cODE CRAFTERS

HACKATHON PROJECT

AI AGENTS HACKATHON

Overview

HealthAid

Enhancing Mental Well-Being with AI

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Team: CodeCrafters

Hackathon: [AI Agents Hackthon]

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Problem Statement

Many individuals facing mental health challenges lack access to personalized tools that effectively track their emotions, identify trends over time, and provide timely, actionable advice, resulting in difficulty managing and improving their overall well-being.

Introducing HealthAid

- HealthAid is a mobile app designed to help users analyze their mood and receive personalized health suggestions.
- It uses AI-driven sentiment analysis, integrates with Firebase for user management, and provides detailed health tracking charts.

Key Features

Mood Analysis

Analyzes user input using AI sentiment analysis to assess emotional states in real time.

Personalized Health Suggestions

Offers actionable advice tailored to each user's mood to help improve mental health.

Firebase Authentication

Secure login and signup using Firebase for easy user management.

Health Tracker

Visualizes emotional trends with daily, weekly, and monthly charts to help users track their mood over time.
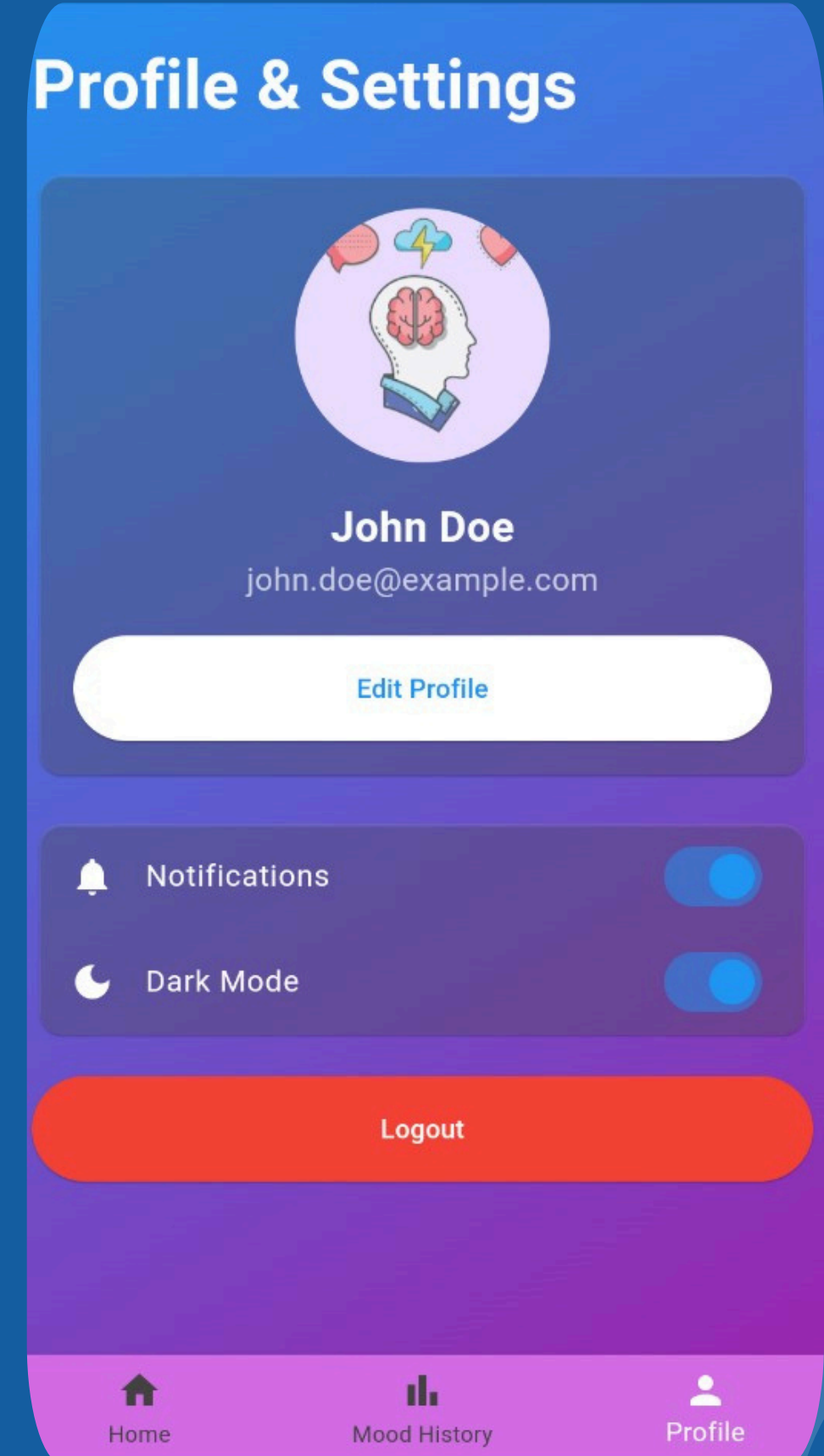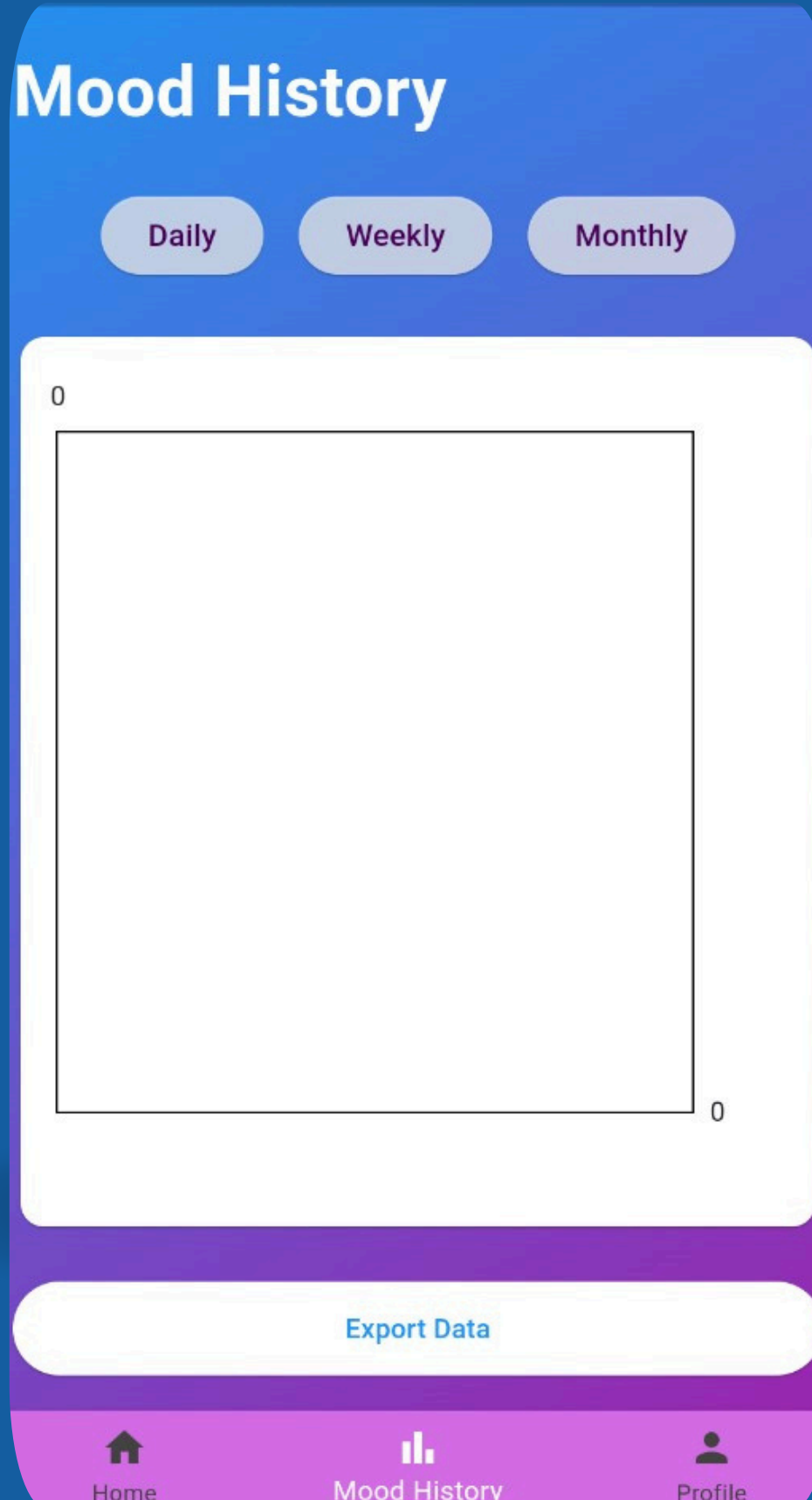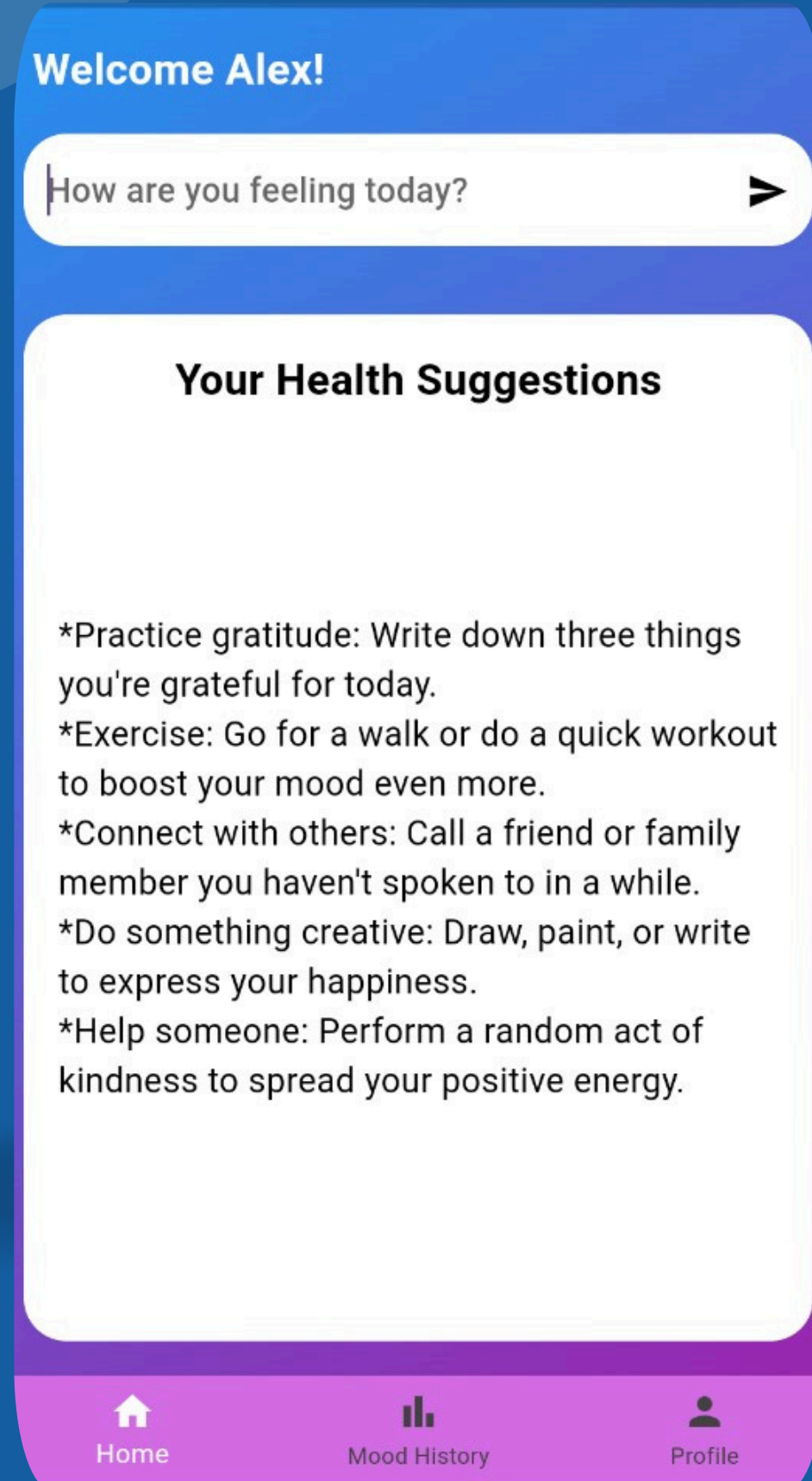
User Interface Walkthrough

User Interface Walkthrough

Technology Stack

Flutter FrameWork

Flutter was used to build the application for its powerful rendering engine and cross-platform capabilities.

Fire Store database

Firebase handled data storage and user authentication while also managing and storing sentiment data. Its real-time database and backend services supported these functionalities effectively.
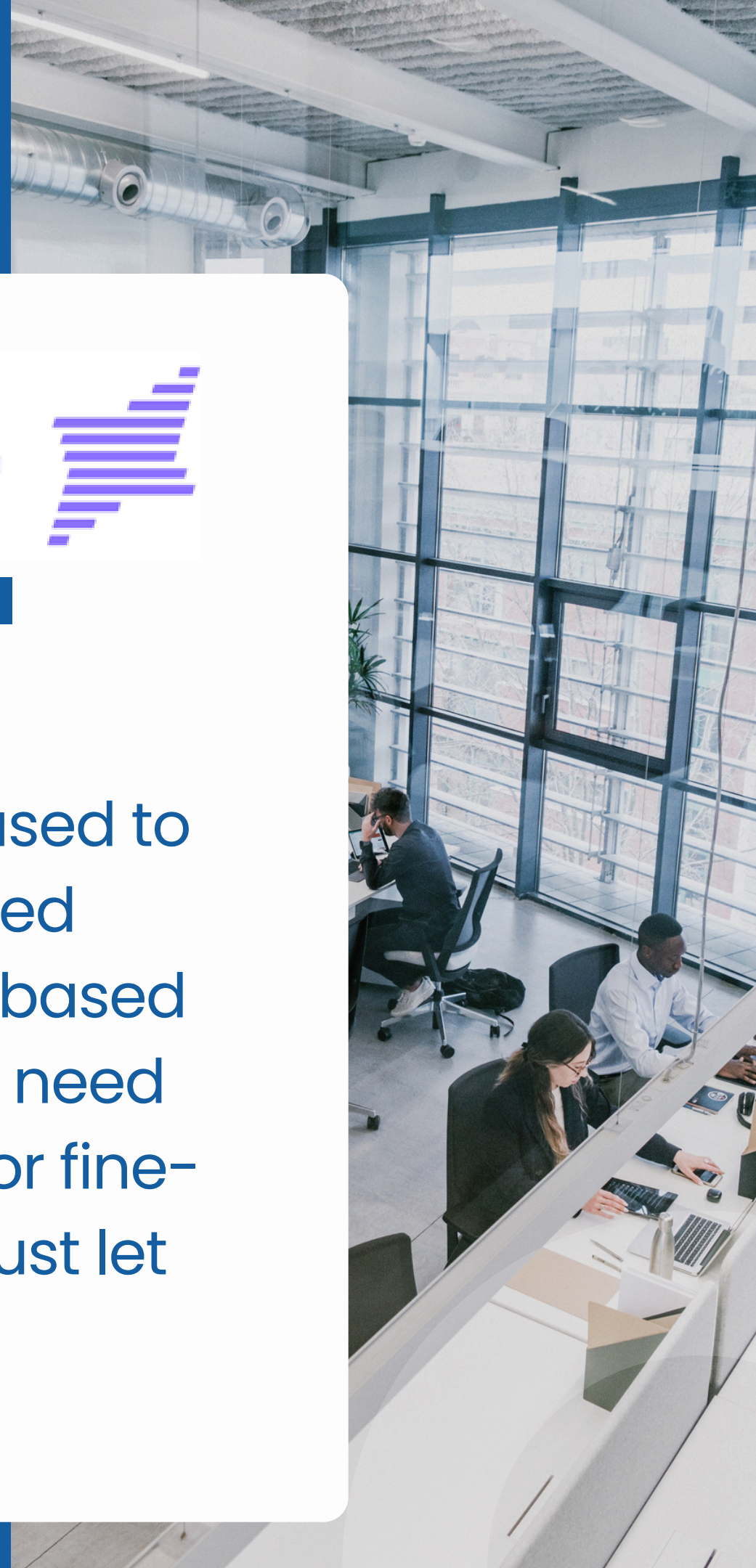
External API

Hugging Face

01cardiffnlp/twitter-roberta-base-sentiment-latest

This model from hugging face was implemented for Sentiment analysis that analyze the sentiment from user input and provide output to solar pro model for personalized suggestions

upstage

Solar pro model

Upstage Solar Pro is used to deliver personalized suggestions to users based on their mood. If you need help with integrating or fine-tuning that feature, just let me know!

Impact on Users

01 HealthAid allows users to understand and track their emotional well-being through actionable insights.

02 Personalized suggestions empower users to take control of their mental health, leading to improved well-being over time.

03 HealthAid uses Firebase for secure user authentication and seamless data storage, ensuring that user data, including sentiment information, is reliably managed and easily accessible.
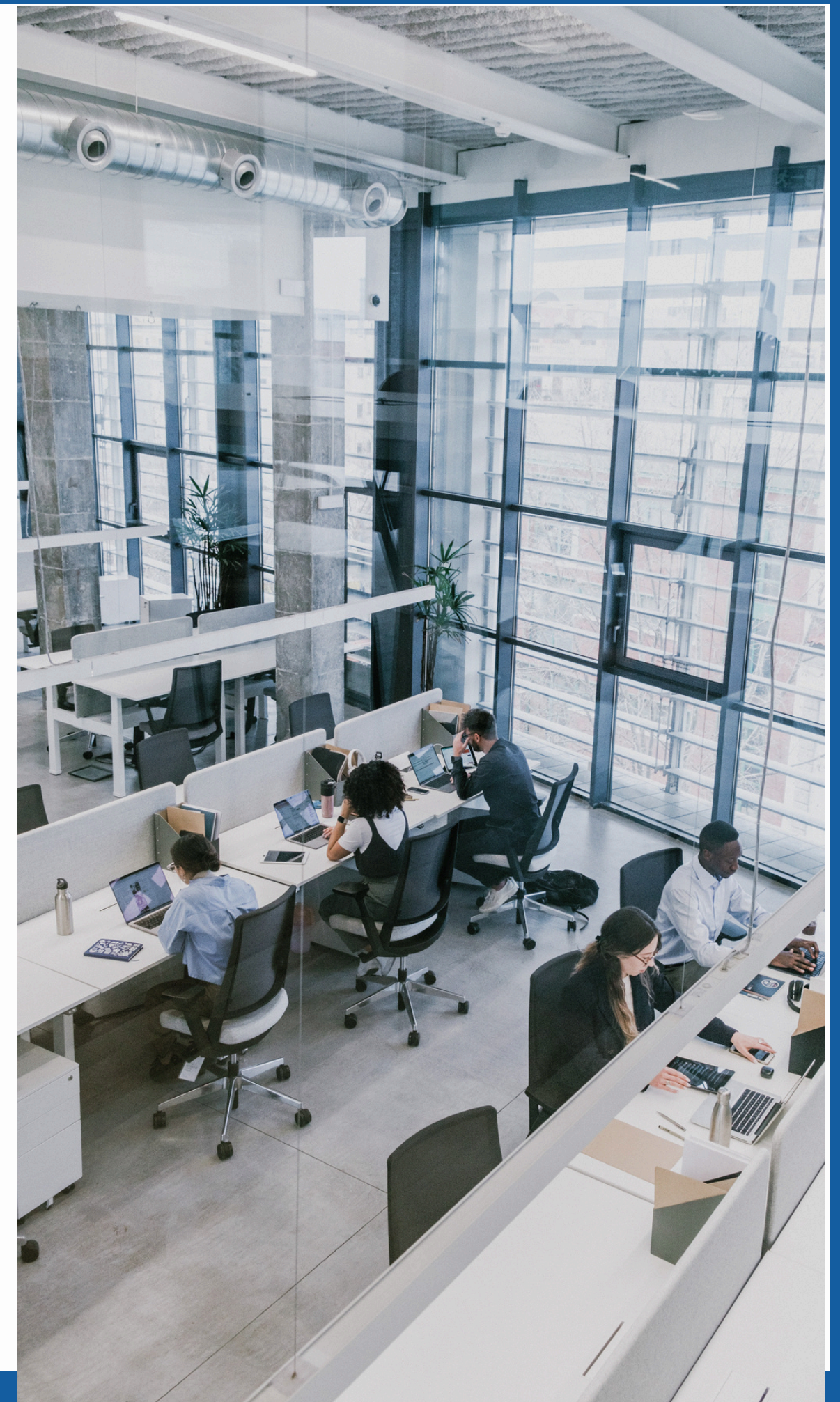
Our services

Additional Features
- **Expansion to include activity recommendations**
- **Integration with wearable devices for tracking physical health**

User Feedback
- **Further refining the user interface and features based on feedback**
- **Improving the notification system for better engagement**

CONCLUSION

- HealthAid combines AI, Firebase, and user-friendly design to help users better manage their mental health.

- Through personalized suggestions, health tracking, and secure authentication, it addresses a real-world need in mental health management.
Thank you!
[Muhammad Talha]