

Team Blinkers

DevJams '21
Track: Digital Accessibility



Problem

- Digital Accessibility is still very scarce amongst people who are physically handicapped or suffer with muscle atrophy problems.
- The power of internet is not being completely exploited to not only bring in entertainment but also for healthcare and communication

PROBLEM STATEMENT

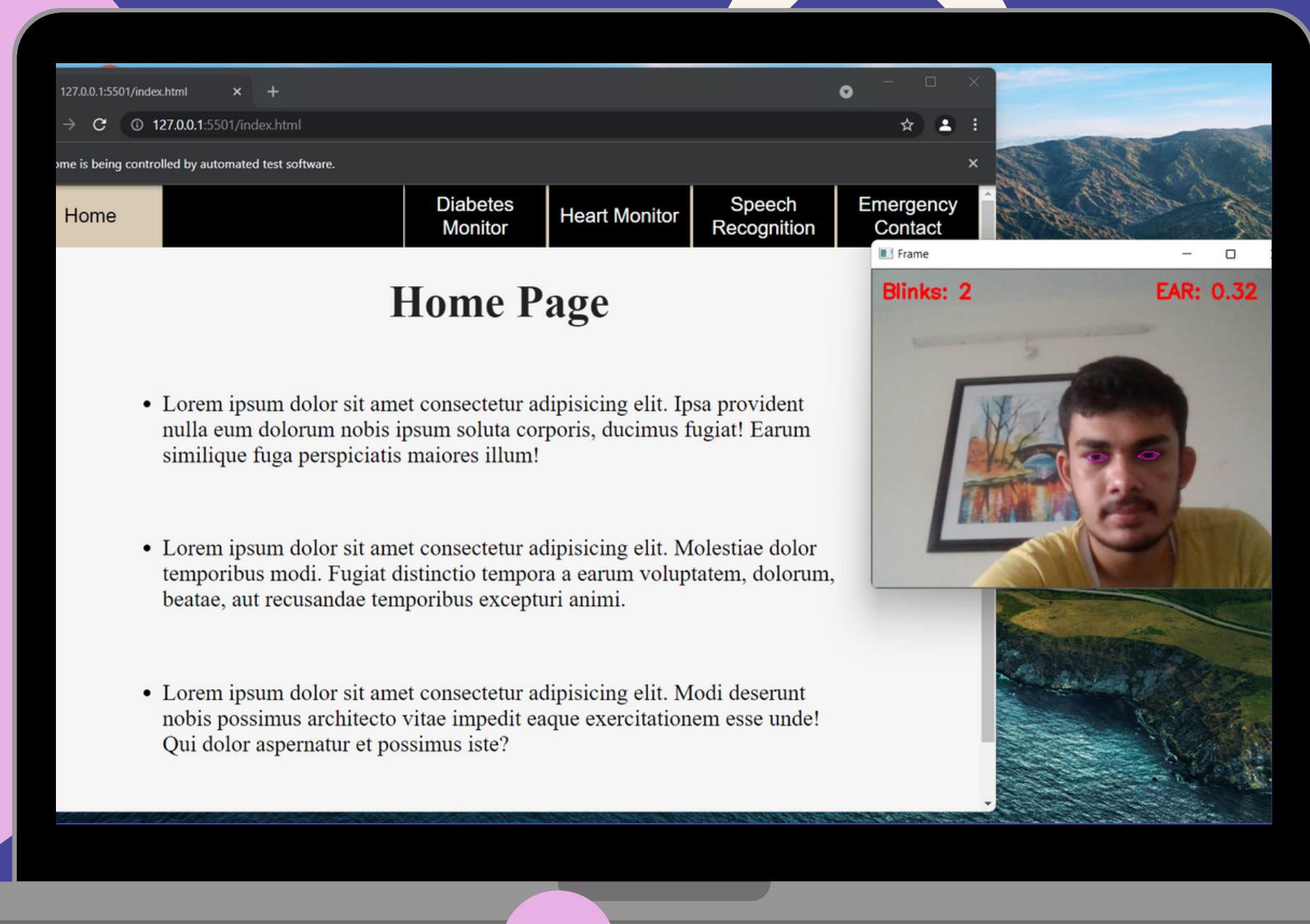


Solution

- We put together a **solution** to bring **digital accessibility** at the **convenience** of those for whom traditional digital access is still a problem.
- We try to integrate a fully **functional one stop destination** for the one's who are **physically handicapped** or unable to access web resources by means of **normal interface**.
- Our goal is to **revolutionize** the means of accessing the world wide web at their own **convenience** and also bring **together emergency** and **health features** to cater one's needs.

THE UTOPIA





Blinkerz

Your destination is one blink away!



Birth of Blinkerz

Step 1

One call to discuss the idea of the hack

Step 2

Checked out the Digital Accessibility track.

Step 3

Found out the people for whom Digital Accessibility was still an issue



TIMING

Reason 1

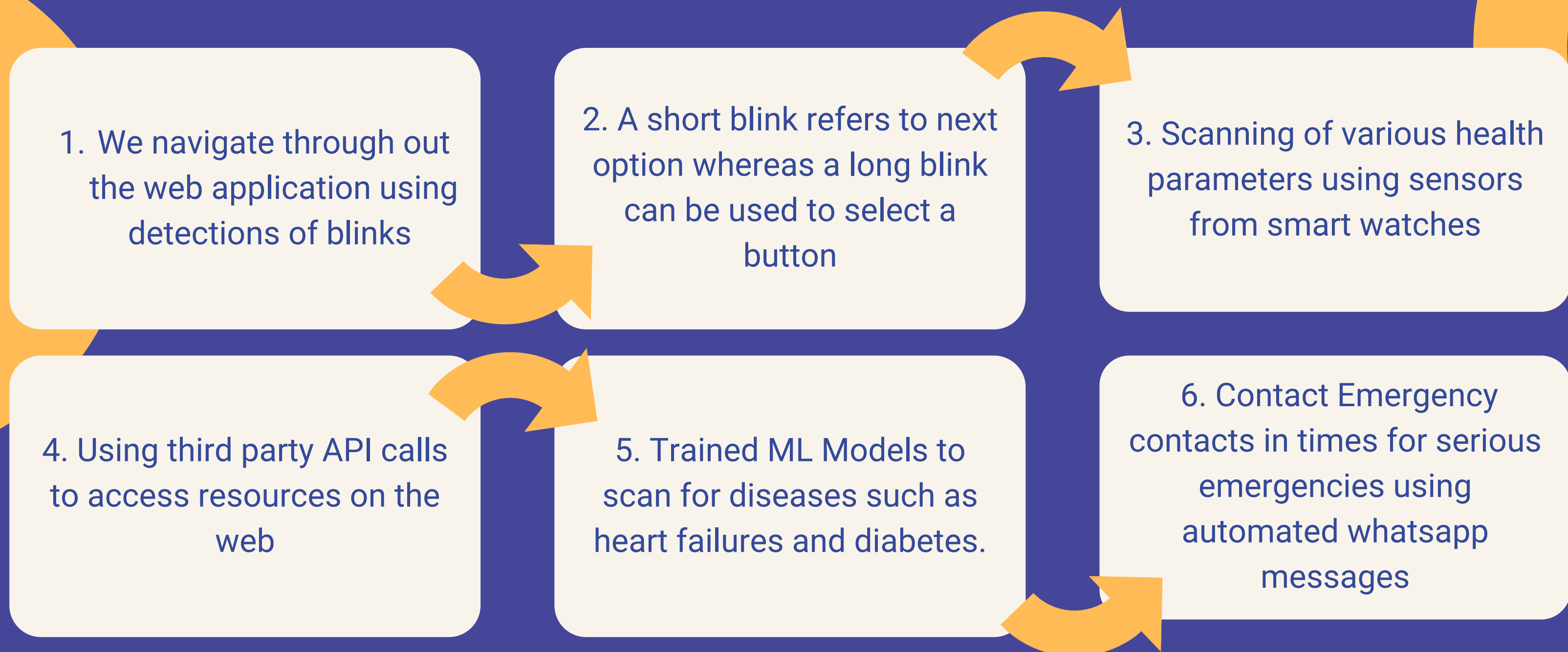
Internet is growing at a rapid pace. People who are physically challenged are equally capable of moving forward and there must be no hinderance to access the internet for education or entertainment.

Reason 2

To keep record of medical stats and also track health diseases which can be easily tracked with the help of modern sensors and gadge



Working of Blinkerz



Tech Stack

Step 1

Python Flask Frame

Step 1

OpenCV

Step 2

Selenium Web Driver

Step 2

HTML/CSS/JS

Step 3

scikit-learn

Step 3

Numpy/Pandas



Our Progress

1

Detect Blinks for Navigation

2

Create a simple UI

3

Train ML Models

4

Integration

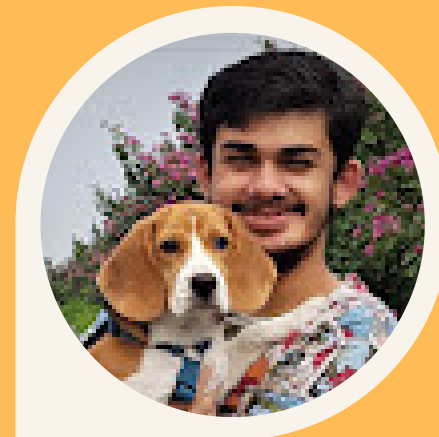


The Team



Aviral Jain

Backend & ML



Arhit Bose Tagore

Backend & ML



Vidipt Khetriwal

Frontend





THANK YOU