KLE Society's
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Bachelor of Computer Applications

PROJECT REVIEW - 01

on

"Mental Well being Web Application for Students"

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Mental Well-being Web Application for Students

ABSTRACT

Emotional State Detection

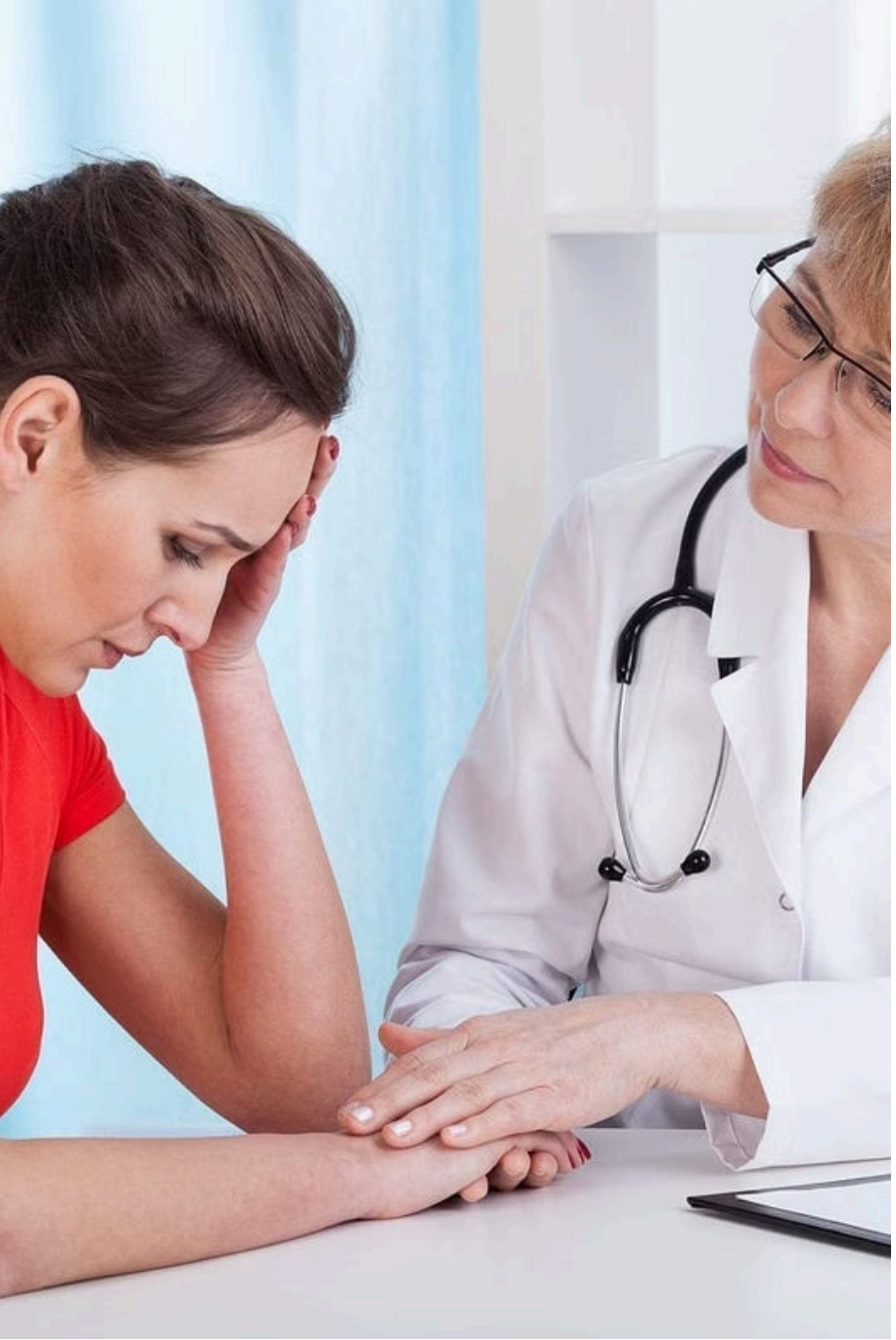
Our project focuses on developing a web application dedicated to promoting the mental well-being of students. The application aims to detect students' emotional states, including stress, depression, anxiety, and normalcy, and notify their parents accordingly.

Comprehensive Features

Through a combination of features such as a chat bot, mind-relieving music, parental notifications, educational resources, community support, and progress tracking, the application provides a comprehensive solution for addressing students' mental health needs.

Leveraging Technology

By leveraging technology, the project aims to raise awareness about mental health issues, facilitate early detection of emotional distress, and encourage proactive measures for maintaining good mental health.



INTRODUCTION

- In recent years, people are paying more attention to how students feel inside.
- Student life can be tough, with lots of work, social stuff, and personal things to handle.
- It's no surprise that many students feel stressed, worried, or sad. Research even shows that nearly half of college students feel really stressed out.
- But here's where we come in : a web app just for students' mental health.
- Our goal? To build a safe online space where students can feel better, get help if they need it, and find support from others.

EXISTING AND PROPOSED SYSTEM

Existing system

- In the existing system, there are several web applications available that cater to specific aspects of mental health support.
- For example, there are platforms focused solely on doctor consultation, where individuals can seek professional advice and receive suggestions regarding their mental health concerns.
- These platforms typically offer limited functionalities beyond consultation, often lacking features for comprehensive stress assessment, parental involvement, or educational resources.
- While they serve a crucial purpose in providing access to professional support, they may not offer a holistic approach to addressing the diverse needs of individuals dealing with mental health issues.

Proposed system

- Our proposed system aims to revolutionize the landscape of mental health support by integrating a wide array of features into a single, cohesive web application.
- Unlike existing platforms that focus primarily on doctor consultation, our web app offers a comprehensive solution that encompasses various aspects of mental well-being.
- It includes a chat bot feature for engaging conversations and stress or depression detection tests, with results promptly notified to parents for proactive intervention.
- Additionally,the platform provides mind-calming music, access to doctor consultation services, educational resources, and more, all accessible from one centralized platform.

HARDWARE AND SOFTWARE SPECIFICATIONS

Hardware Requirements

Processor - Intel Core i3 and above (recommended)
Ram - 4GB (minimum) 8GB (recommended)
Disk Space - 90GB (minimum) 180GB (recommended)

Software Requirements

Operating System - 64-bit operating system, x64-based processor
Front End - HTML, CSS, JavaScript, React
Back End - MySQL, Node.js, SendGrid and APIs

TOOLS & TECHNOLOGY

Tools

1. Visual Studio Code
2. Figma
3. Git
4. GitHub

Technologies

Front End:

HTML (Hypertext Markup Language), CSS (Cascading Style Sheets), JavaScript ,React.js

Back End:

Node.js ,MySQL

Additional:

SendGrid

APIs (Application Programming Interfaces)

SYSTEM ARCHITECTURE

1

Client-side Interface

The client-side interface allows users to interact with the application.

2

Server-side Logic

The server-side application logic handles user requests and processes data.

3

Database Management

The database management system stores user data and progress tracking.

4

External APIs

External APIs integrate additional functionalities such as music streaming and parental notifications.

MODULES

Chat Bot

The chat bot assesses students' stress levels and engages in general conversation.

Music Streaming

The mind-relieving music streaming feature offers relaxation and stress relief.

Parental Notifications

The parental notification system informs parents about their child's mental state.

Educational Resources

The application provides educational resources, including podcasts and relieving videos.

Community Support

The community support platform allows students to connect with their peers and share experiences.

Progress Tracking

The progress tracking tools help students monitor and improve their mental well-being over time.

Future Enhancements and Conclusion

1 Machine Learning Integration

Integration of machine learning algorithms for more accurate assessment of students' emotional states.

2 Expanded Resources

Expansion of educational resources and community support features.

3 Personalized Support

Collaboration with mental health professionals for personalized support and intervention.

4 Real-time Monitoring

Integration of wearable devices or sensors for real-time monitoring of physiological indicators of stress and anxiety.

In conclusion, the Mental Well-being Web Application for Students aims to provide a valuable resource for students to prioritize and maintain their mental health effectively. Through innovative features and technologies, the application seeks to make a positive impact on students' well-being and contribute to a healthier campus community.

BIBLIOGRAPHY

1. World Health Organization. (2021). Mental health: Strengthening our response. Retrieved from https://www.who.int/news-room/fact-sheets/detail/mental-health-strengthening-our-response
2. National Institute of Mental Health. (2021). Mental Health Information. Retrieved from https://www.nimh.nih.gov/health/index.shtml
3. ChatGpt https://www.chatgpt.com

Thank You

We are grateful for the opportunity to present our innovative Mental Well-being Web Application for Students. This comprehensive solution aims to empower and support students in their journey towards better mental health and overall well-being.