**Mental Health and Awareness**

**Abstract**

The project that we are going to build is to help people learn what is mental health is and what mental illness means and its types. This also help people to know their rating in their mental health and learn how to improve it.

So, we are going to build a website which contains

1. Login page
2. Mental health rating and Solution
3. Page to make people aware of what mental health is and its importance and types.
4. Covid-19 impact on mental health.
5. Discussion forum

**Technologies**

1. Elastic search
2. NLP-Natural language processing
3. ML-Machine Learning
4. Speech recognition
5. Web development

**Languages**

1. Python (Backend)
2. JavaScript (if needed)
3. HTML
4. CSS

**Project Design (For Front End)**

1. **Login\Sign up page:**

Just a login page for the users. For new users it’s going to be sign up. And for the old users, it’s going to be login page and we also store their history.

1. **Home Page:**

Shows all the functionalities present in our website.

1. **Analysis and Solution:**

Main page of the website which includes backend. It contains 2 stages.

Stage-1:

This stage is further divided into two sub stages.

1.User can select an option out of two where one is text and the second is audio/video. And we ask them to write/speak what they are thinking of at that particular time or at any situation where they are struggling. So, that we can know the emotions they have.

2.Then in next sub stage we are going to provide a bunch of questions to answer. So, that we can give the mental health rating of them. The users can use audio to give answers or can choose text just like a google search box.

Stage-2:

This stage unlocks only if they clear stage 1 and have lo mental health rating.

In this we again prepare questions for the user to analyze the type of illness they are going through and provide a solution to them and if they have lo mental health rating, we provide Psychiatrist details in some main cities so that they can contact if it is something serious. (The users can use audio to give answers or can choose text just like a google search box.)

1. **Awareness Page:**

So, this page is mostly about what mental health is how is it important. And we should collect main definitions for this to make up a blog for this page.

1. **Covid-19 impact on mental health:**

Same as the above instructions but we provide some covid-19 guidelines and encouragement and its effects in mental health

1. **Discussion Forum:**

Here user can talk to other people about their problems anonymously\*.

**Project Design (For Back End)**

* We use technologies only in **Analysis and solution page**.

1. Elastic search for extracting keywords and emotions from substage-1 in stage-1.
2. Speech recognition for audio->text, video->audio->text.
3. NLP for analyzing emotions in tone of voice in video or audio.
4. ML for classifying type of illness and for rating mental health.

**Data Required**

Need to collect

**Algorithms to use**

Yet to confirm

**References**

Still need to look into it

**(UPDATE IF YOU HAVE ANYTHING)**