



MoodGenie – AI-Powered Mental Health Support for the Tech Community

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1. Introduction

- ❖ **MoodGenie – AI-Powered Mental Health Support for the Tech Community**
- ❖ MoodGenie is a cross-platform mobile application designed to address **stress, burnout, and anxiety** among **software developers, research scholars, and students**. It merges **AI-driven self-care, secure therapist sessions, and mood analytics** in one platform.
- ❖ MoodGenie offers an **empathetic AI chatbot, licensed therapist access, and weekly mood reports**, helping users better manage their emotional well-being.
- ❖ Built with **Flutter, Node.js, Firebase, and OpenAI**, it ensures a **privacy-first, affordable, and tech-community-focused** solution.



2. Problem Statement

The tech community faces high levels of stress, anxiety, and burnout, driven by long working hours, deadlines, and cognitive overload. Despite awareness, traditional mental health support remains inaccessible due to cost, stigma, or lack of personalization. Existing apps like Wysa, Woebot, and Youper provide partial help—either AI-only or therapist-only—leaving a gap for an integrated, affordable, and private solution.

Target Users

Software developers, research students, and scholars.

Market Potential

Over 27 million developers globally, with growing demand for digital mental health tools.

3. Related Work

App	Key Features	Limitations
Wysa	AI chatbot + paid human coach	Limited free version; costly support
Woebot	AI cognitive therapy chatbot	No therapist integration
Youper	AI journaling & assessments	Lacks real therapy sessions
Earkick	AI mood & anxiety tracking	Limited to iOS; no therapist access

MoodGenie fills the gap by integrating AI self-help, therapist sessions, and mood analytics into one hybrid, privacy-first platform tailored for the tech community.

4. Project Scope

Goal:

Develop a hybrid mental wellness app combining AI emotional support, professional therapy, and mood tracking.



Core Features

1

Empathetic AI chatbot for mood check-ins.

2

Secure therapist video/text sessions.

3

Mood tracking with weekly/monthly analytics.

4

Data privacy controls and encryption.





Tools & Technologies

Flutter (Frontend)

Node.js + Express (Backend)

Firebase (Database)

OpenAI/Hugging Face (AI)

WebRTC (Video Sessions)

Value Proposition

Affordable, privacy-focused, and specifically designed for developers and research students.





5. Sustainable Development Goals

MoodGenie aligns with the United Nations SDGs:

Goal 3

Good Health & Well-Being – Promotes accessible mental wellness support through digital innovation.

Goal 8

Decent Work & Economic Growth – Encourages better mental health in the workforce, reducing burnout and improving productivity.

6. Methodology

Approach

Agile methodology with iterative development.



Phases

Requirement gathering & design (Figma, Figma, Visual Paradigm)

Core AI & mood tracking development

Therapist booking integration (WebRTC)

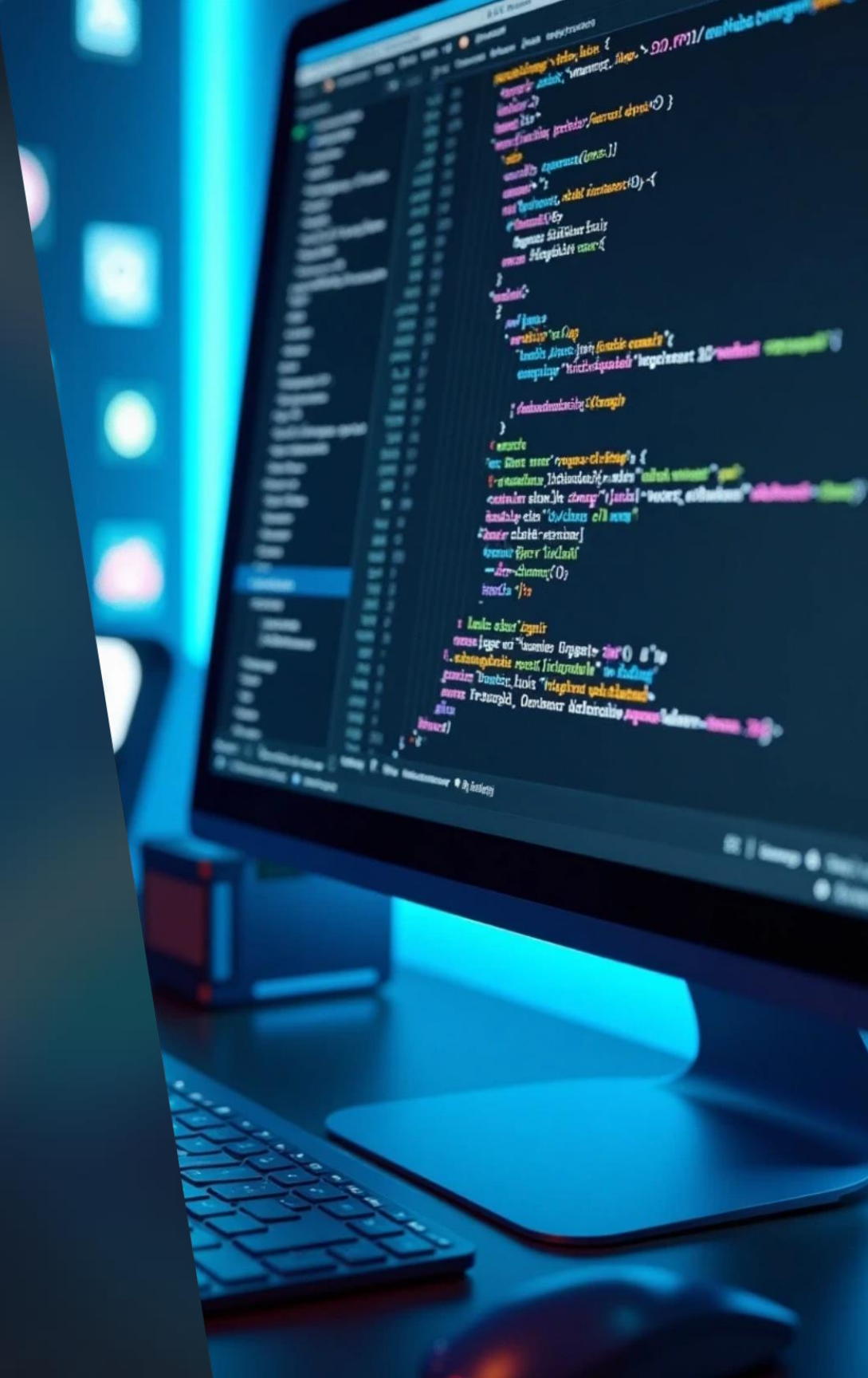
Testing, privacy validation, and deployment

Tech Stack

Flutter, Node.js, Express.js, Firebase, OpenAI API, Hugging Face, WebRTC, GitHub, VS Code, Android Studio.

Why Agile?

It allows flexibility, quick iterations, and continuous feedback from test users.



7. Milestones & Deliverables

Milestone	Timeline	Deliverable
Requirement Analysis & Design	Sep – Oct 2025	App design, database schema
Core AI & Mood Tracking	Nov – Dec 2025	Functional AI & mood log
Therapist Booking & Sessions	Jan – Feb 2026	Video/text session integration
Integration & Privacy Features	Mar 2026	Consent system, encryption setup
Testing & Documentation	Apr 2026	Final testing, report, and demo



8. External Supervisor

External Supervisor: Mohid Usman

Role: Industry professional providing guidance on AI integration, app architecture, and deployment best practices. Their expertise ensures real-world relevance, technical accuracy, and industry alignment for the project.

9. References

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Thank You