

G H Raisoni College of Engineering & Management

An Empowered Autonomous Institute, Affiliated to Savitribai Phule Pune University Approved by AICTE, New Delhi and Recognized by Govt. of Maharashtra, NAAC Accredited "A+" Grade Navin Gat No.1200, Domkhel Road, Wagholi, Pune - 412 207 (India)

T: +91-9604787185/186 | E: ghrcem.pune@raisoni.net | W: www.ghrcemp.raisoni.net

EmoTrack - Strengthening Mental Health

<u>Guide:</u> Prof.Shubhangi Ingale

Name of Project Members

Ashwin Bahekar(BCOB75)
Rishikesh Durnale(BCOA55)

Santosh Vishwakarma(BCOB73) Swaraj Singh(BCOB102)



Contents

- Introduction
- Justifications for Selecting the Title
- Problem Statement
- Benefits to the surrounding/society:
- Disadvantages
- Challenges
- Literature Survey
- Block Diagram
- Output
- Work plan
- References



Introduction

- Mental health challenges are rising among children, but identification and intervention can be difficult.
- Develop a system to track and assess children's mental well-being.
- Benefits:
 - 1. Early identification of potential issues
 - 11. Improved access to appropriate support
 - Ill. Better tracking of treatment progress.



Justification For Selecting The Title

- EmoTrack is a student assessment program that uses multiple methods to measure student health.
- It raises awareness about mental well-being by encouraging users to actively monitor their emotions, moods, and behaviors.
- By regularly tracking their mental health, users can detect early signs of distress or decline.
- EmoTrack offer a convenient and accessible platform for monitoring mental well-being anytime, anywhere.



Problem Statement

• **EmoTrack:** Developing a comprehensive and effective mental health and well-being surveillance, assessment, and tracking solution among children to address the growing concern of mental health issues in this demographic.



Benefits to the surrounding/society:

- **Reduced Healthcare Burden**: By promoting proactive mental health management and early intervention, EmoTrack helps alleviate the burden on healthcare systems.
- Enhanced Productivity and Well-being in the Workplace: A mentally healthy workforce is more productive, engaged, and resilient.
- Educational institutions: Emotrack can help educational institutions to Better understand the mental health needs of their students. Develop more effective student support programs and policies.



Disadvantages

- Over-reliance on technology: Users may depend too much on the app, potentially neglecting other important aspects of mental health management.
- **Privacy concerns**: There's worry about sensitive data being compromised or misused, leading to hesitancy in using these apps.
- Lack of human interaction: These apps may lack the empathy and connection provided by traditional therapy or support groups, leaving users feeling isolated during times of distress.



Literature Survey

Year

2019

Findings

mental health monitoring, showcasing the

diverse applications and challenges in this emerging field.

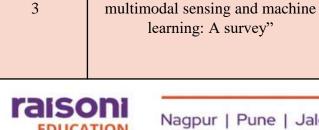
Author

1	"Mental health monitoring apps for depression and anxiety in children and young people: A scoping review and critical ecological analysis"	Jessy E. Williams , Jessica Pykett	2022	These findings underscore the necessity for further research and diverse perspectives in developing mental health apps for children and young people.
2	"The role of technology in mental healthcare"	Dr Becky Inkster, Dr Christopher Burr	2022	Benefits and challenges associated with integrating technology into mental healthcare, emphasizing the importance of evidence-based practices and ethical considerations in this rapidly evolving field.
	"Mental health monitoring with	Michael Piegler Tine		The potential of leveraging sensor data and machine learning techniques for automatic

Michael Riegler, Tine

Nordgreen

Nagpur | Pune | Jalgaon | Amravati | Pandhurna | Bhandara

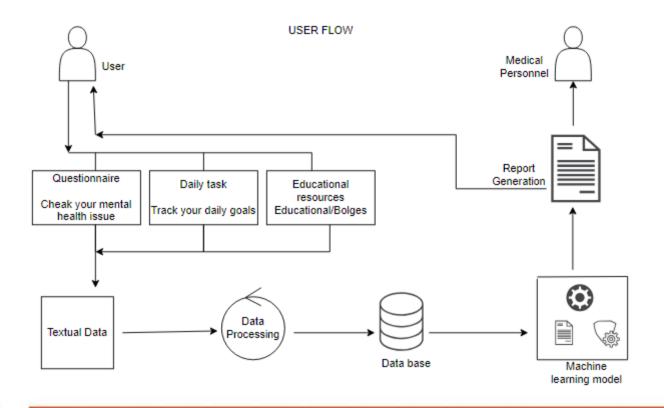


Sr. No.

Title

learning: A survey"

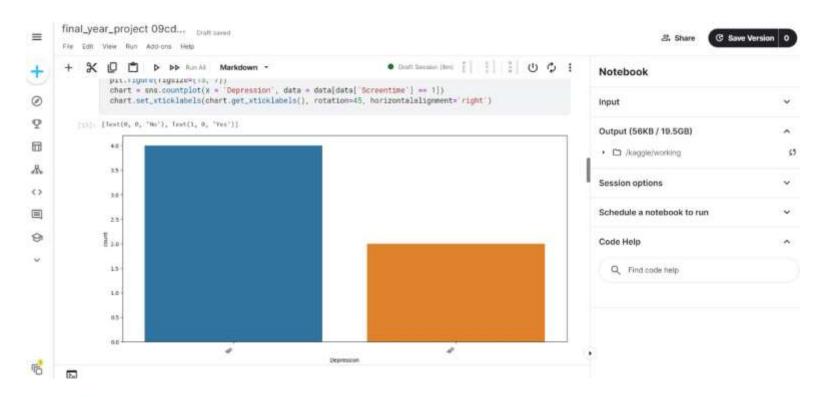
Block Diagram



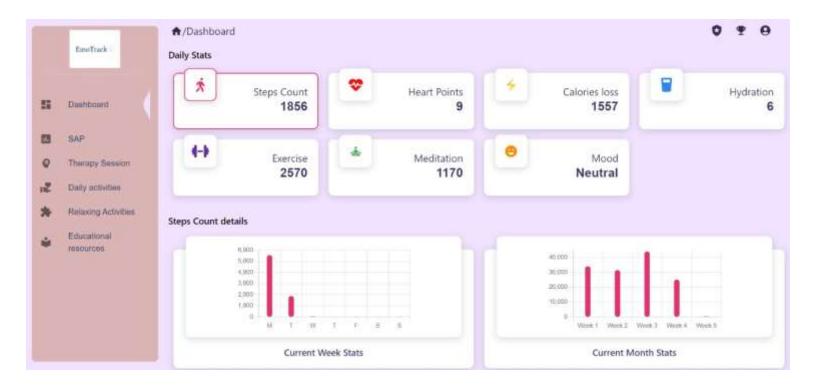


- **Insightful Reports:** The ML-powered reports provide valuable insights into the mental health status of children. These reports highlight areas of concern, identify triggers for stress, and suggest potential interventions.
- **Data-informed decisions**: Users make more informed decisions regarding their mental health, leveraging insights from tracked data to optimize their self-care routines and treatment plans.
- Link For Datasets: /kaggle/input/mental-health-data/mental health dummy data.csv

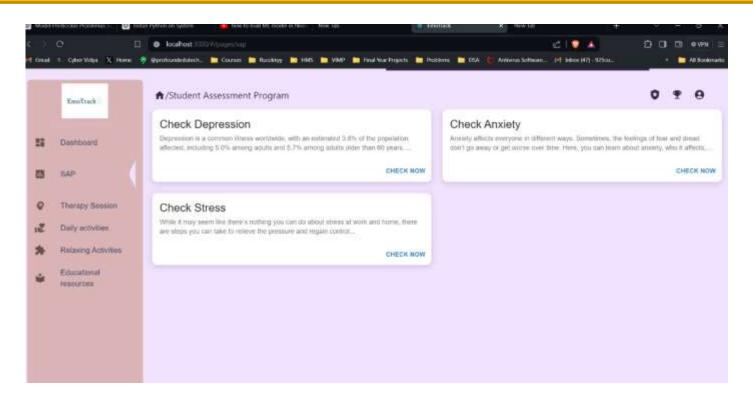




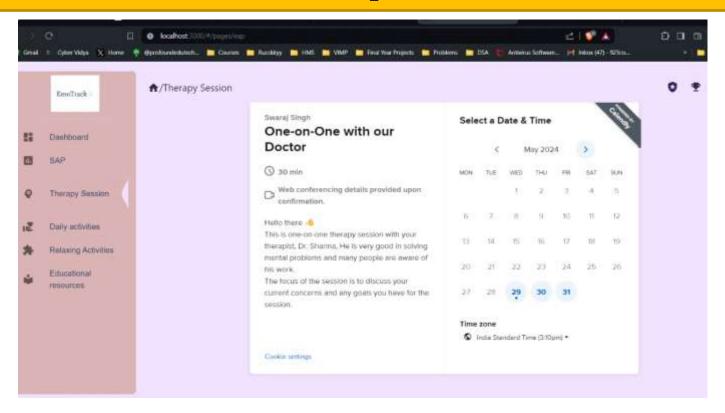




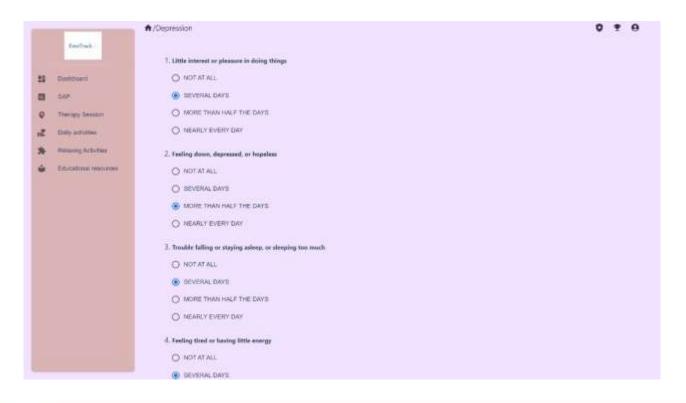




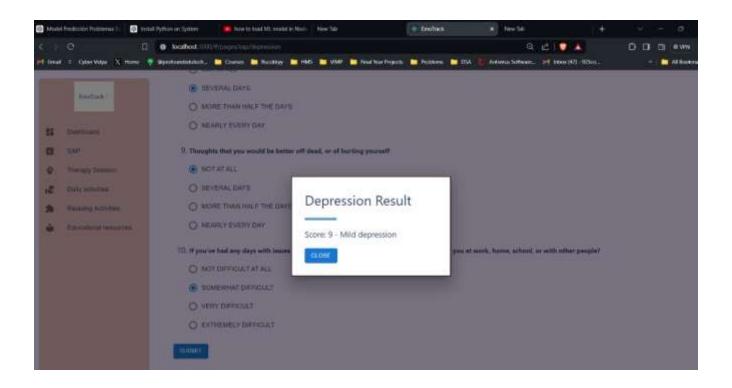




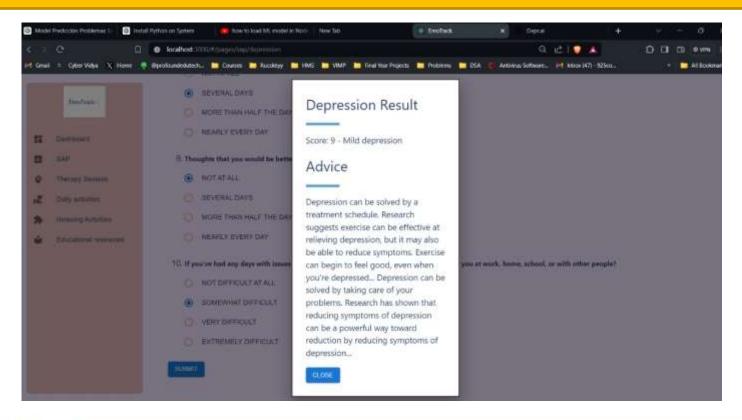














Work - Plan

Mar'24

Nagpur | Pune | Jalgaon | Amravati | Pandhurna | Bhandara

Literature Reviews	$\sqrt{}$	\checkmark	$\sqrt{}$	$\sqrt{}$	\checkmark	
Component Identification & Selection		$\sqrt{}$	$\sqrt{}$	\checkmark	\checkmark	
Designing			1	$\sqrt{}$	√	

April'24

May'24

June'24

July'24



raisoni

EDUCATION

Experimental

Analysis

Months Activities

Jan'24

Feb'24

References

- https://www.aimprosoft.com/blog/how-to-make-a-mental-health-app/
- https://www.hindawi.com/journals/acisc/2022/9970363/
- https://mental.jmir.org/2020/10/e17453/
- https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8787665/
- /kaggle/input/mental-health-data/mental health dummy data.csv



Thank you!

