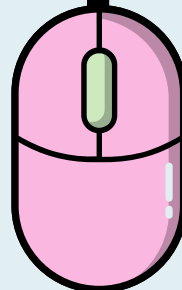
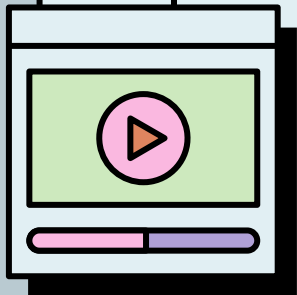


# Spark! Bytes Group One

By: Victoria Mulugeta, Anthony Xie, Khadija Ali, Collin Barber



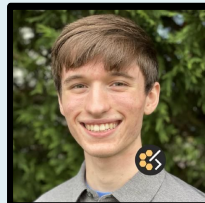


# Meet The Team



**Victoria**

Frontend Development



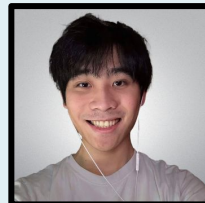
**Collin**

Nerd



**Khadija**

Frontend Development



**Anthony**

Backend Development

# Requirements.....

- User Login
- User Authentication
- Home page
- Dashboard
- Profile Page
- Food post board
- Map of food locations
- Item upload feature
- Database
- Allergy/Dietary Restrictions included
- User has ability to delete and edit item
- User Authentication





# Communication



## Jira

- Documenting features and requirements
- Splitting work and delegation

## IMessage

- Weekly meetups
- Fast communication
- Alerts, changes, issues, and teamwork

## GitHub

- Documented PRs
- Reviewing each other's work



# Tech Stack

## Frontend

- Next.js
- Typescript
- Tailwind CSS
- Google Maps

## Backend

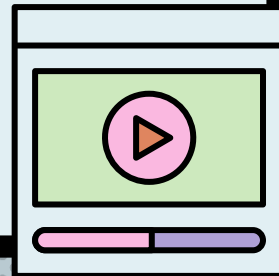
- FastAPI Server
- SQLAlchemy
- Google Auth



# Front End

>>>>>

- Next.js
  - **Dynamic Routing:** Simplified navigation with pages like `/map` and `/profile`.
  - **API Integration:** Used `useEffect` for client-side data fetching
- Typescript
  - Ensures type safety and improves collaboration by defining clear interfaces for events, users, and preferences.
- Tailwind CSS
  - Allowed us to build responsive UI components quickly
- Google Maps
  - Displayed events dynamically with custom markers



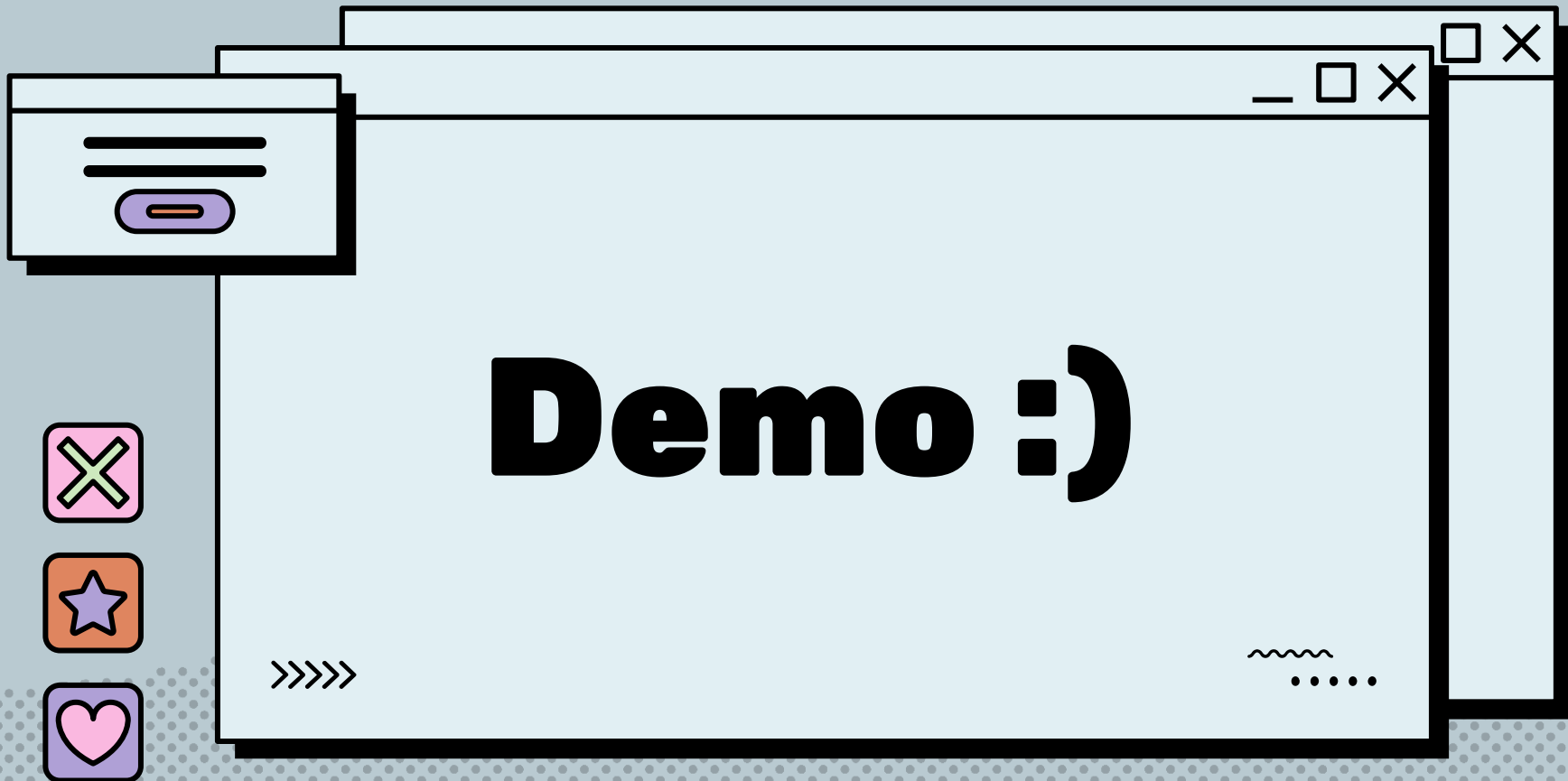


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# Back End

- FastAPI (python) backend
- Runs a SQLite database locally (connected through SQLAlchemy)
- Automatically generates endpoints based on the SQL table









# Improvements

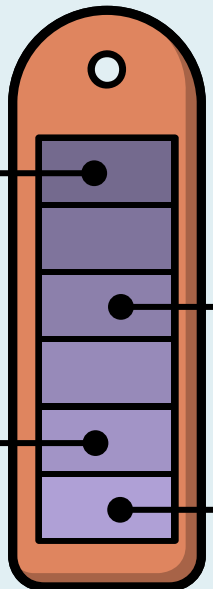
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## Food Waste Tracker

Track how much food is saved from waste over time and display data to users

## Notification

Integrate notification methods like SMS or email so users can be reminded of events they would like to go to



## Sight Impaired Friendly

Add text resize options and ability to change color palettes for all types of color blindness

## Real-Time Inventory

Show how much food is left in real-time to reduce disappointment when users arrive late.



# Takeaways



## **Collaborative Development**

Gained a full understanding of the AGILE process and how it supports iterative development and team collaboration.

## **Version Control**

Now have a better understanding of Git/Github and how to handle merge conflicts.

## **Frontend Development**

Learned to build responsive and user-friendly web interfaces using Next.js, TypeScript, and Tailwind CSS.

## **Backend Development**

Learned backend systems with SQL, managing databases, creating APIs for data integration real-time communication with the frontend.

