

## Project Name

- greenergrocer

## Idea

- A way to encourage more group ordering for delivered food
  - encourage people to order from the same place as people around them
  - Let's say oh i want to order tonight, i can put a listing on a website so that other ppl can join a group order.
  - What are incentives?
  - For groceries
  - Making delivery of food more efficient
  - possible concern of how the order is split - need platform cooperation
    - can you handle that with how the discount works?/a deposit
    - kickback to the apartment complex to handle that?
    - But also the delivery services don't cooperate amongst themselves like grubhub + doordash optimization does not exist only within themselves individually
      - true you also act as like a meta platform to find cheapest delivery fee for the group

## Pitch

- People are lazy - they want to order groceries
- Time incentive is working against us - grocery shopping is time consuming
- Need to attack this with monetary incentive
  - Pooling orders helps save on delivery fees and reduces emissions
  - Suggest swapping items out for other similar items that have a lower footprint

## Requirements

- Frontend
  - Ordering platform
    - Suggestions for when to order to reduce emissions
    - Present items and stores from Instacart/other services
  - Dashboard for historical data on order emissions
    - Order history with total footprint and visual incentives for lowering compared to previous months
    - Insights to explain why footprint went up - ex. you ordered more meat this month compared to last month
- Backend
  - Ordering platform

- Scrape Instacart for order data
  - Official API??
  - Recommendations api that connects similar items
- Take time preferences from many users and group them together
  - When2meet
  - Suggest times with discount
- Pricing algorithm
  - Arbitrage their delivery fee
  - How does this work?
- Place orders when needed
  - Stub this out for demo obv
- Keep order history
- Database of carbon emissions for different items
  - Generate recommendations based on category, emissions, and pricing data

## Technologies

- Frontend
  - CRA/TS
  - Responsive
    - Make it a PWA for sheeshing demo
- Backend
  - API surface
    - Python/Flask
  - Scraper
    - TS/Playwright
  - redis? or just bigly mongodb
- Authentication
  - Some funny o auth library idk