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Software requirements specifications

1. Introduction

1.1 Purpose

The purpose of this SRS is to provide a detailed description of the *Momento* application, outlining its objectives, features, and functionalities. This document serves as a guide for developers, designers, and stakeholders to ensure a clear understanding of the system's requirements.

1.2 Scope

Momento is a visual journaling app designed for iOS devices, enabling users to capture daily moments through photos, track their moods, and reflect on their experiences. Key features include:

- Daily photo capture with vintage filters
- Mood check-ins
- Daily inspirational quotes
- Monthly recaps
- Secure data storage using Firebase

The app provides a streamlined alternative to traditional journaling, making self-reflection effortless and visually engaging.

1.3 Definitions, Acronyms, and Abbreviations

- SRS: Software Requirements Specification
- iOS: Apple's mobile operating system
- Firebase: A backend-as-a-service (BaaS) platform developed by Google for app development and data storage

1.4 References

- iOS Development Documentation
- Firebase API Documentation
- Human Interface Guidelines by Apple

1.5 Overview

This document details the functional and non-functional requirements of *Momento*, providing a comprehensive guide to its intended capabilities and user interactions.

2. Overall Description

2.1 Product Perspective

Momento offers a unique approach to journaling by focusing on visual and emotional aspects, differentiating itself from traditional text-based journaling apps. It is designed to be lightweight, user-friendly, and intuitive for creative individuals.

2.2 Product Functions

- Daily Photo Capture: Allows users to take photos with optional vintage filters to document daily moments.
- Mood Check-ins: Enables users to select mood icons representing their emotional state.
- Daily Quote Generator: Displays an inspirational quote each day to motivate users.
- Monthly Recap: Compiles photos and moods into a visual summary of the month.
- Archive Access: Provides organized storage of past entries for easy retrieval.

2.3 User Characteristics

The target users are creative individuals and busy professionals who prefer a quick, visual method to capture and reflect on their daily experiences. These users seek an aesthetically pleasing and intuitive journaling experience.

2.4 Constraints

- The application must comply with Apple's App Store guidelines.
- Data privacy and security must adhere to relevant regulations.
- The app must function smoothly on iOS devices with iOS 14 or later.

2.5 Assumptions and Dependencies

- Users have access to an iOS device with a camera.
- An active internet connection is available for data synchronization with Firebase.
- The app will be updated periodically to improve user experience and maintain compatibility with iOS updates.

3. Specific Requirements

3.1 Functional Requirements

- User Registration and Login
    - Users must be able to create an account and log in securely.
- Photo Capture

    - The app shall allow users to capture photos using the device's camera.
    - Users can apply vintage filters to photos.
- Mood Selection
    - Users can select from a predefined set of mood icons.
- Quote Display
    - A new inspirational quote shall be displayed daily.
- Data Storage
    - All user data shall be stored securely in Firebase.
- Monthly Recap Generation
    - The app shall generate a visual summary of the user's monthly entries.

3.2 Non-Functional Requirements

- Performance
    - The app should load the home screen within 2 seconds.
- Usability
    - The user interface shall be intuitive and easy to navigate.
- Reliability
    - The app must handle data synchronization without data loss.
- Security
    - User data must be encrypted during transmission and storage.

A. Glossary

- Mood Check-in: A feature allowing users to log their emotional state with icons.
- Vintage Filter: A camera effect that applies a nostalgic aesthetic to photos.
- Monthly Recap: A feature that compiles past entries into an organized visual summary.

B. Analysis Models

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