

Elderly Virtual Assistant



Alexander Davison

Start

User Flow

Gives user

Specifies



Sriram Kodavati

Eva connects to

wifi and gets

user's name



Kadowaki

Is it time to

trigger

notification?

(30m)

User

scans

bottle

Andrew Mathews

Took medicine

confirmation

Triggers

notification

Stores info

in DB

Advised by Dr. Janet Dong and Dr. Sulsal Haque

Eva Enters

Home state

Drug Info

or Scan

Scan

Prompt user

to scan

Overview

- Problem: Millions of Americans take five or more medications a day and struggle with compliance. This problem is growing worse as America's population ages.
- EVA is a device that offers an effective and realistic solution to this problem. EVA can help patients manage their medications, improve compliance, and report results directly to physicians and loved ones.

Additionally, EVA can track other important metrics such as Isolation

and Cognitive Decline.

Achievements

- Working software that reminds user and generates reports for physicians.
- Able to scan pill bottles and store information in a database.
- Able to answer questions from users.

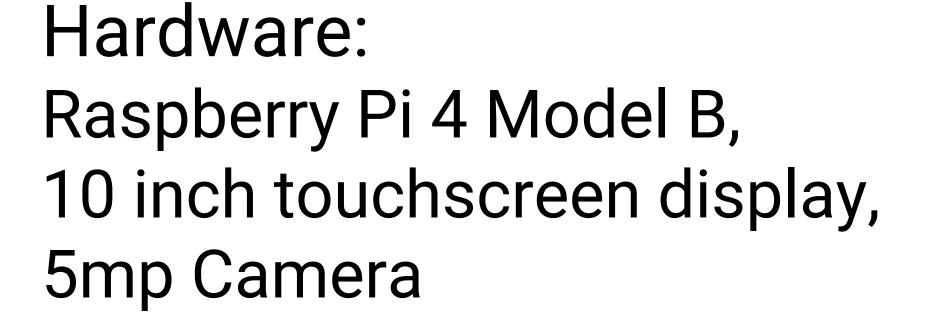
Challenges

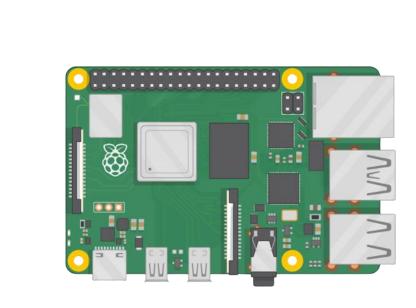
- Text recognition on curved surfaces.
- Ul needs to be Elderly Friendly.
- HIPAA limitations for reporting.

Technologies

Google Cloud Speech API

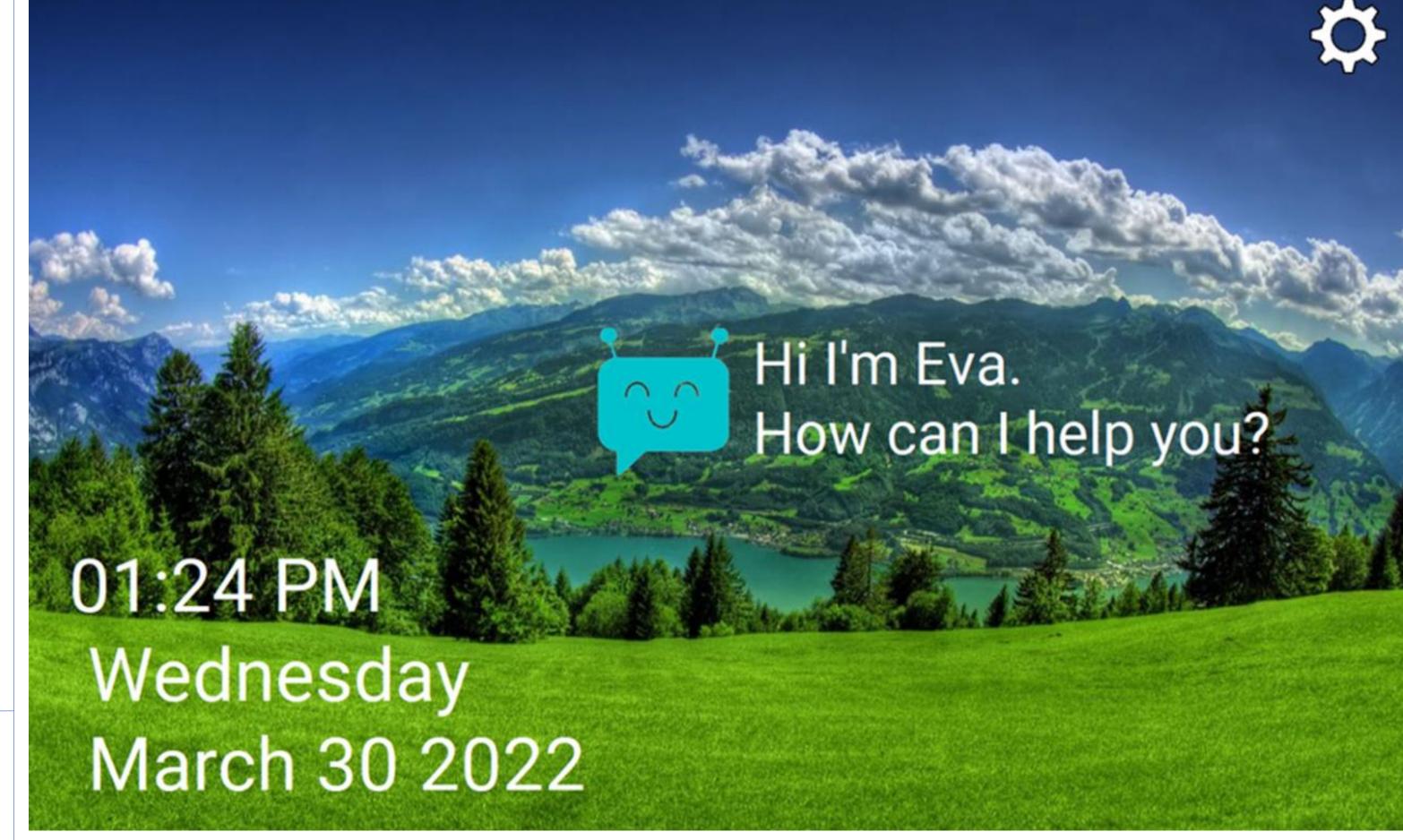
OpenCV







Home Screen



Future Plans

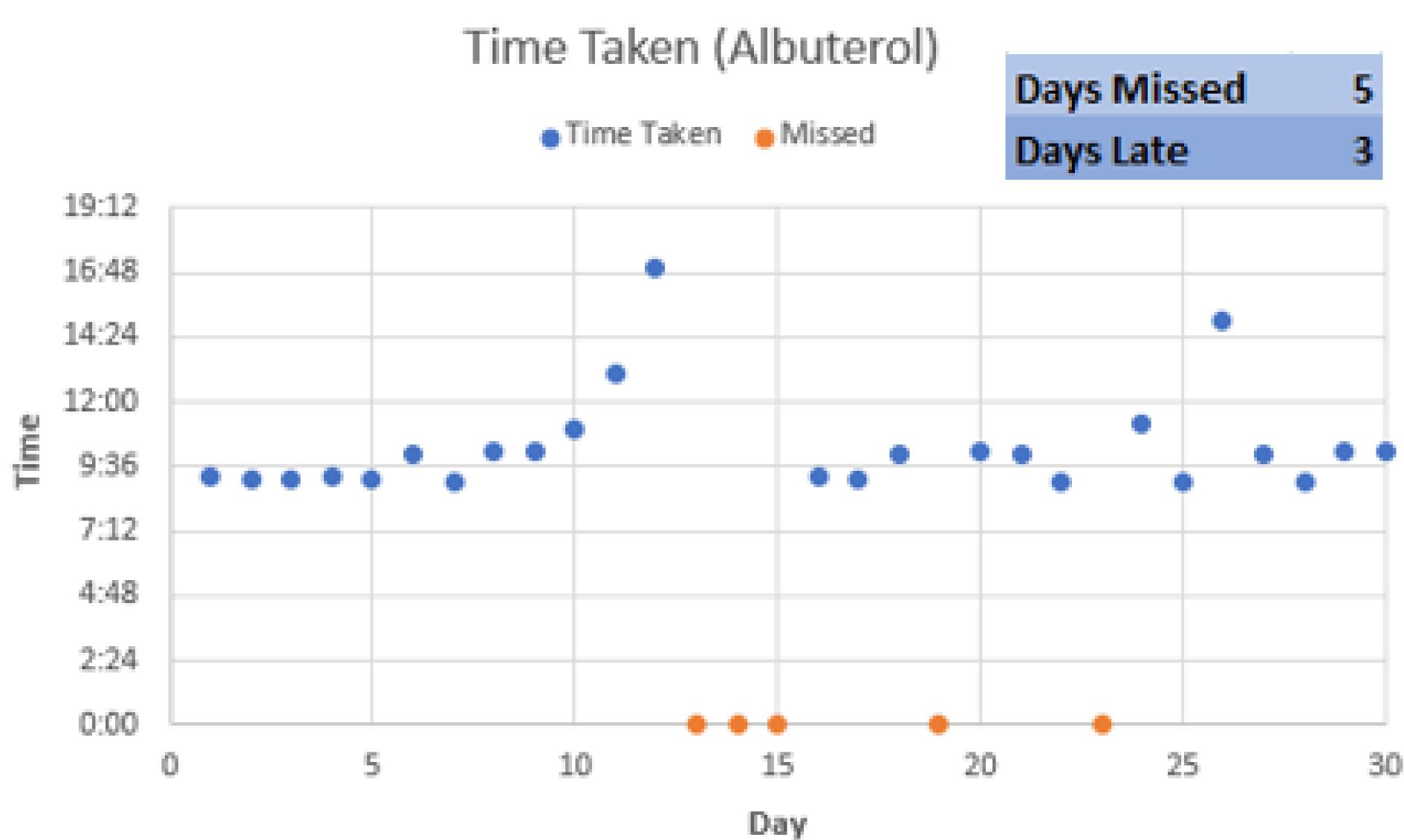
- Develop EVA phone app.
- Implement more report features.
- Move databases to the cloud.
- Mechanical pill distributor.
- Wearable reminder tool.

Example Report

Info

Asks which

Meds





PostgreSQL Python