

Software Requirements Specification

for

AloneLess

Version 1.0 approved

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Revision History

Name	Date	Reason For Changes	Version
Maxim, Maryam, Tyece	19/11/20 20	Requirements change	2.0

1. Introduction

1.1 Purpose

During the times of pandemic people are more stressed than ever. To somehow help in this situation we are developing an application for our final project which will prompt users to journal. There are many researches which prove that journaling helps remove stress, which we hope will be reduced after using this application.

1.2 Document Conventions

Font: Arial.

Font size: 11 em.

1.3 Intended Audience and Reading Suggestions

This document is intended for Professor Mai Oudah and TA Dena.

1.4 Product Scope

AloneLess is a cross platform mobile application that allows for its users to have access to many mental health resources such as daily journal entries and emotion tracking. Due to the pandemic, there has been an increase in stress due to loss of jobs, fear for health and lack of

social communication and as such mental health is a major concern. Hopefully, this app will help to alleviate some of the stress experienced during this time by allowing individuals to let go of their emotions in a thoughtful way.

1.5 References

NA

2. Overall Description

2.1 Product Perspective

This product is a new, self-contained system.

2.2 Product Functions

- Users will have daily check ins, mood tracking and daily journal prompts.
- Users will have access to their previous journals and prompts.
- Users will be able to track their emotions and stress levels daily.

2.3 User Classes and Characteristics

Any person of any class/privilege/educational level/experience level can join

2.4 Operating Environment

This is a cross-platform app that will be hosted both on the latest iOS and Android .

2.5 Design and Implementation Constraints

Time Constraints:

The app should be designed and built in 5 or less weeks which is a very short time.

Security considerations:

Since this app contains sensitive information, high security and encryption of data is important so that this information does not get into the wrong hands

2.6 User Documentation

Upon first registration of the app, the user will undergo a simple tutorial on how to use the main functions such as making a journal entry, tracing their emotions and complete one of the many mental exercises such as meditation or yoga.

2.7 Assumptions and Dependencies

- 1- one constraint would be the development of similar apps with similar purposes which will make us change the requirements partly or entirely
- 2- As of now the project does not have any dependencies on external factors other than the UI design for social media which a lot of mobile apps seem to have in common, but this might change once we start the development process

3. External Interface Requirements

3.1 User Interfaces

Below are some of the user interfaces we are going to use in our web application:

- 1- Link to the sign up page from the login page
- 2- Navigation bar, header, footer, about us
- 4- instructions for new users

3.2 Hardware Interfaces

The only hardware interface our application would be operating on will be mobile phones.

3.3 Software Interfaces

Software interfaces for our app are iOS and Android (it's a cross platform app).

3.4 Communications Interfaces

Secure file transit protocol and emails would be our communication interfaces.

4. System Features

4.1 Search person feature.

4.1.1 Description and Priority

Priority: high (10/10)

Description: the main feature of the application which will connect one person with another via random search engine. Since people are anonymous to each other, the main factor which will differentiate them is their keywords/adjectives as well as a random nickname will be assigned (i.e. Unicorn123 loves dogs and Netflix). Later on the user can change the random nickname assigned to a preferred nickname.

4.1.2 Stimulus/Response Sequences

User actions are simple for this feature: press the button “search new person”, which will randomly assign a new person with a random nickname to the user based on similar interests and keywords.

4.1.3 Functional Requirements

The requirements from the user is that he/she has to be registered in the system and have at least one keyword/interest associated with the profile.

REQ-1.1: Registered in the system

REQ-1.2: Have at least one keyword associated with profile

4.2 Reveal me.

4.2.1 Description and priority

Priority: low (3/10)

Description: After the two matched users are comfortable with each other there will be an option to reveal each other's names

4.2.2 Stimulus/Response Sequences

Actions: after 7 days of matching the users will get a new feature (reveal names) which only will apply if both users agree on it and both press it with a 30 minute span.

4.2.3 Functional Requirements

Requirements: be matched with the same person for 7 days. Mutual decision.
Both press within a 30 minute span.

REQ-2.1: Matched for 7 days

REQ-2.2: Both press it within a 30 minute span

4.3-4.10 More features TBD

5. Other Nonfunctional Requirements

5.1 Performance Requirements

- ❖ The app needs to work smoothly on both iOS and Android platforms, and maintain a similar look and feel as to ensure that users of either platform have the same experience.
- ❖ For the journal entries and emotions tracking, there needs to be a high enough storage capacity to hold all the daily entries that the app will receive.
- ❖ For the mental health activities functions such as meditation and yoga there needs to be a high execution time so that the functionalities operate at an adequate speed so that there is no lag when transitioning between different elements.

5.2 Safety Requirements

- ❖ The user must ensure that their login information is not shared with any individual as this is a journaling app and can contain sensitive information to the user.

5.3 Security Requirements

5.3.1 Data Encryption. The user's data shall be encrypted so that in the case of a breach in the system, sensitive information will not be readily available.

5.3.2 Regular Log-out. If the app is not being used for a while the user will be logged out. This eliminates the problem of a stranger gaining access to the mobile device and being able to see the user's sensitive information.

5.4 Software Quality Attributes

- ❖ The software will need to be portable as it will have to function on two different operating systems, iOS and Android, along with the various versions and devices that are running these operating systems

- ❖ The software will need to be robust as it will be available to end users, henceforth we will not want it crashing after a single error, hence error handling is a prominent feature of the software requirements.
- ❖ The software should also be easily maintainable, as certain functions such as the mental health exercises will continue to grow beyond the basic meditation and yoga exercises we have now. The ability to add more exercise and examples with ease is a pertinent feature of the software.

5.5 Business Rules

5.5.1. Since this app focuses on the alleviation of stress and anxiety through regular journalling, extra precautions need to be made so that information given by users are safely stored and not easily accessed by anyone but the user themselves. We will also provide a user interface that facilitates a calm and welcoming environment, so the user feels more prompted to use the app.

6. Other Requirements

6.1 Database Requirements. The database will have to be large enough to hold all the daily entries received from multiple users. It should also have encryption capabilities to ensure the safety of the user's data. The database must also have a fast fetch, and read throughput so that time is not lost looking for information.

Appendix A: Glossary

Appendix C: To Be Determined List

3.3;
4.3-4.10;
Appendix A;