Software Requirement Specification (SRS) for PEACE Meditation App

1. Introduction

1.1 Purpose

The purpose of this Software Requirement Specification (SRS) document is to provide a comprehensive overview of the functional and non-functional requirements for the development of the PEACE Meditation App. This document serves as a foundation for the design, development, testing, and evaluation phases of the project.

1.2 Scope

The PEACE Meditation App aims to facilitate mindfulness practices, guided meditation sessions, and mental well-being enhancement for users. The app will cater to users with different roles, including unregistered users, System Administrators, and regular Users.

It will provide a wide range of features such as onboarding, social sign-up, meditation exercises, audio/video content, personalized sessions, progress tracking, and more.

1.3 Definitions, Acronyms, and Abbreviations

- SRS: Software Requirement Specification
- UI: User Interface
- API: Application Programming Interface

1.4 References

- Project Proposal for the PEACE Meditation App
- Savvycom. "Meditation App Development."

1.5 Overview

This SRS document outlines the requirements that the PEACE Meditation App must fulfill. It covers both functional and non-functional aspects, aiming to guide the development team in creating a successful and user-friendly application.

2. Overall Description

2.1 Product Perspective

The PEACE Meditation App is a standalone mobile application available for installation on iOS and Android platforms. It offers users access to meditation exercises, guided sessions, and personalized content, promoting mindfulness and mental well-being.

2.2 Product Features

The PEACE Meditation App will include the following key features:

- User Roles:
    - Unregistered User: Can view basic information page only.
    - System Administrator: Manages app content, users, and configurations.
    - Regular User: Engages in meditation exercises, accesses content, and tracks progress.
- Functionality:

- Onboarding: New users can register and create profiles.
- Social Sign-up: Users can register via social media accounts.
- Profile Management: Users can update and manage their profiles.
- Meditation Exercise Sessions: Users can access various meditation sessions.
- Audio/Video for Guided Meditation: Users can listen to guided audio and video content.
- Favorite Meditation Tracks and Sessions: Users can bookmark preferred content.
- Meditation Sessions by Level: Sessions categorized as beginner, intermediate, and advanced.
- Meditation Guide Sessions: Users can have video consultations with meditation experts.
- Push Notifications: Users receive notifications for session reminders.
- Customer Support & Feedback: Users can access customer support and provide feedback.
- Progress Tracking & Analytics: Users can track their progress and receive analytics.
- Customized Sessions: Sessions personalized based on age, gender, preferences, etc.

2.3 User Classes and Characteristics

The app caters to the following user classes:

- Unregistered Users: Casual visitors who can access basic information.
- System Administrators: Manage app content, user accounts, and configurations.
- Regular Users: Engage in various app features, including meditation exercises.

2.4 Operating Environment

The PEACE Meditation App will be developed for iOS and Android platforms, requiring devices with compatible hardware specifications and operating system versions.

2.5 Design and Implementation Constraints

- The user interface must be intuitive, visually appealing, and consistent.
- Integration with social media platforms for sign-up and sharing.
- The app should follow design guidelines for both iOS and Android platforms.

- Data security and user privacy must be maintained.

2.6 User Documentation

User documentation will be provided within the app and on the official website. It will cover app usage, features, settings, and troubleshooting.

2.7 Assumptions and Dependencies

- Users have devices meeting hardware and software requirements.
- APIs for social media sign-up and push notifications will be available and integrated.

3. Specific Requirements

3.1 External Interface Requirements

3.1.1 User Interfaces

The app will have the following user interfaces:

- Login and Registration Screens
- Dashboard Displaying Meditation Sessions
- Profile Management and Settings Screens
- Guided Meditation Audio/Video Player
- Progress Tracking and Analytics Interfaces

3.1.2 Hardware Interfaces

The app will utilize device sensors for progress tracking and user interactions.

3.1.3 Software Interfaces

The app will integrate with social media platforms for sign-up and authentication. Additionally, it will utilize push notification services for reminders.

3.1.4 Communication Interfaces

The app will require an internet connection for content updates, synchronization, and push notifications.

3.2 Functional Requirements

The app must fulfill the functional requirements as outlined in the "Objectives" section of the project proposal.

3.3 Performance Requirements

- The app should load meditation content within 2 seconds.
- Video streaming should not experience buffering during playback.
- The app should be responsive to user interactions.

3.4 Design Constraints

- The app's user interface must follow established design guidelines for each platform.
- Visual elements and color schemes should be visually appealing and promote relaxation.

3.5 Software System Attributes

3.5.1 Reliability

- The app should consistently provide access to meditation content.
- User data and session progress should be reliably stored and synchronized.

3.5.2 Availability

- The app should be available for download and use 24/7.
- Scheduled maintenance should be communicated to users and conducted during off-peak hours.

3.5.3 Security

- User data, including login credentials, must be securely stored and transmitted.
- Secure authentication mechanisms should be implemented to prevent unauthorized access.

3.5.4 Maintainability

- The app's codebase should be well-organized and maintainable.

- Updates and bug fixes should be efficiently deployable without disrupting user experience.

3.5.5 Portability

- The app should be developed using cross-platform frameworks to facilitate future portability to different platforms.

4. Appendix

4.1 Glossary

- SRS: Software Requirement Specification
- UI: User Interface
- API: Application Programming Interface