**SOFTWARE REQUIREMENTS DOCUMENT.**

**Software Project Management.**

**Nkuraija Gary Matthew BSCS3.**

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**MENTAL HEALTH APPLICATION SYSTEM.**

1. Introduction

Of all the fields in healthcare, the opportunity for digital transformation in mental

health is one of the greatest. This is partly because most mental health services

are limited to verbal exchanges that can be readily provided remotely.

That is, the gap between what people need and what current systems can deliver

in high, middle and low-income countries is currently so great that only a

revolution in access, quality and engagement through technology can meaningfully

address it. For modern health systems, digital mental health tools are not just a

future luxury, they are an urgent necessity.

The application is built to provide to provide an easily accessible, secure, safe, and

non-judgmental space for people dealing with mental health at the patient’s

convenience.

The application is reduced as much as possible to avoid errors while entering the data. It also provides error messages while entering invalid data. No formal knowledge is needed for the user to use this system. Thus, by this all it proves it is user-friendly. The Mental Health System, as described above, can lead to an error-free, secure, reliable and fast management system.

Every institution, whether big or small, has students having mental illness of various kinds

Anxiety Disorder, Depression, Bipolar Disorder, Post-Traumatic Stress Disorder (PTSD), Schizophrenia, Eating Disorders. The system will help provide a safe and secure space for the students to talk about these issues.

1.1 Purpose

The purpose of the Mental Health System is to automate the existing manual system with the help of computerized and full-fledged computer software, fulfilling their requirements, so that conversations with a professional can be kept secure and private for the user. The required software and hardware are easily available and easy to work with.

The Mental health System, as described above, can lead to an error-free, secure, reliable and fast communication system. It can assist the user to easily open up about their issues and rather not think about being shamed or outcast by their peers. Thus, it will help Mental Health in better utilization of resources. The organization can maintain computerized records without redundant entries. That means that one need not be distracted by information that is not relevant while being able to reach the information.

The aim is to automate its existing manual system of a face to face interaction with a health professional with the help of computerized equipment and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be kept private.

1.2 Intended audience & use

The main users of this system will be the ongoing students of the Uganda Christian University who need help with mental issues and grant them a safe, secure space place with no judgement over what they are going through at a particular time.

1.3 Scope

An online system will be applicable everywhere, where dependable internet exists. It will be a more efficient and easier way to have a conversation through which everyone can easily access it according to their head space as compared to the traditional face to face system.

The Mental Health System will allow any user to create an account. The user, after he/she has successfully created an account and approved, will have access to the system features. The system will allow registered users to have a conversation through a chat or a call.

The system also allows the admin to manage the system with full create, retrieve, update and delete (CRUD) functionality with regards to redundant users in the system.

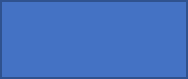
The Mental Health System has full email capabilities; the automated email functionality will be used to send payment detail notifications to members of the system as well as provide the admin with notifications.

The Mental Health application will have numerous constraints on what it can do. It will not allow the admin to be the common user but not to view user conversations. The system will allow the user to delete the conversations.

2. Overall Description

Following is the context or origin of the Mental Health System. Comparison between the Tradition payment system and the new system (Mental Health) can also be cleared through the system models.

**Traditional System.**

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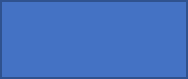
psychologist

Patient

In the Mental Health system, the user should have to visit a clinic physically for the interaction. This wastes a lot of time.

**New Mental Health System.**

Internet

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psychologist

Patient

After implementing the Mental Health System, different registered users of the University and organizations will be able to connect to their accounts through the internet connection. Time usage will be minimized. Thus, the conversation tasks will be done fast. Therefore, the use of the internet will be the key to ensure that all the conversation processes are done without any hindrance as compared to the traditional method with lots of hindrances.

2.1 Assumptions and Dependencies

Users:

We have assumed that all of the computer systems or mobile devices are in proper working conditions and that the user is capable of operating these system's basic functions including but not limited to being able to power on the system, login and open the Mental Health system with ease.

Psychologist:

We have assumed that the application will be running on a properly working web server and database system with an Internet connection that allows this system to perform all communications with the System users.

Assumptions:

•         The admin’s username and password may be hardcoded.

•         The Application will not affect the environment at all.

•         Different universities and organizations will feel free to adopt it because it will not be so expensive.

•         The admin cannot be a user receiving a conversation through the system.

•         Any user can edit their account information.

3. System Features and Requirements

 3.1 Functional Requirements

* The system shall allow the customer to view a detailed description of particular Psychologist
* The system must notify accounts of new users.
* The system must notify the admin of conversation taking place.
* The system should allow the manager to log in to the system using their username and password.
* The system shall allow the Psychologist to create a new user account.
* The system shall allow the users to change the account password
* The system shall allow Psychologist to change the account password.

3.2 External Interface Requirements

3.2.1 User interface

The system contains the following user interfaces:

* Login page for authenticating registered users. This screen should accept user email, password and authenticate against registered with information. It also provides features for new user registration and forgot passwords.
* Messaging page where the user and the Psychologist can have a safe and secure conversation in app.
* Search results page displays the results of search operation. The results should be paginated with configurable page size. It should allow the user to choose a Psychologist nearby or of preferred choice.

3.2.2 Hardware interface

The System must run over the internet, all the hardware shall be required to connect to the internet, computer, phone or tablet.

3.2.3 Software and communication interface

The system is hosted on a server so it requires a scripting language like PHP, etc. The system requires a database to store any conversation made on the system like MYSQL etc. The system also requires a domain name space for identification on the internet, the system shall use the HTTP protocol for communication over the internet and a web browser through which a user can be able to access the system.

3.4 Non-functional Requirements

3.4.1 Performance requirements

Performance should be Optimal because server queries involve small pieces of data. Changing screens will require very little computation and thus will occur very quickly. Server updates should only take a few seconds as long as the phone can maintain a steady signal.

3.4.2 SAFETY REQUIREMENTS

The system will not affect data stored outside of its servers nor will it affect any other applications installed on the user’s phone. It cannot cause any damage to the phone or its internal components. The only potential safety concern associated with this application applies to virtually all handset apps: Mental Health system should not be used while operating a vehicle or in any other situation where the user’s attention must be focused elsewhere.

3.4.3 SECURITY REQUIREMENTS

This application assumes that only the user or whoever is allowed will have access to the phone. a Google email address is required to verify the identity of the user upon opening the app and a password to authenticate the user’s identity’s conversations must be kept secure from any other user. To ensure that no fraudulent leaks occur.

3.4.4 SOFTWARE QUALITY ATTRIBUTES

The graphical user interface of the System is to be designed with usability as the priority. The app will be presented and organized in a manner that is both visually appealing and easy for the user to navigate. There will be feedback and visual cues such as notifications to inform users of updates and pop-ups to provide users with instructions.

To ensure reliability and correctness, there will be zero tolerance for errors in the algorithm

that computes and splits expenses between group members.

To maintain flexibility and adaptability, the app will take into account situations in which a user loses internet connection or for whatever reason cannot establish a connection with the server. These users will still be able to use the application, but any transactions posted while disconnected will be cached until the connection is restored.

The system is to be used on all platforms; thus, the software application has the advantage of being portable and convenient to use whenever and wherever. Overall, the app balances both the ease of use and the ease of learning.

3.4.5 Maintainable:

Each of the modules should be designed in such a way that a new module can easily be integrated with it, that is to say, the time required for a solution or its component to be fixed, changed to increase performance or other qualities, or adapted to a changing environment.

3.4.6 Scalability:

The system can handle the highest workloads under which the system will still meet the performance requirements.

3.4.7 Reliability and Availability

The system will be able to run without a failure for a given period under predefined conditions: that is services such as monitoring the availability of the origin infrastructure and rerouting requests when the origin is not available are put in place.

REFERENCES:

https://blog.bit.ai/software-requirements-document/