

Fr. Conceicao Rodrigues College Of Engineering

**Department of Computer Engineering,
SEM-III Class A**

OOPM (JAVA) Project

PROJECT TOPIC:

Preliminary Depression Detection Test Web Application using SpringBoot & React

PROBLEM STATEMENT:

To design a web application that lets user take a preliminary test to detect depression and help user get the required help according to their test scores.

GROUP MEMBERS:

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INTRODUCTION:

We're living in an era where social status, mental health, academics, etc. play an important role in our lives. Especially the past few months have been difficult times for all of us because of COVID-19 pandemic all over the world. The most common issue faced by quite a few students of late, is depression, considering the lack of awareness about mental health. The development of social networks has been a great point for its users to communicate and share their opinions, thoughts, photos, etc. reflecting their moods, feelings and life, in general. Thus, creating an opportunity to analyse the user's feelings and sentiments to investigate their mood when they are communicating via these online tools. However, although the diagnosis of depression using social networks data has picked an established position globally, there are several dimensions (emotionally, mentally) that are yet to be detected.

PURPOSE:

According to World Health Organisation(WHO) In India, the National Mental Health Survey 2015-16 reveals that nearly 15% Indian adults need active intervention for one or more mental health issues and one in 20 Indians suffers from depression.

NOVELTY:

In this project, we have developed an application that screens the young generation regarding any symptoms that might indicate depression. Our web application will be designed in a user-friendly way (i.e. a simple screening process) so as to decrease the taboo associated with mental health issues. Based on the results of the user's screening, we would be providing a few links and resources directing them towards how they could deal with it.

EXISTING SYSTEMS/SIMILAR SYSTEMS:

Sr No	URL
1	https://patient.info/doctor/patient-health-questionnaire-phq-9
2	https://ieeexplore.ieee.org/abstract/document/7041742

ACTOR-WISE FUNCTIONALITIES:

- **USER:**
 - The user registers by filling in the data on the sign-up page
 - Once the user has registered, his/her information is stored in the database; they only need to enter their email-id and password while logging in henceforth
 - The user is then provided with a set of questions they have to answer ○ Based on the answers selected, their result is declared and they are provided with the appropriate free resources accordingly.
- **REGISTERED USER:**
 - The registered user only needs to login in using the emailid and password provided during registration.
 - The user is then provided with a set of questions they have to answer ○ Based on the answers selected, their result is declared and they are provided with the appropriate free resources accordingly.

FUNCTIONAL REQUIREMENTS:

- **HARDWARE REQUIRED:**
 - **MEMORY:**
 - Estimated memory required is around 2GB
 - **REGISTRATION:**
 - The system allows the user to sign up with their name,email id and set a password
 - Once registered, the user can login at any time using their email id and password
 - The system checks that the password entered is unique to each user
- **SOFTWARES AND DATABASE REQUIRED:**
 - **SOFTWARE:**
 - Softwares required on the server include Google Chrome and SQL server
 - The system allows multiple users to login simultaneously, irrespective if the user leaves his/her system unattended or leave the page, the integrity of the system is protected
 - **DATABASE:**
 - Each user will have the following mandatory information: First name, Last name, email-id, password, etc.
 - The system will allow the Admin to update any of the user's information

REFERENCES:

- https://en.wikipedia.org/wiki/Mental_health
- Snyder, C. R; Lopez, Shane J; Pedrotti, Jennifer Teramoto (2011). *Positive psychology: the scientific and practical explorations of human strengths*. SAGE. ISBN 978-1-4129-8195-8. OCLC 639574840
- "The world health report 2001 – Mental Health: New Understanding, New Hope" (PDF). WHO. Retrieved 4 May 2014

Remarks and Suggestions: <to be filled by evaluators>

Sr.No	Suggestion/Modification	Mandatory/ Optional
