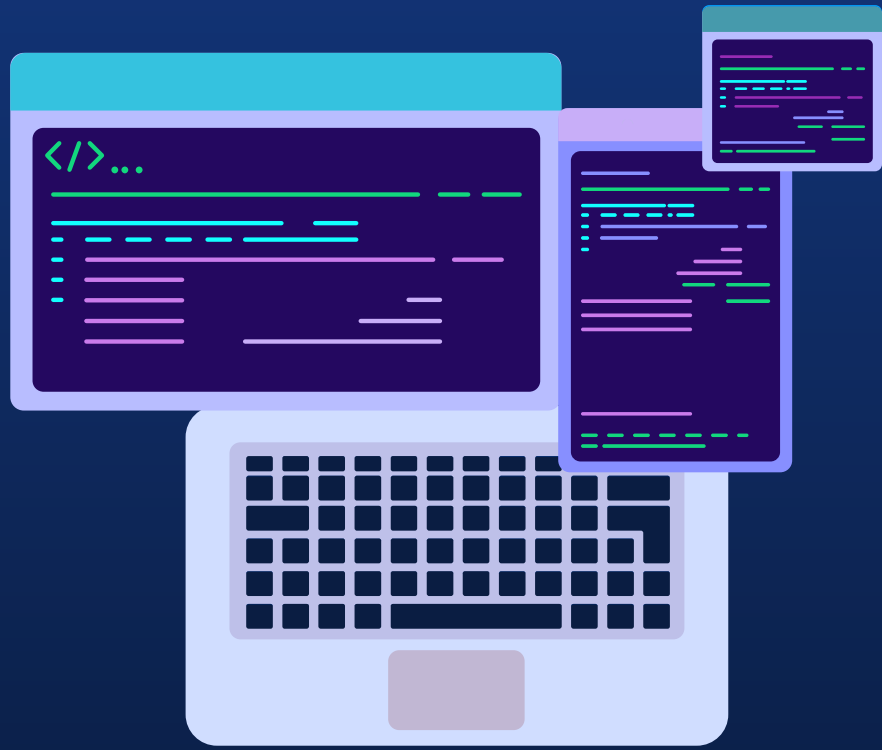
YAWN-ALYTICS



PROBLEM:

Fatigue causes safety issues in personal life and the workplace but it is difficult to track and quantify.

SOLUTION:

A fatigue detection and tracking application that delivers personalized insights.

HOW WE BUILT IT

FLUTTER

For the frontend

PYTHON + OPENAI'S GPT3.4

To generate mock data within our specified format

NODE.JS

For Cloud Functions from Firebase

MARKET SIZE

ERIN

Devised an implementation of the Psychomotor Vigilance Task using Flutter an im

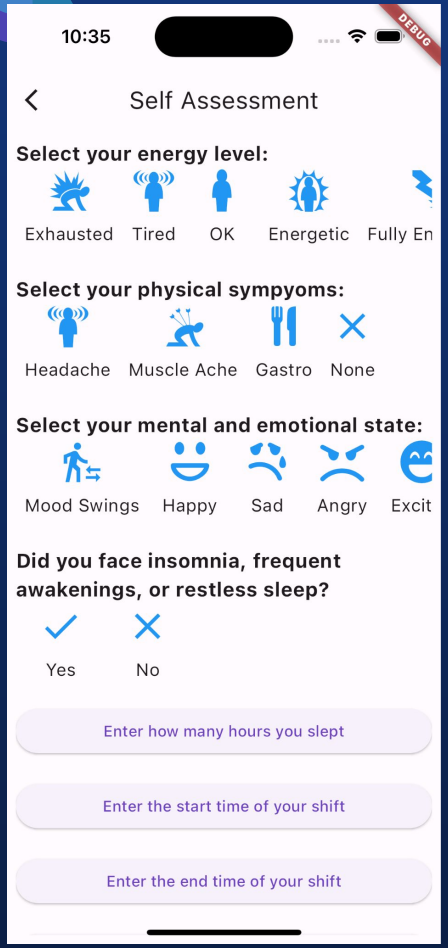
RUCHI

Worked on all aspects of the product cycle and the Self-Assessment page

STACY AND ARUSHI

Stacy came up with the initial idea, worked together with Arushi to come up with app features and specify the data format, preprocessed data to convert Mock Data into human-readable text, and generated mock data using OpenAI GPT3.5. Arushi wrangled with Firestore and FL_Charts to generate beautiful charts in our reports.

DEMONSTRATION



THE SELF ASSESSMENT + THE TEST

CHALLENGES

New languages!

Most of us did not have experience using Dart or Flutter! We learned as we went

Self-Assessment Time

too long and making the components responsive was also another challenge

Firebase/Flutter App

Because of the M1/2 chip there were problems integrating Firebase with the Flutter app

Windows Rendering

Windows rendering was taking 5-10 minutes slowing down the development

The Game

It was challenging to make a game, but Erin adapted by simplifying the scope of the game to make accomplishable within the timeframe

WHAT WE LEARNED

STACY

Learned about how different components exist and integrate within an application.

ARUSHI

Learned about Flutter and how to frontend. Also, how to do an end-to-end integration with the frontend and backend. Her day job is just being a researcher.

ERIN

Learned a lot about the Dart language

RUCHI

Learned a lot about Dart and Flutter, and UI. Learned how to use the full scope of knowledge existing on the web since nothing is cheating, in fact reinventing the wheel is a waste of time

THANKS

Questions?

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