The app will support push notifications through Firebase Cloud Messaging.

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Quality Attributes

Usability

- USE-1: The app shall be intuitive, with users able to make a request or track progress with minimal effort.
- USE-2: The app shall be easy to learn, with 95% of new users completing their first goal setup within 5 minutes of launching the app.

Performance

- PER-1: The app shall accommodate up to 100,000 active users with no more than 5% downtime.
- PER-2: 95% of the app's features shall respond within 2 seconds, even with heavy usage.

Security

- SEC-1: User data shall be stored securely with encryption at rest and in transit.
- SEC-2: User authentication will be required for goal setting and tracking progress.

Availability

- AVL-1: The system shall be available 99% of the time between 5:00 A.M. and midnight local time.

Other Requirements

Internationalization and Localization

- The app shall initially support English, with plans for Spanish localization based on user demand.