



MEDIC.AI

ENGAGE MENTORSHIP PROJECT



Challenge Chosen : Face Recognition



Domain : Healthcare

Mode : Website

AIM of making MEDIC.AI



Millions of individuals throughout the world do not have access to or cannot afford basic health care. Furthermore, medical staff have been in exceptionally high demand because to the COVID-19 Pandemic, with not enough to go around for everyone. I propose an AI system that can assist medical staff and potentially substitute them, so that everyone receives the care they deserve while workers can focus on saving lives.

Features



Face Recognition based, User friendly Q/A format website



Total as well as Health wise percentage based scoring



Mood Data as well as Emotion based Analysis



Articles to spread awareness and engage user

Timeline



WEEK 1

START, IDEATING, VISUALISING, LEARNING

WEEK 2

DESIGNING FRONTEND, EXPLORING APIS, LEARNING INTEGRATION

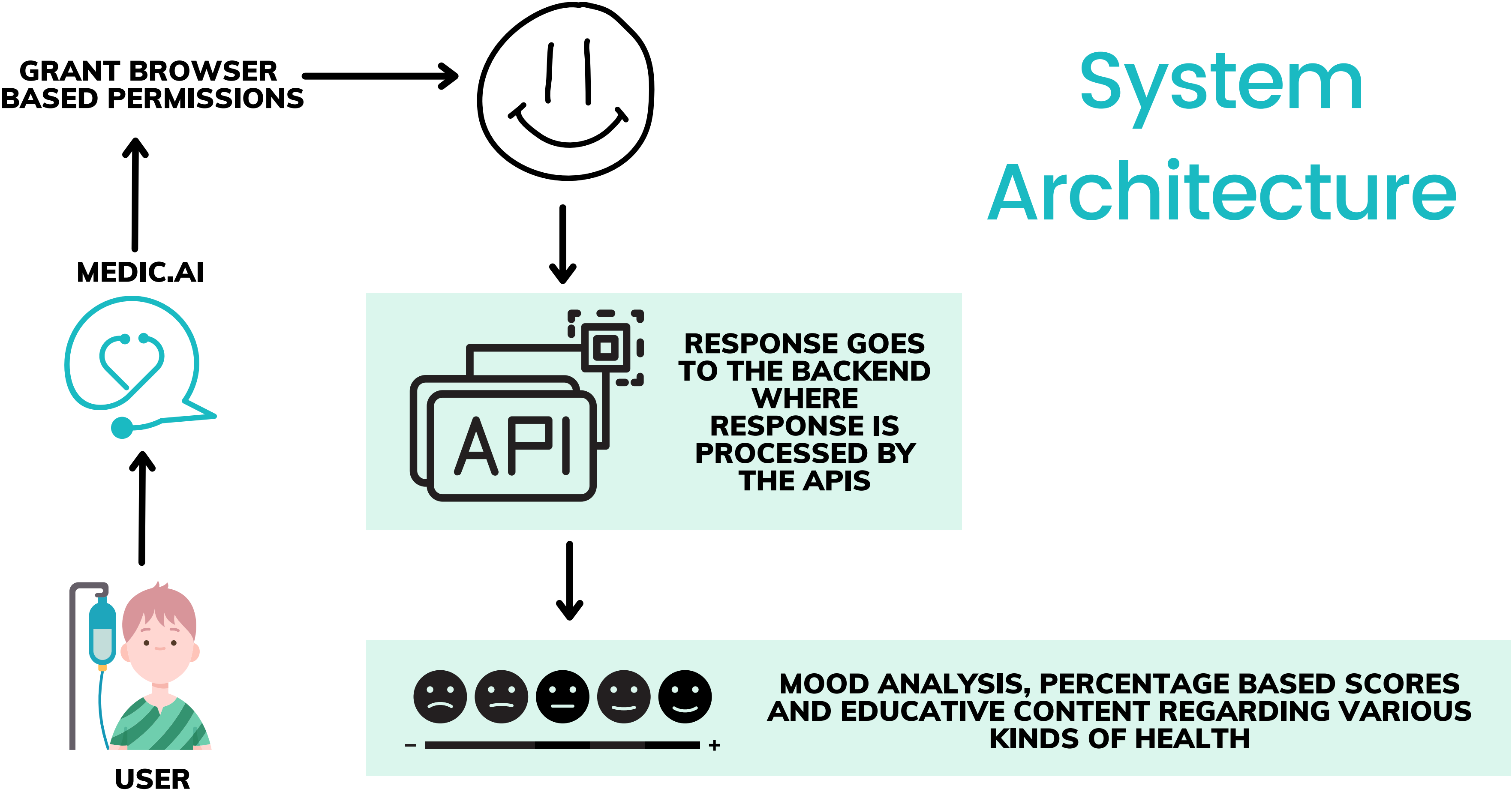
WEEK 3

FINISHING FRONTEND, FINALISING APIS AND INTEGRATING

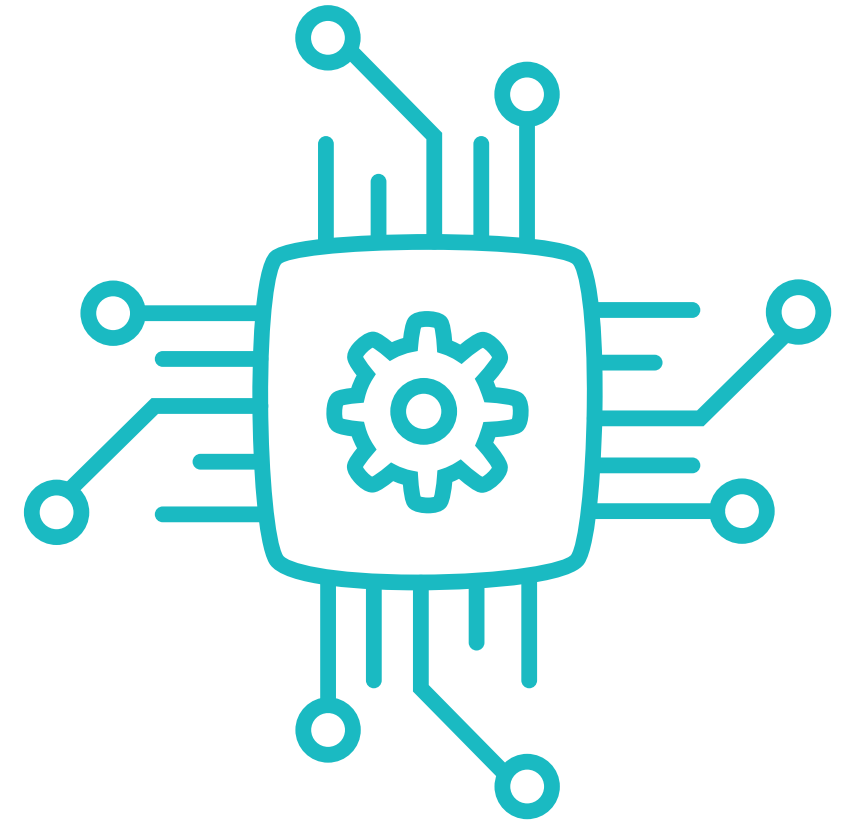
WEEK 4

PREPARING PPT, HOSTING,
PUSHING OVER CODE ON GITHUB

ANSWER SIMPLE QUESTIONS BASED ON FACE RECOGNITION



TECH STACK



The process was both long and arduous but unmistakably fruitful.
When I started this project I knew next to nothing about API usage, Node.js and Express.

- Front End: HTML, CSS, Bootstrap, JavaScript
- For Face recognition: Face-API that's wrapped with Tensorflow and OpenCV
- For Speech : Web Speech API
- For Medical Information : Infermedica-API and MediaWiki
- Middleware: Node.js and express

Problems faced by me



- One of the most difficult tasks was to have the facial recognition and emotional detector work in the same video in REAL-TIME!
- Another major issue was the painstaking bootstrap formatting and finding the right illustrations and frontend material of high quality and without watermark
- Finding the right API and Getting access to the APIs was also an issue, as gaining an access key took several hours.
- Having fourth semester examinations throughout the month of may !

Future Scope

- Adding a BPM monitor i.e. providing heart rate and cardiovascular analysis
- Suggesting nearby professional consultation in case of alarming results
- Making a recommendation system for the educative content and an automated newsletter
- Taking more information and even psychometric tests from facial recognition



Conclusion

As a result of this project, I not only made my first ever project using API but also learnt how to integrate using Node.js and Express

I learnt new technologies, interacted with various like minded and even built this along with giving my first ever offline exams

It indeed was a great learning and enriching experience



Live Demonstration

shrutityagi4102/medic.ai-engage



As part of Microsoft Engage's Facial Recognition track I have made a website which helps a user get a easy...



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Contributor



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Issues



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Stars



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Forks



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As part of Microsoft Engage's Facial Recognition track I have made a website which helps a user get a easy medical diagnosis - GitHub - shrutityagi4102/medic.ai-engage: As part of Microsoft...





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