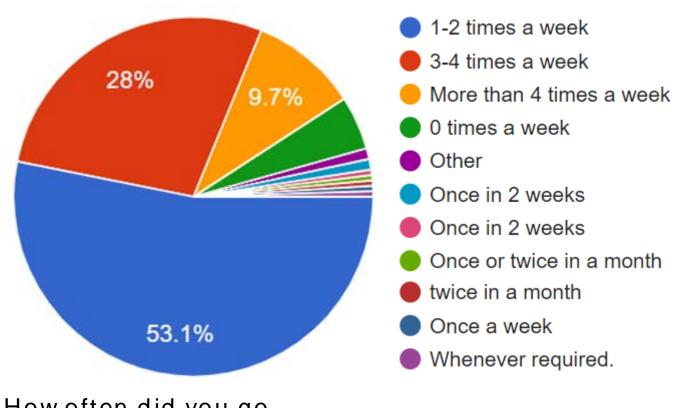
Disolin Shop with ease

PROBLEM

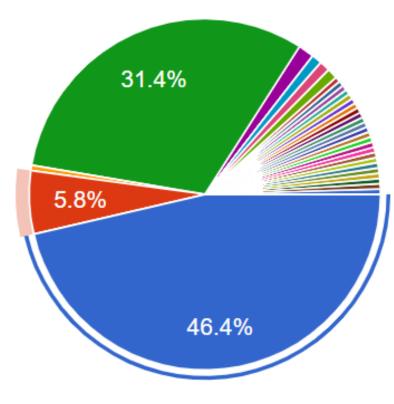
My mom goes to buy her grocery at 12PM and at the entrance of the store she is handed a token requesting her to visit the store at 6PM. Because the store lets in only 5 customers to a void crowding and maintain social distancing.





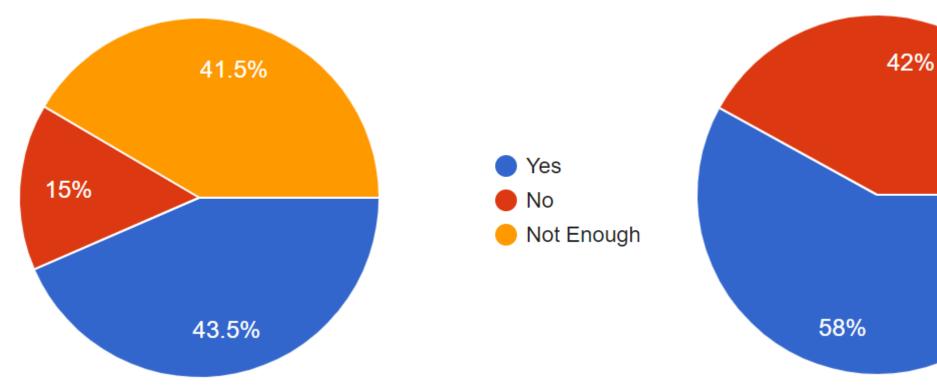


How often did you go shopping prior to COVID-19?



How often do you go shopping during COVID-19?



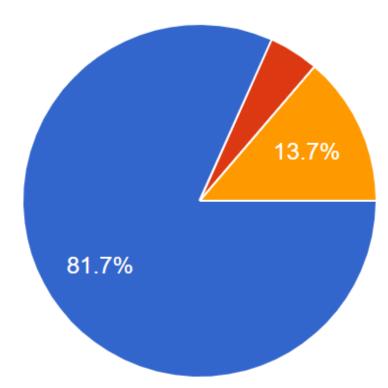


Do you think stores are taking appropriate measures to promote a safe environment?

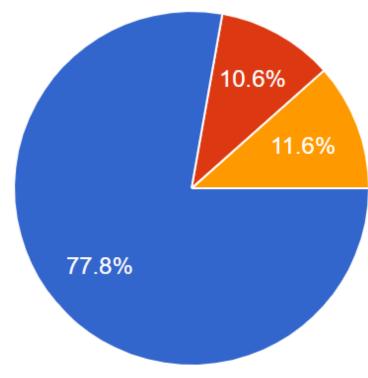
Have you stood in queues outside your local supermarketS during this pandemic?



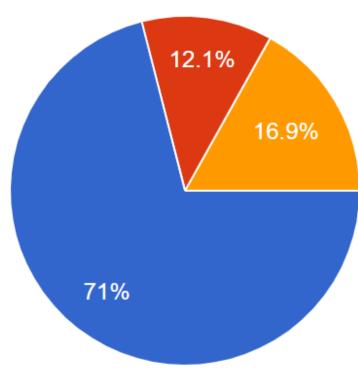




Would you like to know how crowded is your local store before you visit?



Would you like be notified when the local store is less crowded?



Would you like to book your own time slot at your local store when it's less crowded?

WHY DISJOIN?

1 Pooling real-time foot traffic using counters



2 Estimating traffic for the upcoming time slots



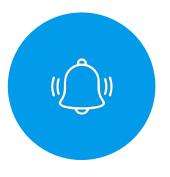
3 Option to book
Provision for E ticketing



4 Community Volunteering
Elderly, Needy, Disabled &
Immunocompromised



5 Subscribe option SMS & Email alerts



6 Curbside pickup



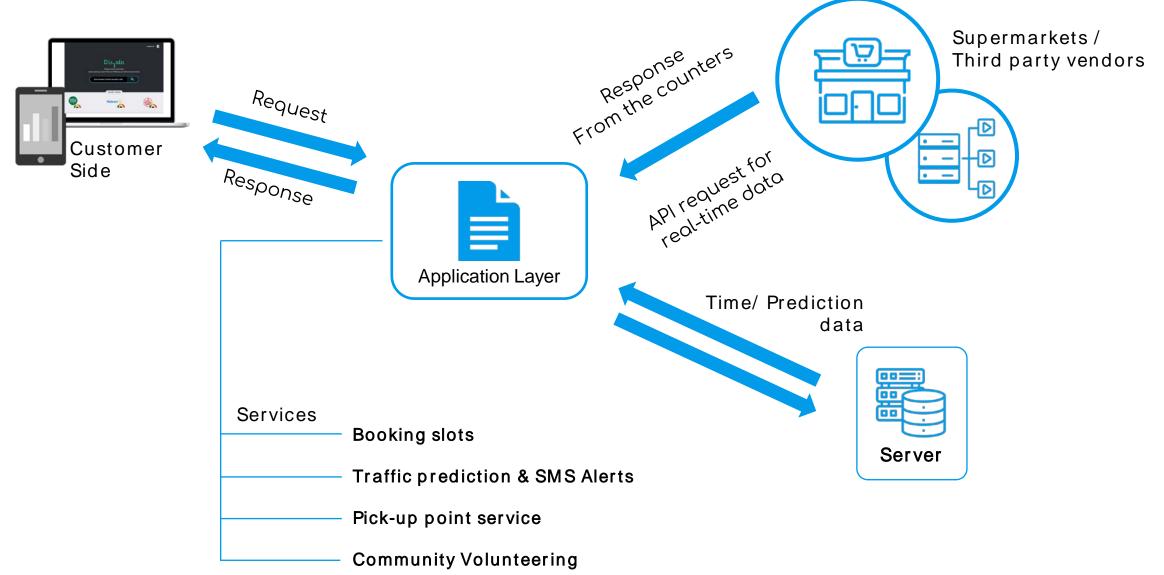
Dis_{loin}

MARKET COMPARISON

DESCRIPTION	CURRENT SCENARIO	DISJOIN
Pickup	✓ Prolong waiting period	✓
Delivery	Prolong delivery option	
Social distancing		✓
Book Visit		✓
Real-time data	✓	✓
Prediction data	✓	✓
Reduce wait time		✓
Community volunteering	✓	✓
Alerts		✓

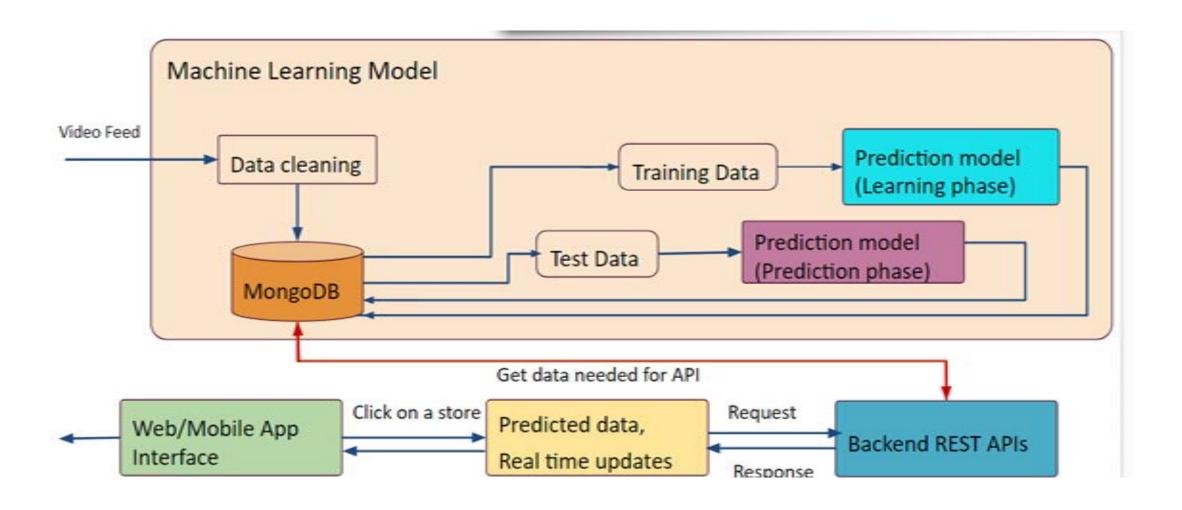


IMPLEMENTATION

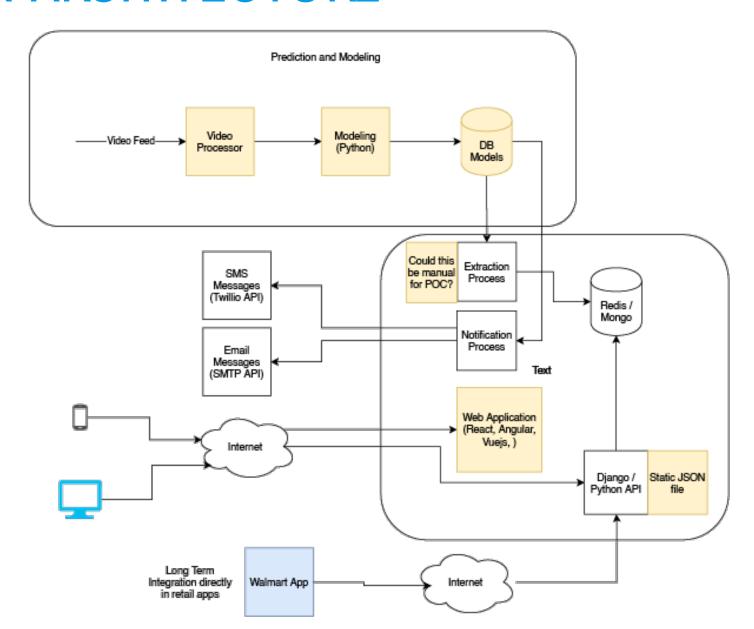




HIGH LEVEL DESIGN ARCHITECTURE

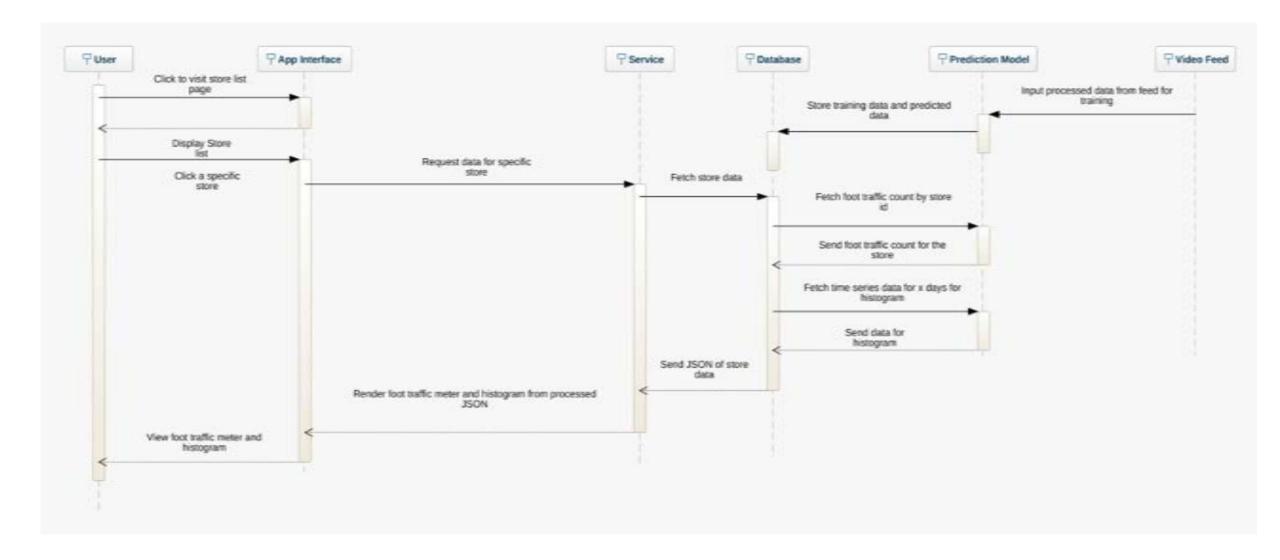


DESIGN ARCHITECTURE





UML SEQUENCE DIAGRAM



HACKATHON TIMELINE

Task	Timeline
Create React App Basic UI	17th June
Prediction API	16th June
Video Feed Processor	20th June
Store list API	19th June
Store data counter for foot traffic meter API	19th June
Time series data for histogram API	20th June
Front end Histogram and Traffic meter (with static JSON)	20th June
Integration with APIs and rendering data on Front end	21st June

WHAT WE ACCOMPLISHED?

- Build a development team
- Establish our product design architecture
- Finalised on the frontend and backend technologies for development
- Developed the MVP app
- Deployed the MVP on heroku for public viewing
- Streamline our prediction model

WHAT NEXT?

- Establish channels for getting real time data for the production model
- Looking forward to be accepted by Helpful
- Develop the app to a full product

LINKS

- React App: https://powerful-citadel-31978.herokuapp.com/storeinfo
- Predication: https://drive.google.com/file/d/1f3-yrikQQyIn_8G7KF4IOfBY1yDG0wNL/view?usp=sharing
- **Design Prototype:** https://xd.adobe.com/view/dac681c5-c530-4abf-7561-27975a78396e-acf7/screen/fdb9a46f-3700-4829-8375-65dd9065c785/?fullscreen



Limit the number of customers from entering the supermarket, curbing the spread of coronavirus, therefore, flattening the curve and easing the way they shop for goods.