

MENTAL HEALTH WEBSITE

Software Requirements Specification Document

SOFTWARE ENGINEERING(CODE)



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CATEGORY: Website

PURPOSE OF THIS DOCUMENT:

To define the purpose of our product, what we are building, individual requirements and proper delivery of the approval an SRS is made. The software requirements specification (SRS) is a document that describes what the software will do and how it will be expected to perform. It also describes the functionality the product needs to fulfil all stakeholders (business, users) needs.

PURPOSE OF THIS PROJECT:

The web app is made in consideration to the people who are suffering from common but threatening mental health issues. During the current pandemic many lives were destroyed due to mental health issues rather than the virus itself.

The Goal of this project is to develop a system that deals with day-to-day mental health issues like stress, anxiety, depression et al and spread awareness about the same. The software will provide with some relaxing activities while the main task is to develop a system that connects the someone suffering from mental health issues to a experienced and verified expert, and form a community where people can express their difficulties freely.

SCOPE OF THIS PROJECT:

In this system it will ensure people to get an expert advice from the people who are experienced and are certified to give advice to others. This platform could be utilized by the Doctors currently working in that hospital, as well as NGO people who would like to contribute their part.

The software will be showing following functionalities:

1. A Questionnaire to determine mental health status: There will be a basic questionnaire of 10-15 mins which will be determining ones mental health status by using certain algos in the backend to predict through those questions.
2. Spreading awareness about the mental health issues: It will be showing some facts and stats about the common mental health issues. With some help line numbers and ways to identify one of the same.
3. Some relaxing activities : It will also provide some online games to calm and relax ones mind, with soothing music and easing video clips.
4. An open portal to post: There will be open communication channel where users can post any thought or experience of their own choice and can also read others and also can message under these posts all while maintaining their anonymity.
5. Secure personal chats: The user can connect to other user or

the verified experts and can chat with them on a personal end to end channel. The chatting feature will be secure maintaining privacy but also will be secure of any abusive word or harming text.

Initially we plan to add these functionalities for the current project for small number of users.

In the future we aim widen its scope to a larger audience and hosting it on a bigger platform and also to add more to these functionalities.

INTRODUCTION:

The introduction is divided into the following sections:

Existing System

Proposed System

The website would be mainly for the people dealing with minor mental health issues like stress, depression, anxiety, panic disorder, PTSD & and various others. The site would serve as a place to identify these issues and some possible ways to deal with them. Also the it would also aim to make a open community for these people where they can interact with others with same issues or had same issues in the past and share their experience all while maintaining their anonymity. There would also be connectivity to some experts and some informative material available on the site.

ADVANTAGES

-Advantages for the Users:

- Exclusive mind relaxing games with positive quotes.
- Like minded people come together and share their thoughts, viewpoints and opinions on the ailment (which they may be suffering from or have suffered in the past or have seen a close one going through).
- People from NGOs can associate with our website and guide the patient to lead a better life.
- Our website is the junction point where the patient can seek advice from another person who have been through the same ailment.

FUNCTIONAL REQUIREMENTS

-Login: Both the user and admin will be able to login into the system via a valid email and password authentication.

- USER PORTAL:

-SITE HOME: There will be the questionnaire to attempt. These all will be available to user without logging in to the system.

-**Relaxing Zone:** In this section the user can play some relaxing games and also listen to some soothing music. This section is for escapism and to relax.

-**COMMUNITY:** This will be available after the login and here user can post any experience while maintaining anonymity but there would be a check for any harming text or toxicity and action would be taken immediately.

-**Test Record:** Under this section the user would be able to view all his previous test results that he had given in the site checking his progress. Also here would be record of any interaction of his with any expert through the site.

-**Profile:** In this activity, the user can edit some details about their profile and can also logout of the system.

NON-FUNCTIONAL REQUIREMENTS

-**SECURITY:** The admin and the user login would be kept separate so the admin would have the access over all the information in the database while the patient would have access only to his/her own information.

-**AVAILABILITY:** The servers and all its services will be available 24/7.

-**SCALABILITY:** Has been scaled to for small number of users with some experts for now.

TECHSTACK USED

Frontend: HTML, CSS, Tailwindcss, Javascript

Backend: Dajngo, Python,

Database: MySQL

Prototype: Figma

DEPLOYMENT

Operating System: Windows, MacOS, Linux.

Hardware Specification

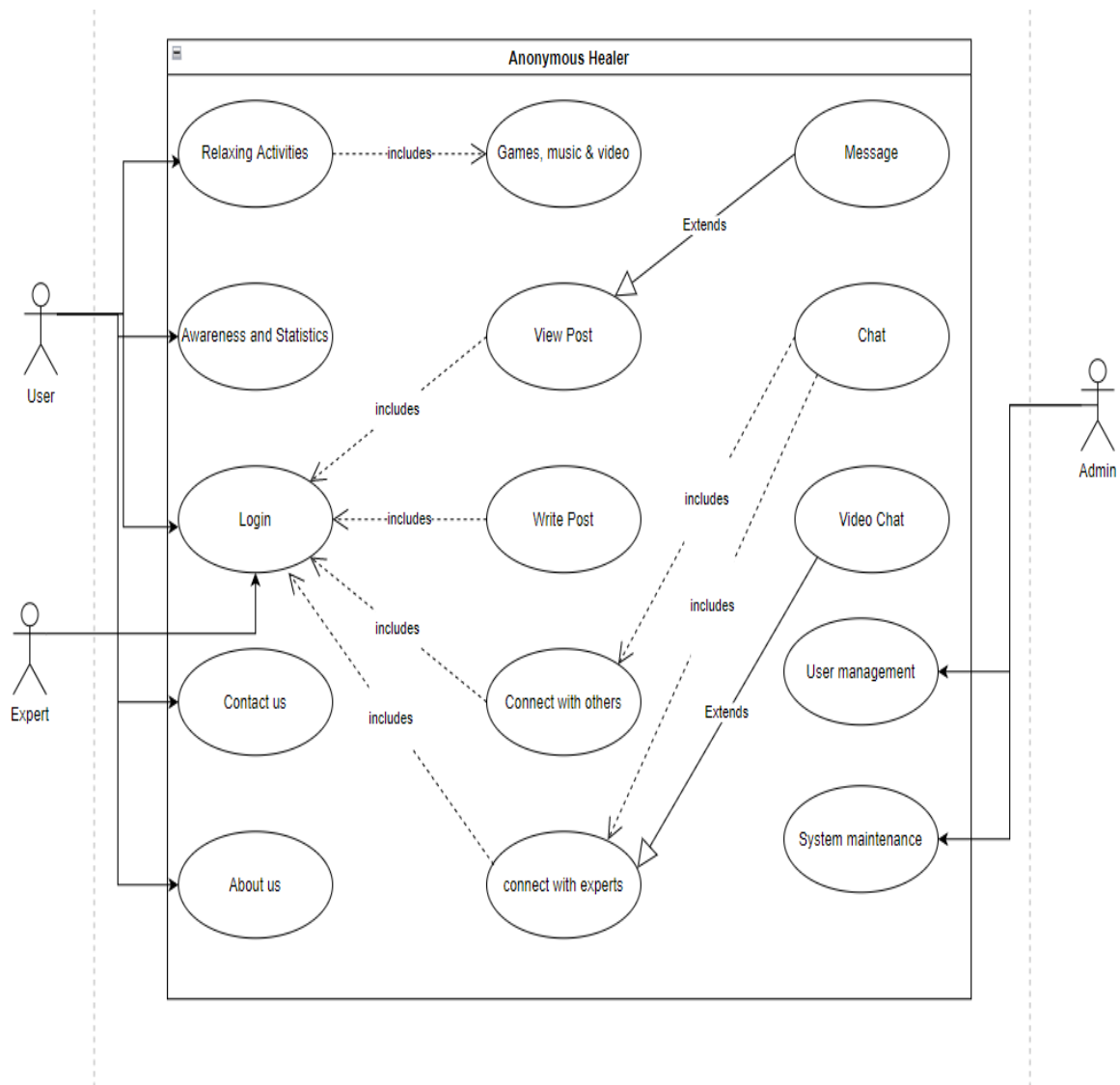
Processor: xxx

RAM: xxx

Hard Disk: xxx

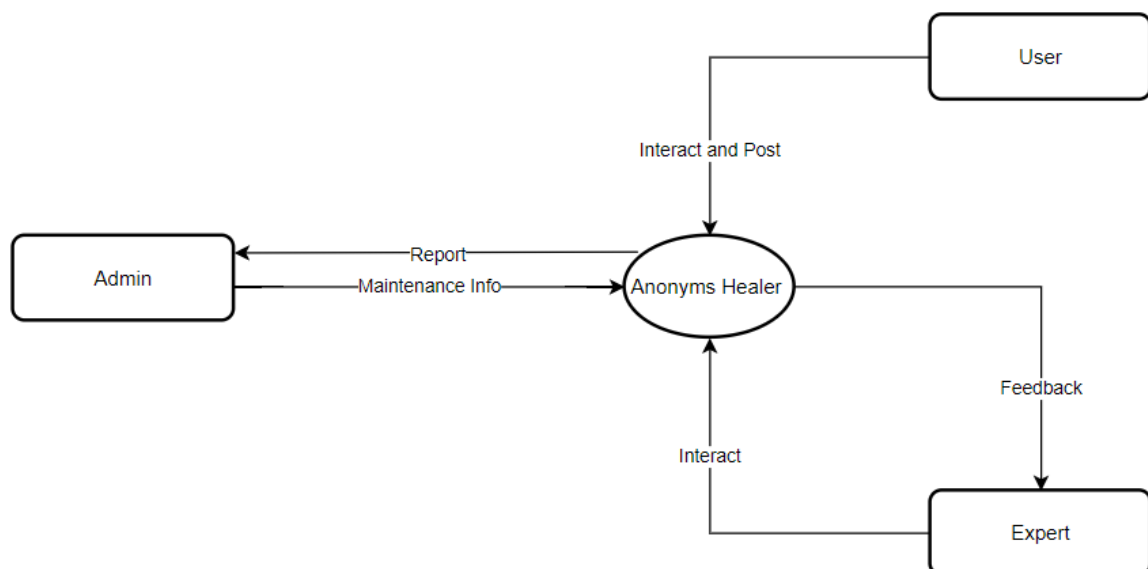
UML DIAGRAMS

1. USE CASE DIAGRAM



DFD

0-LEVEL



Data Dictionary (for Process)

Process name: Anonymous Healer

Process Description:

Inward flow(s): Maintenance info, interaction and post

Outward flow(s): Feedback and report

Process specification: Interacting with all the actors providing them with info and feedback

Data Dictionary (for Data flow)

Data flow name: Report

Data flow Description:

Input Source: Anonymous Healer

Output Source: Admin

Data Dictionary (for Data flow)

Data flow name: Maintenance Info

Data flow Description:

Input Source: Anonymous Healer

Output Source: Admin

Data Dictionary (for Data flow)

Data flow name: Interact

Data flow Description:

Input Source: Anonymous Healer

Output Source: Expert

Data Dictionary (for Data flow)

Data flow name: Report

Data flow Description:

Input Source: Anonymous Healer

Output Source: Admin

Data Dictionary (for Data flow)

Data flow name: Report

Data flow Description:

Input Source: Anonymous Healer

Output Source: Admin

1-LEVEL

