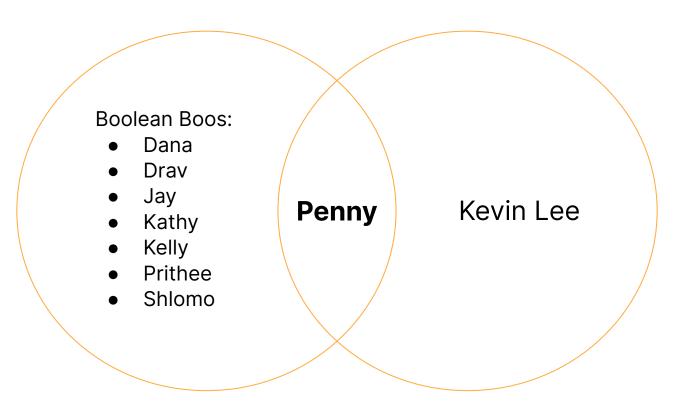


INTRODUCTIONS



PROBLEM

- Rising costs of grocery store items – overall rise in costs of living
- Financial stress for many
 - Students
 - Seniors
 - Lower-income individuals/families
- Time consuming to find the cheapest items – resort to convenience



OUR PRODUCT

- Cross-platform application for grocery store price-checking and comparisons
- Search and sort for items by price and distance, create and manage a shopping list
- Implements real-time data from grocery stores and location
- Existing GitHub repo on mostly frontend work & sample database

Touched on our user stories

Targeted user groups

- Students
- Seniors
- Anyone financially conscious with grocery shopping

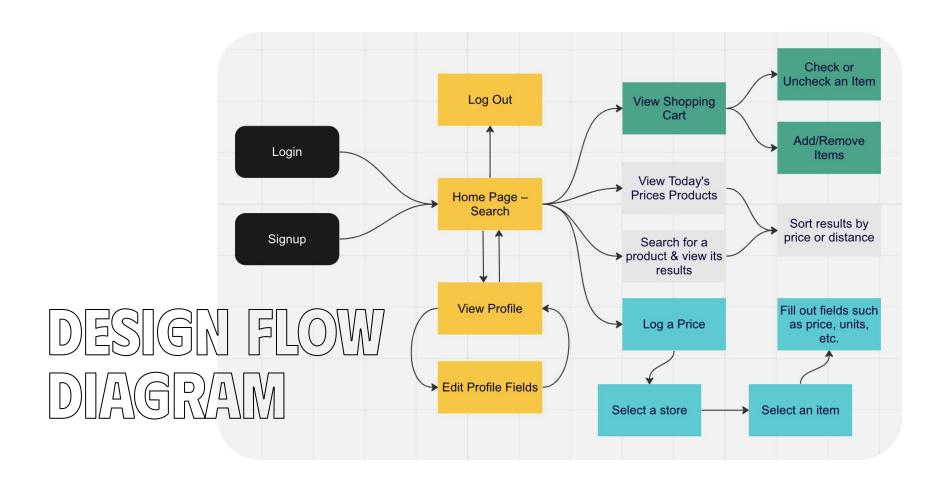




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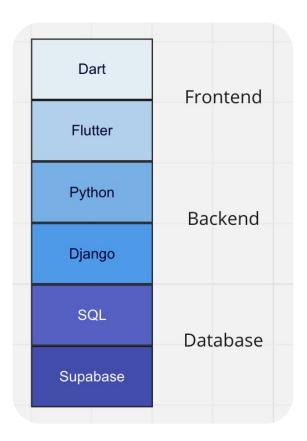


ARCHITECTURE 8 TECHNICAL DECISIONS



TECH STACK

- Flutter (Dart)
 - UI toolkit for natively compiled mobile applications
- Django (Python)
 - High level web framework that uses Object Relational Mapping
- Supabase (SQL)
 - Cloud service that offers
 PostgreSQL database
 - Real-time updates



CLIENT-SERVER ARCHITECTURE (API-DRIVEN)

Frontend

 Presents UI and communicates with backend through HTTP requests

Backend

- Provides endpoints through RESTful API
- Handles business logic
- Returns data from database to frontend

Database

Holds the scraped data

Creates data tables based on Django

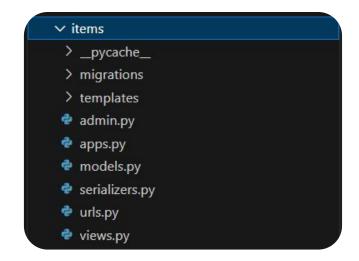
models

```
var response = await http.get(Uri.parse(
    'https://boolean-boos.onrender.com/items/?ordering=$ordering&name=$searchText'));
```

	O = id uuid ∨	name text v	store_name text v	price float8 v
	c52e93fa-0688-4d	Vegan Mature Cheddar Cheese Slices	Metro	3.5
	24c29bb5-bc80-42	Avocado	Metro	1.99
	6987ea2d-9906-47	Romaine Lettuce	Metro	2.99
	1c79113b-1f72-4a3d	Spring Salad Mix	Metro	1.92
O	00b0d4f6-68cc-42	Green Leaf Lettuce	Metro	3.49

CLEAN PRACTICES

- Django Model-View Structure
 - Follows common API-Driven
 Architecture
- Follows PEP8 and Effective Dart conventions
- Code follows DRY principle
 - No duplicate code
- README.MD
 - Project inspiration and step by step instructions
- Comments, requirements.txt, and pubspec.yaml

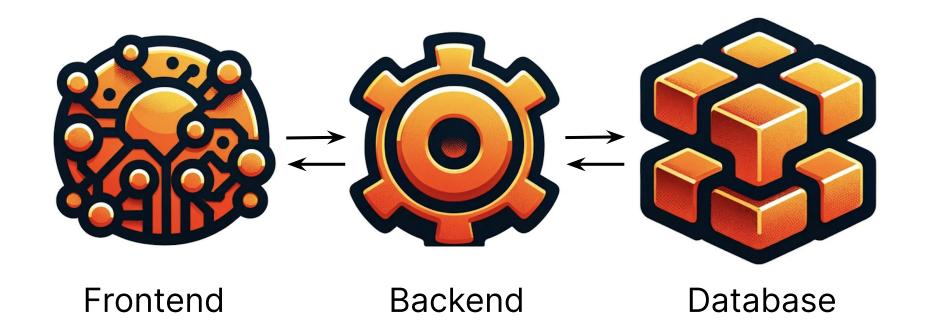




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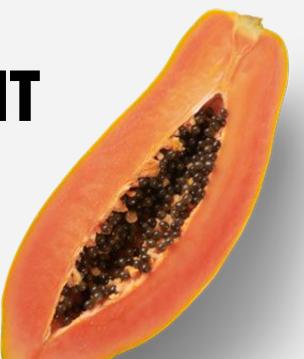
PROCESS DEVELOPMENT

WORKING TOGETHER











DEPLOYMENT

- Django backend is deployed using render
- Flutter frontend is deployed with GitHub pages



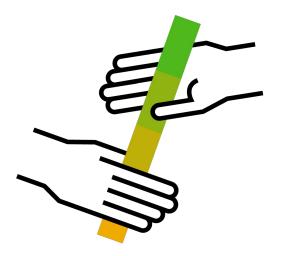


PARTNER HANDOFF

- Project could be accessed through URL
- Access to our GitHub such that he can clone it
- Access to the our database on Supabase so he can look at our table
- Detailed instructions on the README on how to run the project locally









REFLECTIONS

- Do not underestimate the difficulty of any single task
- Deploy first, code later
- Get started early and code consistently throughout
- Meet in person soon and often
- Rely on home written code instead of frameworks
- Pair programming is really helpful when cutting across group concerns
- Work with tools you know and have mastered



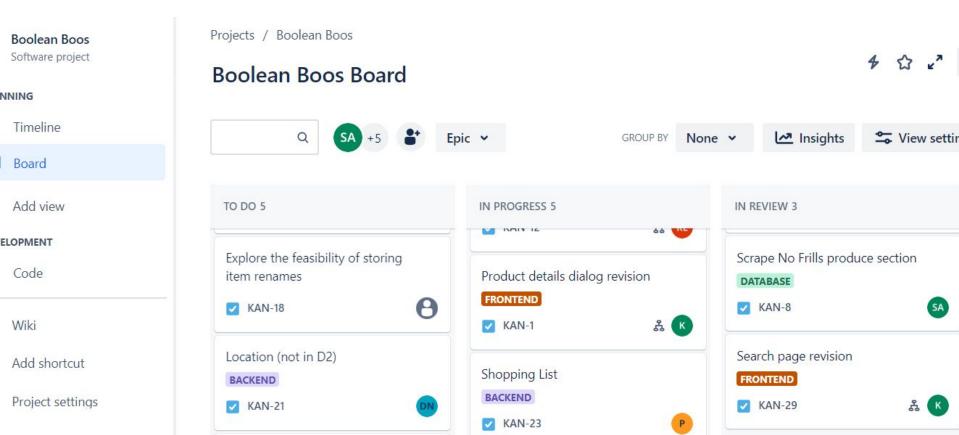
LECTURE TAKEAWAYS

- Jira boards
- Clean code and effective documentation
- Took meeting notes
- Met twice a week to keep ourselves on task
- Met in person and it really helped with group cohesion
- Planned out our software architecture ahead of time
- Branching and PR's
- Enjoy ourselves and the process of development

MEETING NOTES

Aa Meeting	Date	≔ Type		► Next Meeting
Partner Meeti OPEN	November 28, 2023	Partner	https://utoronto.zoom .us/j/83608300694	
▼ Team Meeting #	November 28, 2023	Team	Discord	
TA Meeting #	November 23, 2023	TA	https://utoronto.zoom .us/j/82618465762	
Partner Meeting #	November 21, 2023	Partner	https://utoronto.zoom .us/j/83608300694	
▼ Team Meeting #	November 21, 2023	Team	Discord	
■ Team Meeting #10	November 20, 2023 11:59 PM	Team	Discord	
₹ Team Meeting #9	November 20, 2023 11:00 AM	Team	Discord	🕵 Team Meetin
TA Meeting #7	November 16, 2023 8:10 PM	TA	https://utoronto.zoom .us/j/82618465762	
Partner Meeting #6	November 14, 2023	Partner	https://utoronto.zoom .us/j/83608300694	
	November 14, 2023	Team	Discord	🕵 Team Meetin

JIRA BOARD







DANA

- Designed frontend components
- Implemented login features
- Connected backend to frontend components

DRAVIN

- Project Manager & Software Developer
- Backend infrastructure for Account User and for the Shopping Cart
- Linked backend to database

JAY

- Implemented search and sort functionality for items
- Created API endpoints

KATHY

- Designed & developed user interfaces
- Refined frontend components to maintain visual consistency
- Connected backend functions with frontend

KELLY

- Database management
- Connected database to web scraper
- Wrote iteration reviews and readme

PRITHEE

- Implemented location searching API (Google API)
- Created new database on Supabase
- Enabled Database communication with Backend
- Deployed Frontend
- Deployed Backend

SHLOMO

- Scraped item info from both No Frills & Metro
- Added said items to the database