A Socially Relevant Project Report on

MENTAL HEALTH AWARNESS WEBSITE

is submitted in partial fulfillment of the requirement for the award of the Degree of

Bachelor of Technology

to

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR, ANANTHAPURAMU

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NARAYANA ENGINEERING COLLEGE::NELLORE

AUTONOMOUS

(Affiliated to Jawaharlal Nehru Technological University Anantapur, Ananthapuramu)

JANUARY 2022

NARAYANA ENGINEERING COLLEGE::NELLORE

AUTONOMOUS

(Affiliated to Jawaharlal Nehru Technological University Anantapur, Ananthapuramu)

Department of Computer Science and Engineering

CERTIFICATE

This is to certify that the project report entitled "MENTAL HEALTH AWARNESS WEBSITE" being submitted by **N. Ramya (19711A0566), Sk. Anmol (19711A0591), P. Bhargavi (19711A0576), Monika Tanmai (19711A05A8), M. Yeshaswi (18711A0533)** in partial fulfillment for the award of the Degree of bachelor of Technology in Computer science and Engineering Department to the Jawaharlal Nehru Technological University Anantapur, Anantapur is a record of bonafide work carried out by them under my guidance and supervision.

The results embodied in this project report have not been submitted to any other University or Institute for the award of any Degree or Diploma.

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HOD
Department of CSE

Date of Viva-Voce_____

INTERNAL EXAMINER

EXTERNAL EXAMINER

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ABSTRACT

The main aim of the website of the Mental Health Awareness is to learn about mental health, help themselves in their mental struggles, help others who face mental struggles, or support campaigns promoting mental health awareness. The goal for this project was to create a website where users with different needs can retrieve information on mental health without having to sift through multiple webpages. Right now, it is difficult to find a platform that offers educational value for people who have never faced or even heard about these issues and at the same time offers practical help for the ones who have a great deal of experience with such problems and are looking for ways on resolving them. Since mental health issues are exceptionally prevalent in modern society, and since stigma leaves the victims of mental illnesses belittled, misinformed, and uneducated, we attempted to create a website within which users can access resources to educate themselves, help themselves, help others, and spread awareness on mental health. On our website, users can easily navigate across different pages to find the information that they are looking for depending on their interests within the area of mental health and mental health awareness.

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LIST OF FIGURES

CHAPTER 1

INTRODUCTION

This chapter gives an overview about the aim objectives background and operation environment of the system.

1.1 PROJECT AIMS AND OBJECTIVES

The project aims and objectives that will be achieved after completion of this project are discussed in this subchapter. The aims and objectives are as follows:

- Main page of mental health website.
- Separate login and registration pages.
- Page to search for help searching psychiatrists, yoga centers.
- Page where users can post their stories of past experiences with mental health issues.
- A separate page where user can read stories posted by others.

1.2 BACKGROUND OF PROJECT

Mental illnesses affect 19% of adult population, 46% of teenagers,13% of children each year. 970 million people worldwide have a mental health or substance abuse disorder. (Our World in Data, 2018)Anxiety is the most common mental illness in the world, affecting 284 million people. (Our World in Data, 2018) Globally, mental illness affects more females (11.9%) than males (9.3%). (Our World in Data, 2018) The demand for mental health services is stronger than ever, with nearly six in 10 (56%) Americans seeking or wanting to seek mental health services either for themselves or for a loved one. These individuals are skewing younger and are more likely to be of lower income and have a military background. The large majority also believe mental health is just as important as physical health. Break the mental health stigma that helps so many people suffering in secret. The need for mental health treatment, more mental health resources will become available.

1.3 OPERATION ENVIRONMENT

PROCESSOR	INTEL CORE PROCESSOR FOR BETTER PERFORMANCE
OPERATING SYSTEM	WINDOWS 10
MEMORY	4GB RAM OR MORE
HARD DISK SPACE	32GB OR MORE
DATABASE	SQLite

CHAPTER- 2

SOCIAL RELEVANCE

Mental illnesses affect 19% of adult population, 46% of teenagers,13% of children each year. 970 million people worldwide have a mental health or substance abuse disorder. (Our World in Data, 2018)Anxiety is the most common mental illness in the world, affecting 284 million people. (Our World in Data, 2018) Globally, mental illness affects more females (11.9%) than males (9.3%). (Our World in Data, 2018) The demand for mental health services is stronger than ever, with nearly six in 10 (56%) Americans seeking or wanting to seek mental health services either for themselves or for a loved one. These individuals are skewing younger and are more likely to be of lower income and have a military background. The large majority also believe mental health is just as important as physical health. Break the mental health stigma that helps so many people suffering in secret. The need for mental health treatment, more mental health resources will become available.

CHAPTER -3

SYSTEM ANALYSIS

In this chapter, we will discuss and analyze about the developing process of Mental health awareness website including software requirement specification (SRP) and comparison between existing and proposed website. The functional and non-functional requirements are included in SRS part to provide complete description and overview of website requirement before the developing process is carried out. Besides that, existing vs proposed provides a view of how the website will be more user friendly than the existing ones.

3.1 SOFTWARE REQUIREMENT SPECIFICATION

GENERAL DESCRIPTION:

PRODUCT DESCRIPTION:

Mental health awareness website is a website to get aware about the mental health issues and ways to overcome them.

PROBLEM STATEMENT:

The problem occurred before having an online website for mental health awareness includes:

The websites with bad user experience and user interface. The user finds difficulty in interacting with the website. Website with bad search engine optimization. website takes longer than a couple of seconds to load. Requiring someone to fill out a long, complicated form that calls for personal information can turn some people off. Non-working click-to-links.

SYSTEM OBJECTIVES:

This new website is developed which has a good user experience and a good user interface.

- The website can add user, validate user.
- The website that has search engine optimization.

- Website that no longer make users to fill long forms from users.
- Website which can load in a second.

SYSTEM REQUIREMENTS

NON-FUNCTIONAL REQUIREMENTS

- Product Requirements

EFFICIENCY REQUIREMENT:

When a Mental health awareness website will be loaded in a few seconds. Also the search engine is fast.

RELIABILITY REQUIREMENT:

The system should accurately perform user registration ,user validation.

USABILITY REQUIREMENT:

The website is designed for a user-friendly environment so that users can perform the various tasks easily and in an effective way .

IMPLEMENTATION REQUIREMENT:

In implementing whole website it uses html, CSS, JavaScript in front end with Django as server-side framework which will be used for database connectivity and the backend i.e. the database part is developed using SQLite.

DELIVERY REQUIREMENTS:

The whole system is expected to be delivered in 2 months of time with a weekly evaluation by the project guide.

FUNCTIONAL REQUIREMENTS

REGISTER NEW USER:

This feature can be performed by all users to register new user to create account.

Functional Requirements:

- Website must be able to verify if username is unique.
- Website must confirm the password.

USER LOGIN

Description of feature:

This feature used by the user to login into website. The user id and password will be verified with the registration users in database and if invalid username is their user is allowed not be to access the main functionalities of the website.

Functional requirements:

- The system must only allow user with valid username and password to get access to main functionalities of website.
- The system performs authorization process which decides what user level can access to.
- The user must be able to logout after they finished using website.

2.1.4 SOFTWARE AND HARDWARE REQUIREMENTS

This section describes the software and hardware requirements of the system

2.1.4.1 SOFTWARE REQUIREMENT:

- Operating system- Windows 10 is used as the operating system as it is stable and supports more features and is more user friendly.

- Development tools and Programming language- HTML is used to write the whole code and develop webpages with CSS, java script for styling work and Django framework is used for sever side programming.

2.1.4.2 HARDWARE REQUIREMENT:

- Intel core i5 2nd generation is used as a processor because it is fast than other processors an provide reliable and stable and we can run our pc for longtime.
- Ram 4gb is used as it will provide fast reading and writing capabilities and will in turn support in processing.

3.2 EXISTING VS PROPOSED SYSTEM:

- The websites with bad user experience and user interface. The current website has a good user experience and good user interface
- The user finds difficulty in interacting with the existing websites. The proposed Website is easy to interact.
- Existing websites will make users to fill out long complicated form that calls for personal information can turn some people off. Proposed website has less complicated forms to fill.

3.3 SOFTWARE TOOLS USED

The whole Project is divided in two parts the front end and the back end.

Front end

The front end is designed using of Html ,CSS, Java script

HTML - Hypertext Markup Language is a computer language that makes up most web pages and online applications. A hypertext is a text that is used to reference other pieces of text, while a markup language is a series of markings that tells web servers the style and structure of a document. The average website includes several different HTML pages. For instance, a home page, an about page, and a contact page would all have separate HTML files.HTML documents are files that end with a .html or .htm extension. A web browser reads the HTML file and renders its content so that internet users can view it.All HTML pages have a series of HTML elements, consisting of a set of tags and attributes. HTML elements are the building blocks of a web page. A tag tells the web browser where an element begins and ends, whereas an attribute describes the characteristics of an element.

The three main parts of an element are:

i. Opening tag – used to state where an element starts to take effect. The tag is wrapped with opening and closing angle brackets. For example, use the start tag <p> to create a paragraph.
ii. Content – this is the output that other users see.

iii. Closing tag – the same as the opening tag, but with a forward slash before the element name. For example, </p> to end a paragraph.

CSS-CSS stands for Cascading Style Sheets. It is the language for describing the presentation of Web pages, including colours, layout, and fonts, thus making our web pages presentable to the users.CSS is designed to make style sheets for the web. It is independent of HTML and can be used with any XML-based markup language. Now let's try to break the acronym:

Cascading: Falling of Styles

Style: Adding designs/Styling our HTML tags

Sheets: Writing our style in different documents

It can also be used to allow the web page to display differently depending on the screen size or device on which it is being viewed. While the author of a document typically links that document to a CSS file, readers can use a different style sheet, perhaps one on their own computer, to override the one the author has specified.

JAVA SCRIPT- **JavaScript** (**JS**) is a dynamic computer programming language. It is most commonly used as part of web browsers, whose implementations allow client-side scripts to interact with the user, control the browser, communicate asynchronously, and alter the document content that is displayed. It is also being used in server-side programming, game development and the creation of desktop and mobile applications. JavaScript is a prototype-based scripting language with dynamic typing and has first-class functions. The key design principles within JavaScript are taken from the Self and Scheme programming languages. It is a multi-paradigm language, supporting object-oriented, imperative, and functional programming styles.

Django- is a high-level Python Web framework that encourages rapid development and clean pragmatic design. A Web framework is a set of components that provide a standard way to develop websites fast and easily. Django's primary goal is to ease the creation of complex database-driven websites. Some well-known sites that use Django include PBS, Instagram, Disqus, Washington Times, Bitbucket and Mozilla.

Django is an open-source framework for backend web applications based on Python — one of the top web development languages. Its main goals are simplicity, flexibility, reliability, and scalability.

Django has its own naming system for all functions and components (e.g., HTTP responses are called “views”). It also has an admin panel, which is deemed easier to work with.

Backend:

SQLite-SQLite is a Relational Database Management System (RDBMS) comes in Django as default database. In contrast to many other Database management system, SQLite is not client-side database engine. Rather, it is embedded into the end program.

SQLite is a popular choice an embedded database software for local/client storage in application software such as web browsers. It is arguably the most widely deployed database engine, as it is used today by several widespread browsers, operating systems, and embedded systems (such as mobile phones), among others. SQLite has bindings to many programming languages.

CHAPTER -4

SYSTEM DESIGN

4.1 UML DIAGRAMS:

UML stands for Unified Modeling Language. UML is an institutionalized broadly useful demonstrating dialect in the field of item arranged programming building. The standard is overseen, and was made by, the Object Management Group.

The objective is for UML to turn into a typical dialect for making models of article arranged PC programming. In its present structure UML is embodied two noteworthy segments: a Meta- model and documentation. Later on, some type of system or procedure might likewise be added to; or connected with UML.

4.1.1 USECASE DIAGRAMS:

As the most known diagram type of the behavioural UML types, Use case diagrams give a graphic overview of the actors involved in a system, different functions needed by those actors and how these different functions interact. It's a great starting point for any project discussion because you can easily identify the main actors involved and the main processes of the system.

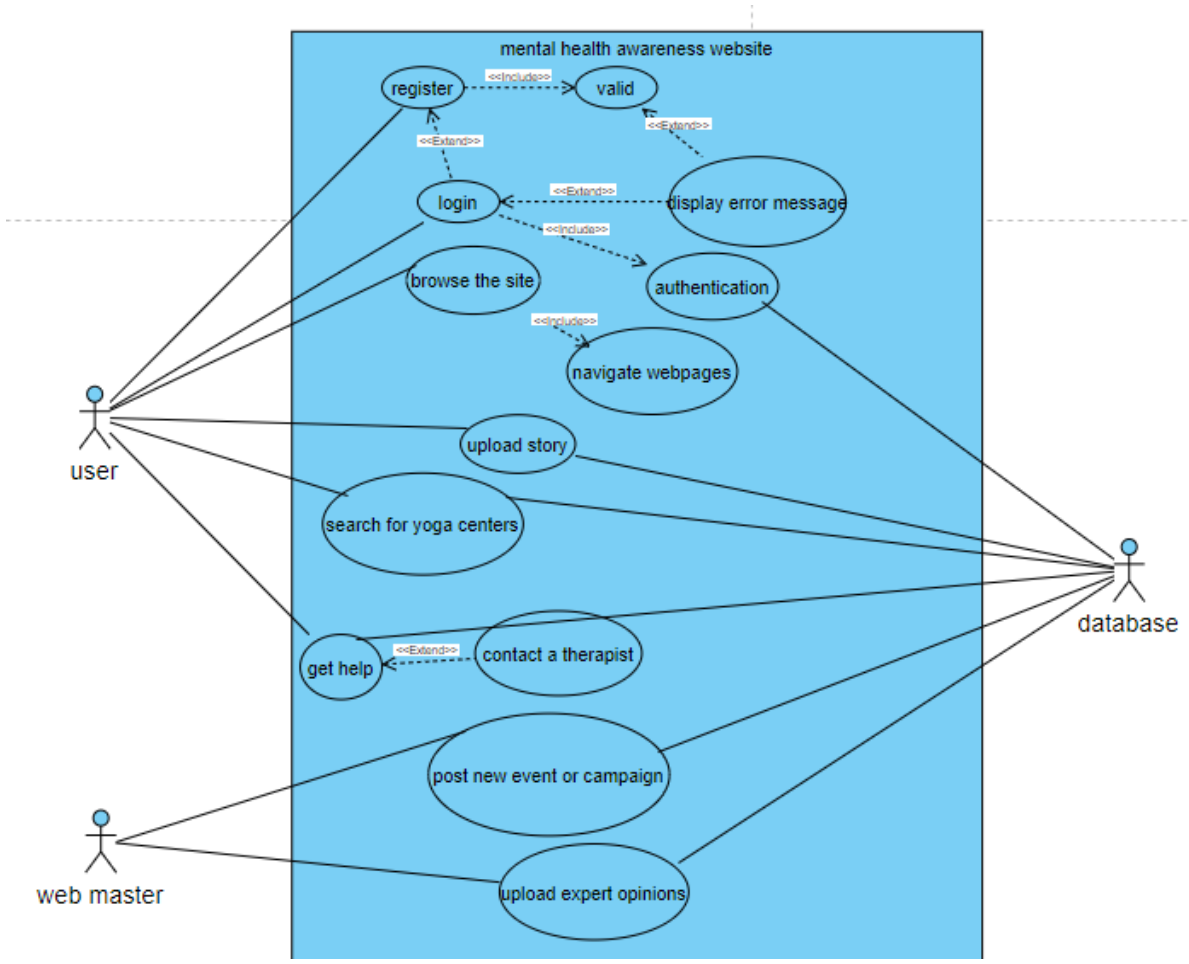


Fig-1: Use Case Diagram

4.1.2 CLASS DIAGRAM:

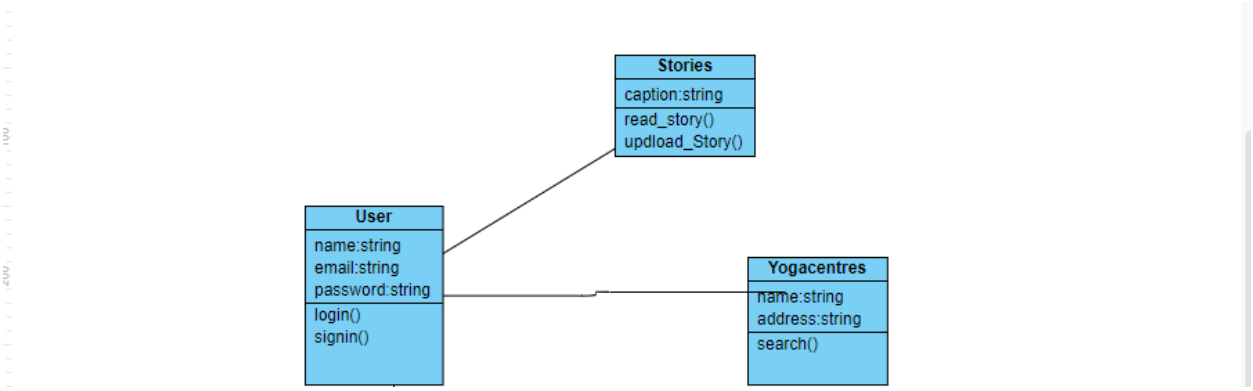


Fig-2 : Class Diagram

4.1.3 ACTIVITY DIAGRAM:

Activity diagrams represent workflows in a graphical way. They can be used to describe the business workflow or the operational workflow of any component in a system.

Sometimes activity diagrams are used as an alternative to State machine diagrams

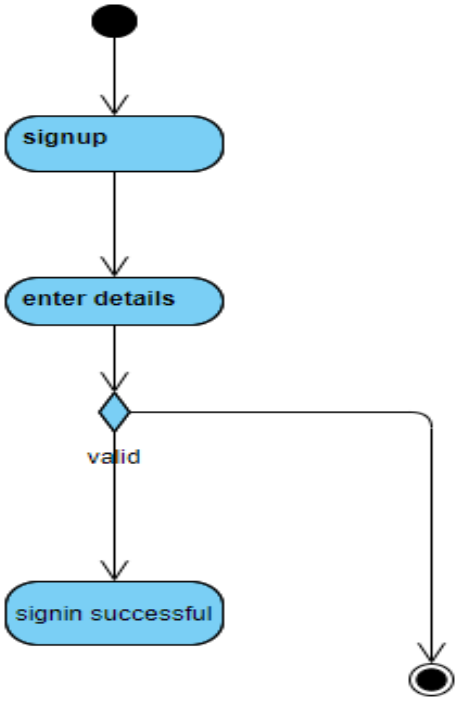


Fig-3: Activity Diagram for Signup

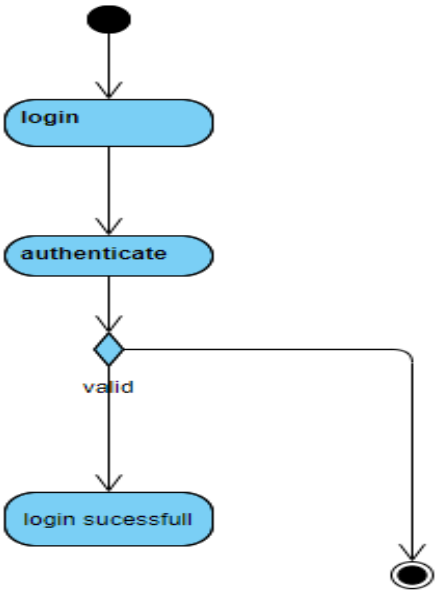


Fig-4 : Activity Diagram for LOGIN

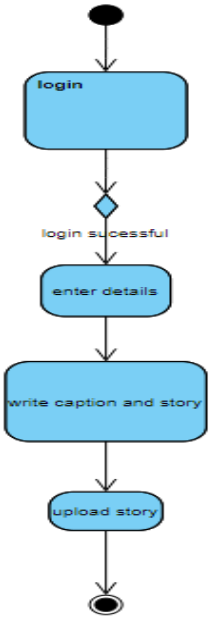


Fig-5 : Activity Diagram for Post Story

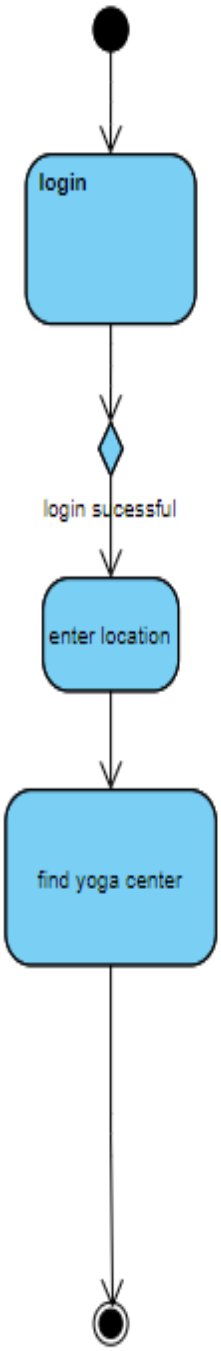


Fig-6 : Activity Diagram for Get Help

4.1.4 SEQUENCE DIAGRAM:

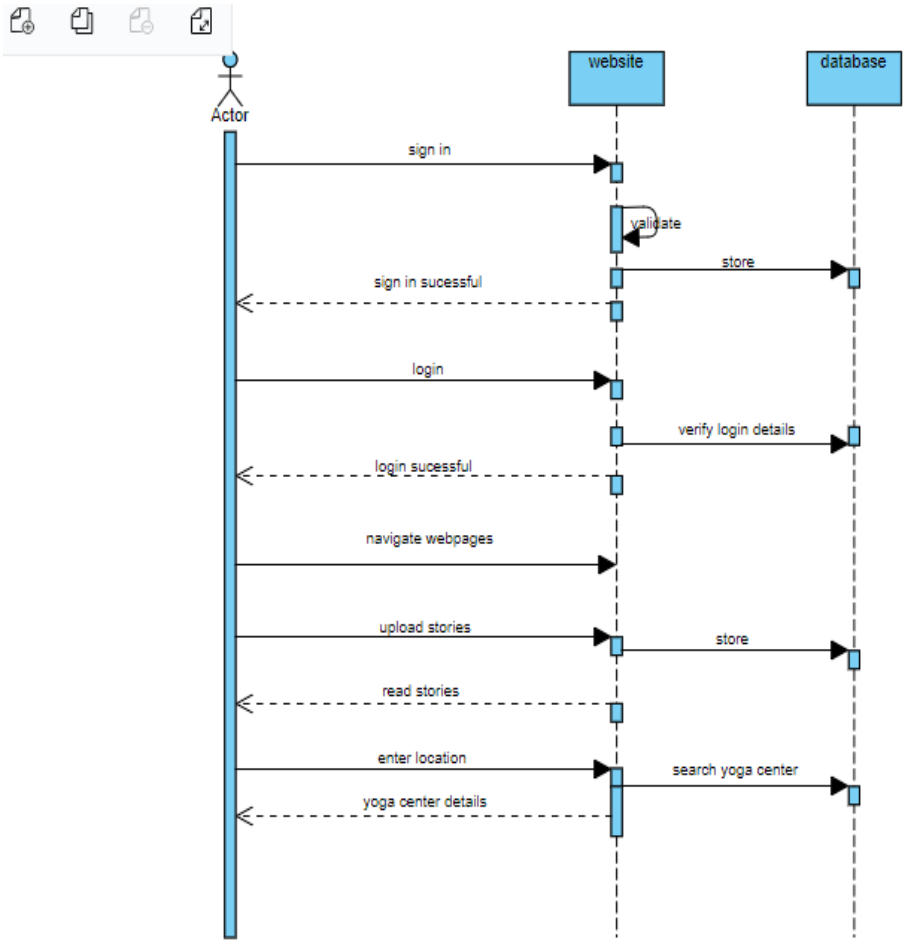


Fig-6 : Sequence Diagram

CHAPTER 5

IMPLEMENTATION

4 SAMPLE CODE

DJANGO IMPLEMETATION

```
from django.contrib import admin

from django.contrib.auth import views as auth_views

from django.urls import path,include

from register import views as user_views

urlpatterns = [

    path('stories/', include('stories.urls')),

    path('register/',user_views.registerhome,name = 'registerhome'),

    path('login/',auth_views.LoginView.as_view(template_name = 'register/loginform.html'),name
= 'login'),

    path('logout/',auth_views.LogoutView.as_view(template_name = 'register/logout.html'),name
= 'logout'),

    path('search_centres/', include('search_centres.urls')),

    path('',include('mywebsite.urls')),

    path('admin/', admin.site.urls),

]

from django.shortcuts import render
```

```
print("hi")
# Create your views here.
def index(request):
    return render(request,'mywebsite/index.html')
urlpatterns = [
    path('',views.index,name='index'),]
import csv
import pandas as pd
from bs4 import BeautifulSoup
from django.shortcuts import render
from selenium import webdriver
from selenium.webdriver.chrome.options import Options
from django.contrib.auth.decorators import login_required
# Create your views here.
@login_required
def home(request):
    var = 0
    if(request.method == 'GET'):
        loc = request.GET.get('location')
        stype = request.GET.get('searchtype')
        l= loc
        print(stype)
        #options = Options()
```

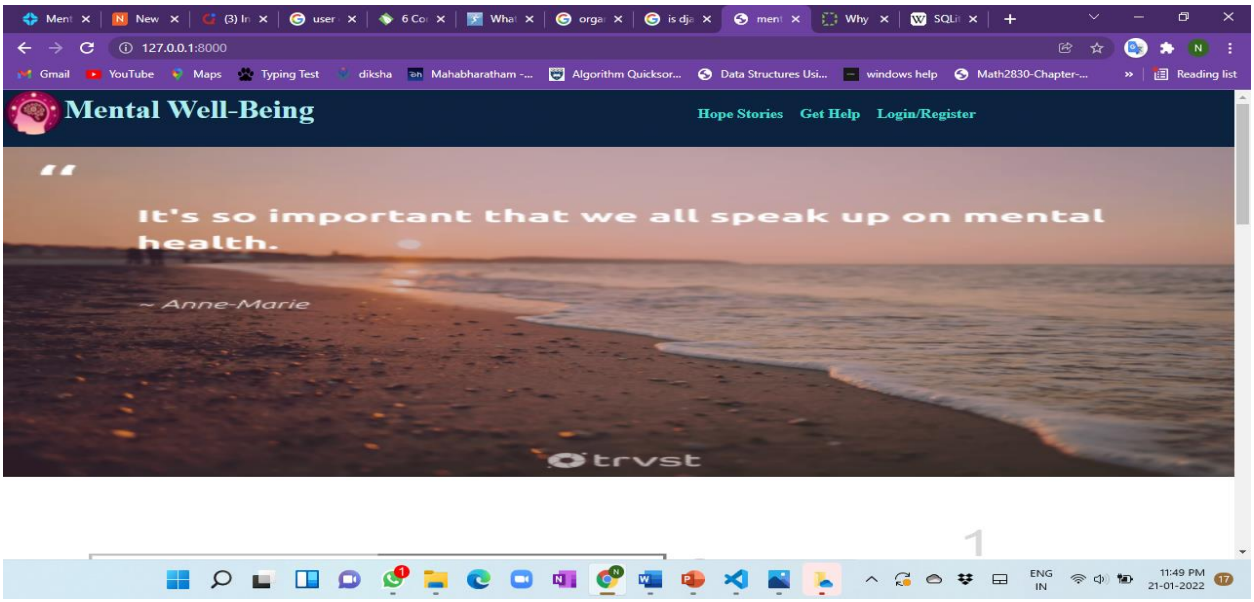
```
        #options.add_argument("--headless")
       browser =
webdriver.Chrome(executable_path='C:\\Users\\nalib\\Downloads\\chromedriver_win32\\chrom
edriver.exe',)#options = options)
        url = "https://www.justdial.com/{}/{}/"
        u = url.format(loc, stype)
        fields = ['name', 'rating', 'address', 'links']
        print("hi")
        browser.minimize_window()
        browser.get(u)
        browser.implicitly_wait(10)
         page = browser.page_source
        soup = BeautifulSoup(page, 'html.parser')
        # print(soup)
        li = soup.find_all('li', class_="cntanr")
        with open("C:\\Users\\nalib\\projects\\project1\\search_centres\\database\\yogacentres.csv",
'w', newline="",
           encoding="utf-8") as output:
            writer = csv.writer(output)
            writer.writerow(fields)
        names = []
        links = []
        ratings = []
```

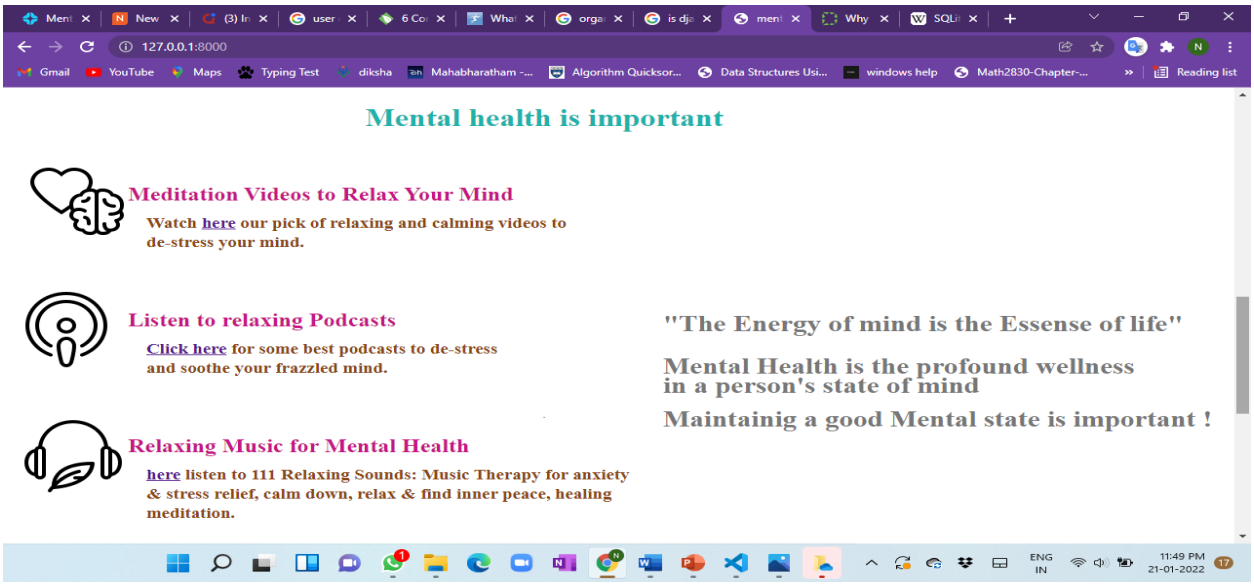
```
        add = []
        for each in li:
            names.append(each.find('span', class_='lng_cont_name').text)
            link = each.find('a')
            links.append(link['href'])
            ratings.append(each.find('p', class_='newrtings').find('span').text)
            a = each.find('p', class_='address-info tme_adrssec')
            add.append(a.find('span', class_="cont_fl_addr").text)
        """print(names)
        print(links)
        print(ratings)
        print(add)"""
        rows = []
        for i in range(len(names)):
            row = [names[i], ratings[i], add[i], links[i]]
            rows.append(row)
        with open("C:\\Users\\nalib\\projects\\project1\\search_centres\\database\\yogacentres.csv",
'a', newline="",
            encoding="utf-8") as output:
            writer = csv.writer(output)
            writer.writerows(rows)
        # print(rows)
        browser.close()
```

```
        var = 1
        #loc = "Nellore"
        details = {'loc':loc,'searchtype':stype,'var':var}
        return render(request, 'search_centres/home.html',details)
def yoga_centres(request):
    df=pd.read_csv("C:\\Users\\nalib\\projects\\project1\\search_centres\\database\\yogacentres.csv",encoding = "cp1252")
    clList=[pp for pp in df.keys()]
    allData=[]
    for i in range(df.shape[0]):
        temp=df.loc[i]
        allData.append(dict(temp))
        context= {'data':allData,'cl':clList}
    return render(request,'search_centres/centres.html',context)
```

CHAPTER 6

RESULT AND DISCUSSION





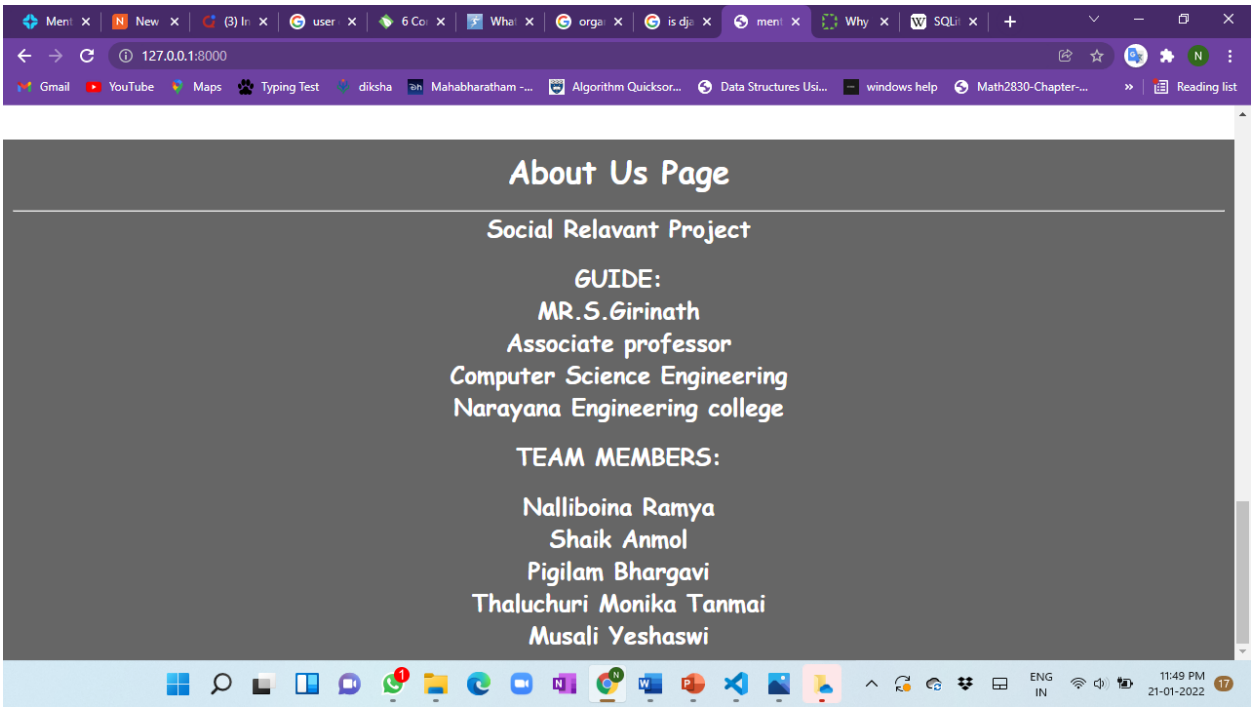


Fig-8: HOME PAGE

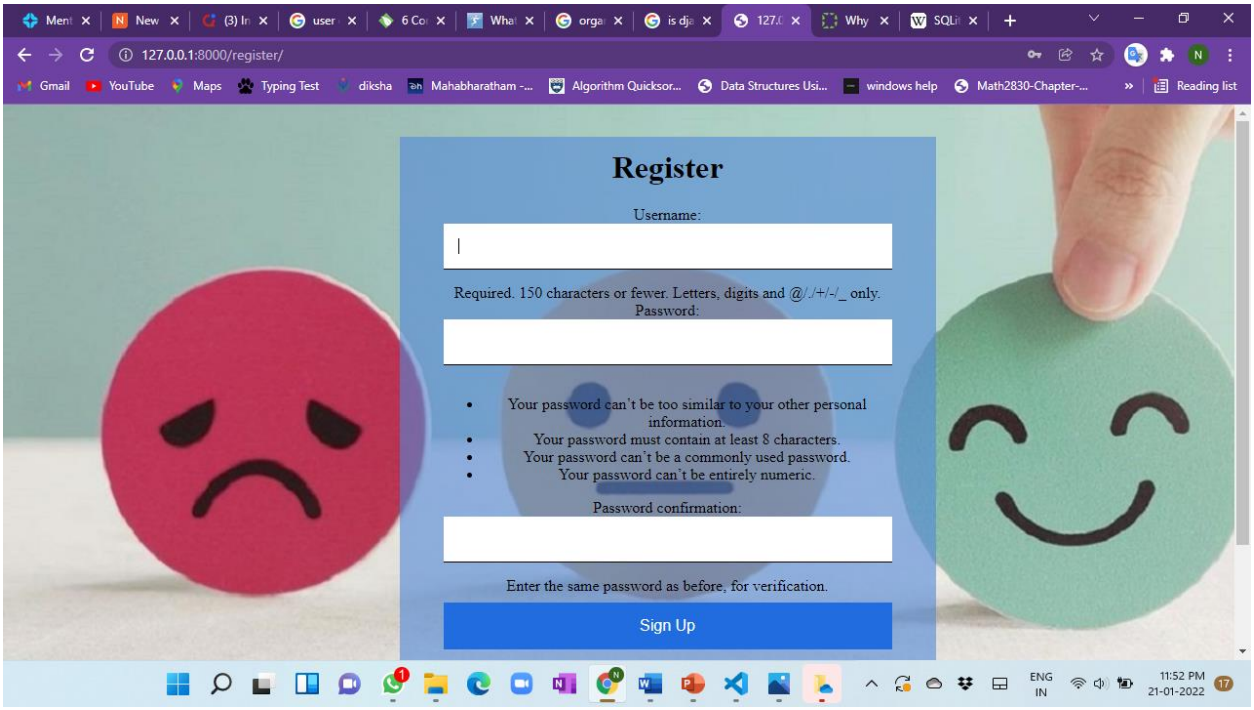


Fig-9: REGISTRATION PAGE

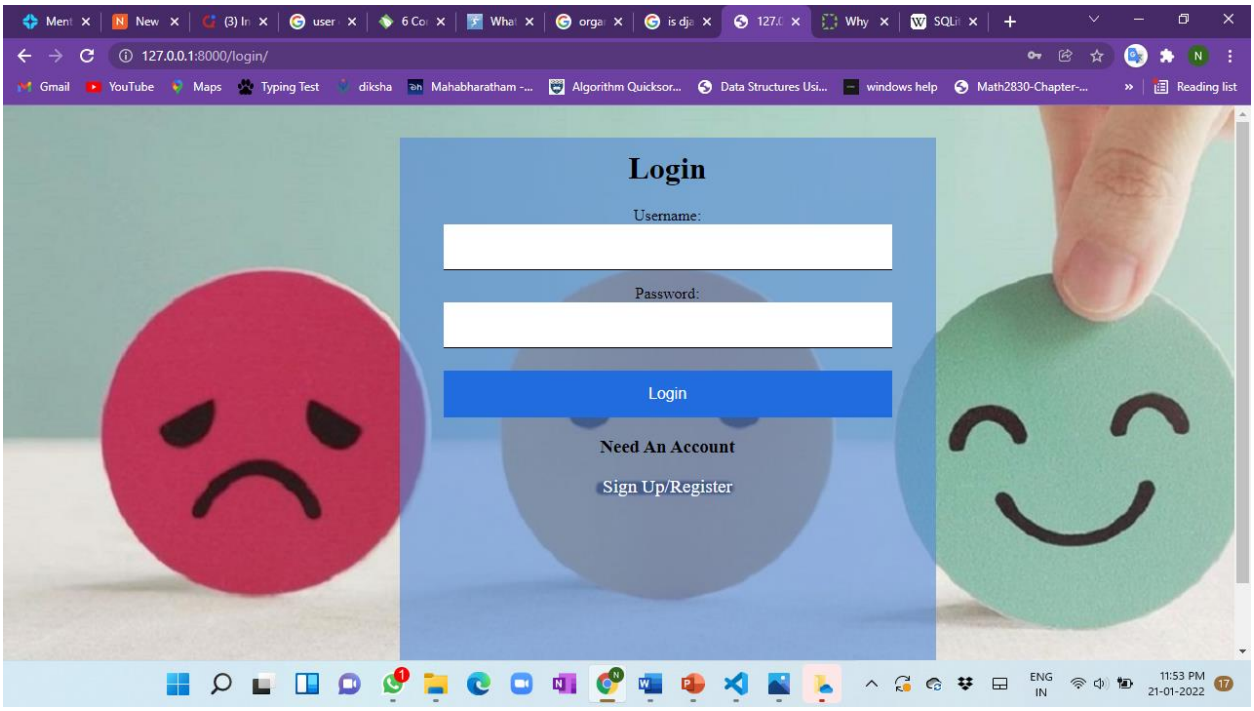


Fig-10: LOGIN PAGE

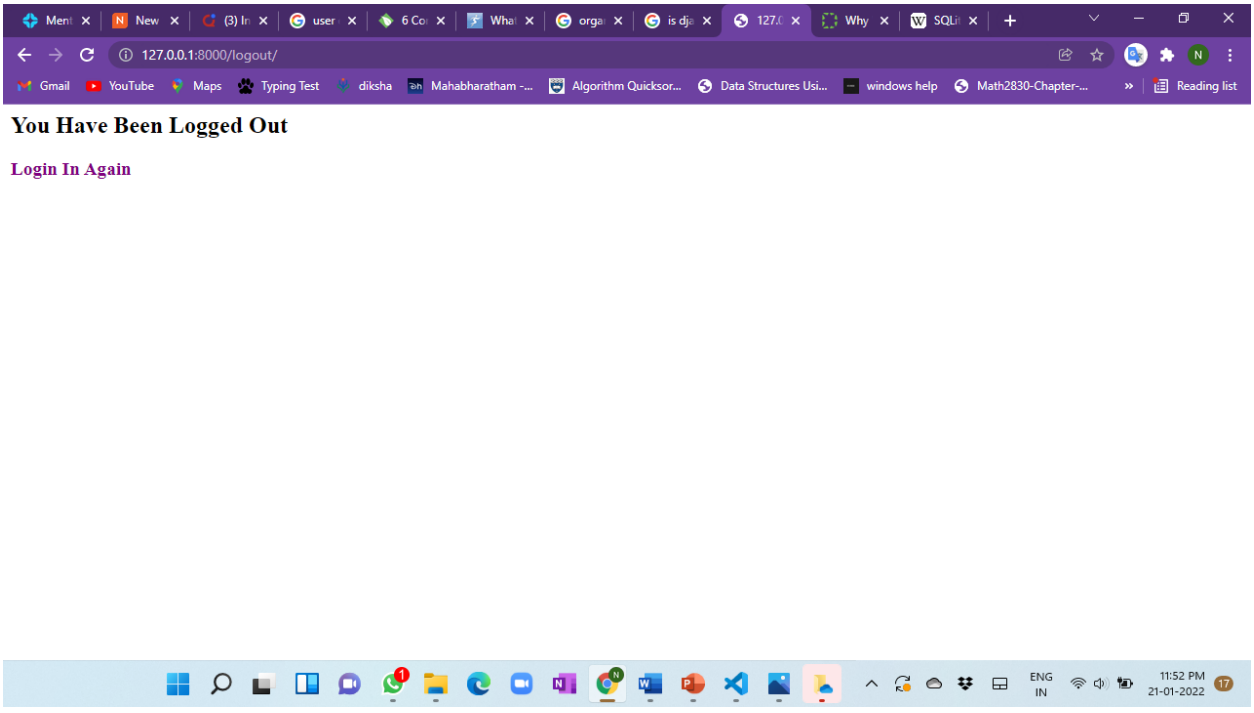


Fig-11: LOGOUT PAGE

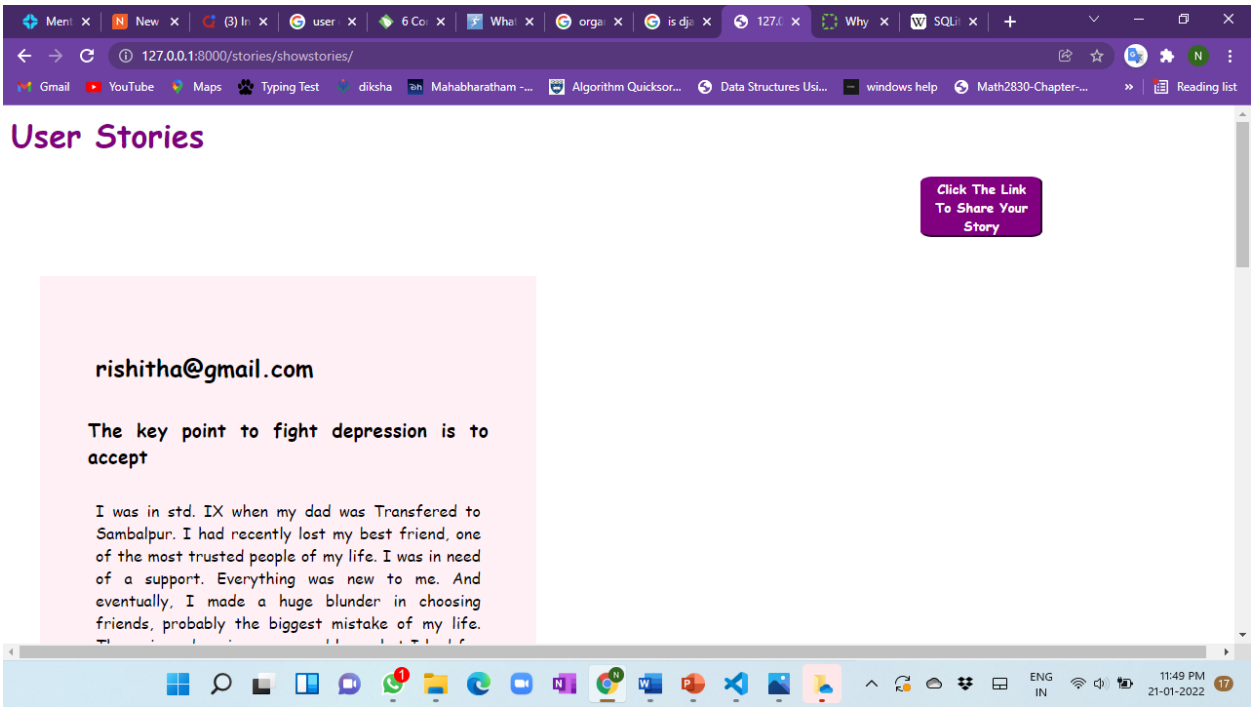


Fig-12: HOPE STORIES PAGE

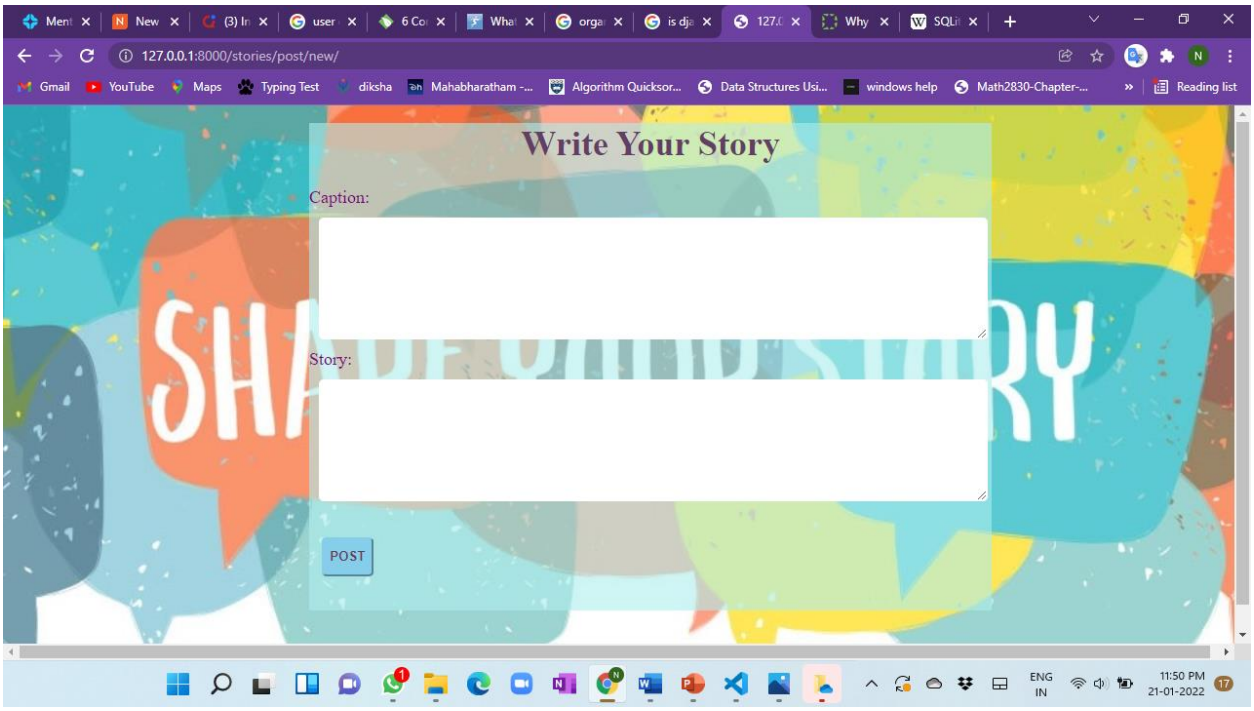


Fig-13: POST STORY PAGE

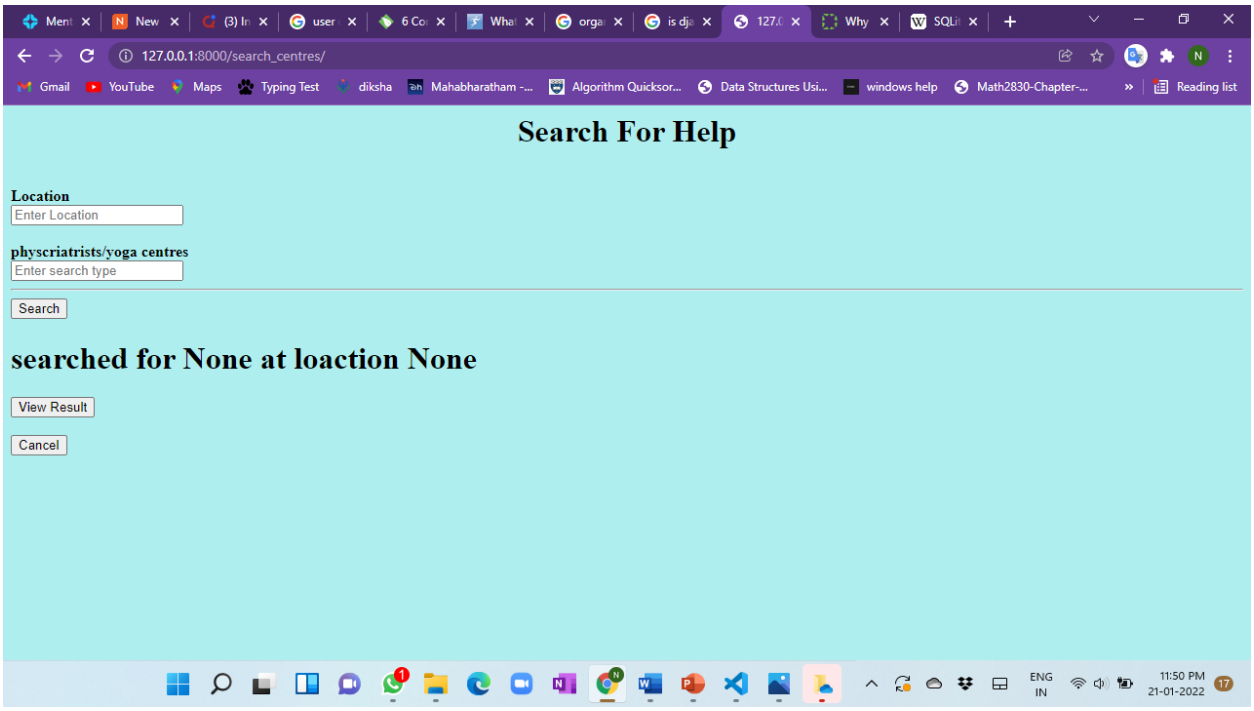
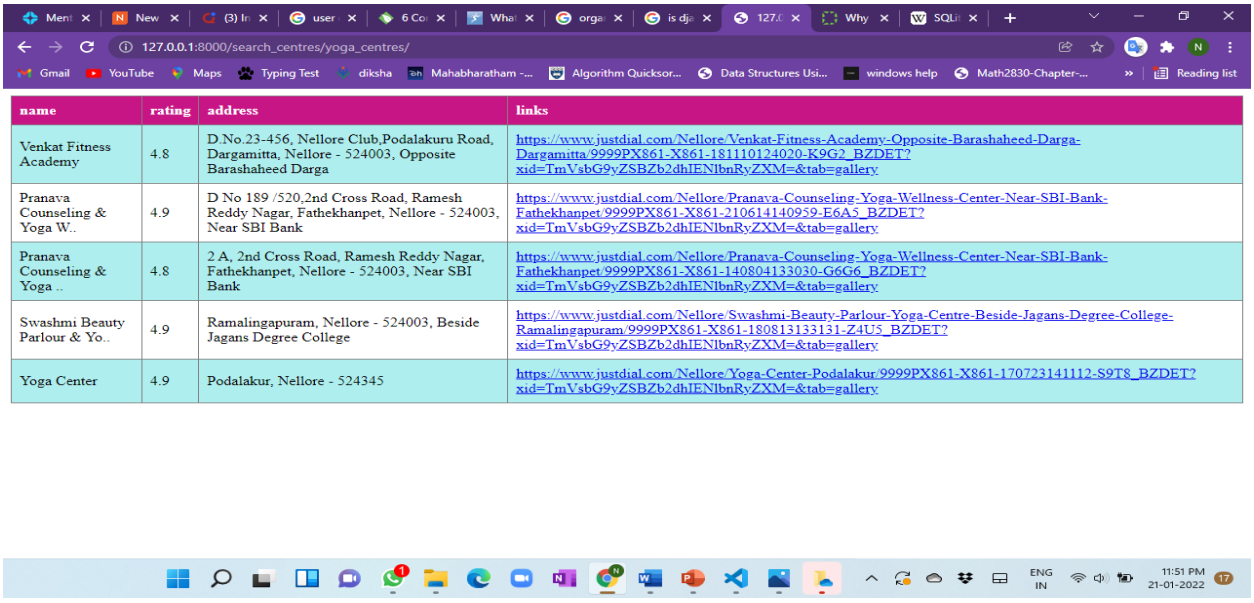


Fig-14: GET HELP PAGE



name	rating	address	links
Venkat Fitness Academy	4.8	D.No.23-456, Nellore Club,Podalakuru Road, Dargamitta, Nellore - 524003, Opposite Barashaheed Darga	https://www.justdial.com/Nellore/Venkat-Fitness-Academy-Opposite-Barashaheed-Darga-Dargamitta/9999PX861-X861-181110124020-K9G2_BZDET?xid=TmVsbG9yZSBZb2dhIENlbnRyZXM=&tab=gallery
Pranava Counseling & Yoga W..	4.9	D No 189 /520,2nd Cross Road, Ramesh Reddy Nagar, Fathekhanpet, Nellore - 524003, Near SBI Bank	https://www.justdial.com/Nellore/Pranava-Counseling-Yoga-Wellness-Center-Near-SBI-Bank-Fathekhanpet/9999PX861-X861-210614140959-E6A5_BZDET?xid=TmVsbG9yZSBZb2dhIENlbnRyZXM=&tab=gallery
Pranava Counseling & Yoga ..	4.8	2 A, 2nd Cross Road, Ramesh Reddy Nagar, Fathekhanpet, Nellore - 524003, Near SBI Bank	https://www.justdial.com/Nellore/Pranava-Counseling-Yoga-Wellness-Center-Near-SBI-Bank-Fathekhanpet/9999PX861-X861-140804133030-G6G6_BZDET?xid=TmVsbG9yZSBZb2dhIENlbnRyZXM=&tab=gallery
Swashmi Beauty Parlour & Yo..	4.9	Ramalingapuram, Nellore - 524003, Beside Jagans Degree College	https://www.justdial.com/Nellore/Swashmi-Beauty-Parlour-Yoga-Centre-Beside-Jagans-Degree-College-Ramalingapuram/9999PX861-X861-180813133131-Z4U5_BZDET?xid=TmVsbG9yZSBZb2dhIENlbnRyZXM=&tab=gallery
Yoga Center	4.9	Podalakur, Nellore - 524345	https://www.justdial.com/Nellore/Yoga-Center-Podalakur/9999PX861-X861-170723141112-S9T8_BZDET?xid=TmVsbG9yZSBZb2dhIENlbnRyZXM=&tab=gallery

Fig-15: SEARCH RESULTS PAGE

CHAPTER 7

CONCLUSION & REFERENCES

Conclusion:

This website can be launched on cloud platforms like AWS. We can also add other functionalities like sentimental analysis of the user who is suffering with mental health issues using machine learning models and embed into our website .

The websites with bad user experience and user interface. The current website has a good user experience and good user interface

The user finds difficulty in interacting with the existing websites. The proposed Website is easy to interact.

Existing websites will make users to fill out long complicated form that calls for personal information can turn some people off. Proposed website has less complicated forms to fill.

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