



ShopSavvy

A Grocery Comparison App

Binary Bandits

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The background is a dark blue gradient with several horizontal bars of different colors and lengths scattered across it. The colors include white, pink, cyan, and a darker shade of blue. The word "Background" is centered in a white, sans-serif font.

Background

Motivation

- Save money on groceries by finding the lowest price points among local grocery stores.
- Importance of budgeting for many individuals and families
- Create a simplistic and intuitive web app to elevate the shopping experience for users



Project Goals and Target Users

Project Goals

1. Help users identify the stores with the lowest prices for their grocery needs to save money.
2. Allow users to create shopping lists and compare prices for all items on their list.
3. Offer a user-friendly interface that makes it easy for users to navigate and compare prices.

Target Users

1. Budget-conscious individuals or families who are looking for ways to cut their grocery bills.
2. College students who are just starting out and want to save money.
3. Busy professionals who want to save time and money by streamlining their grocery shopping.

Main Functions and Unique Features

- Search for products
- View product details
- Add, delete, and edit products in the cart
- View account overview
- Contact developers
- View cart in two different views
- Calculate gas cost for the shopping trip
- Save cart as a shopping list
- View, delete, and edit shopping lists



System Design Details

Technical Stack



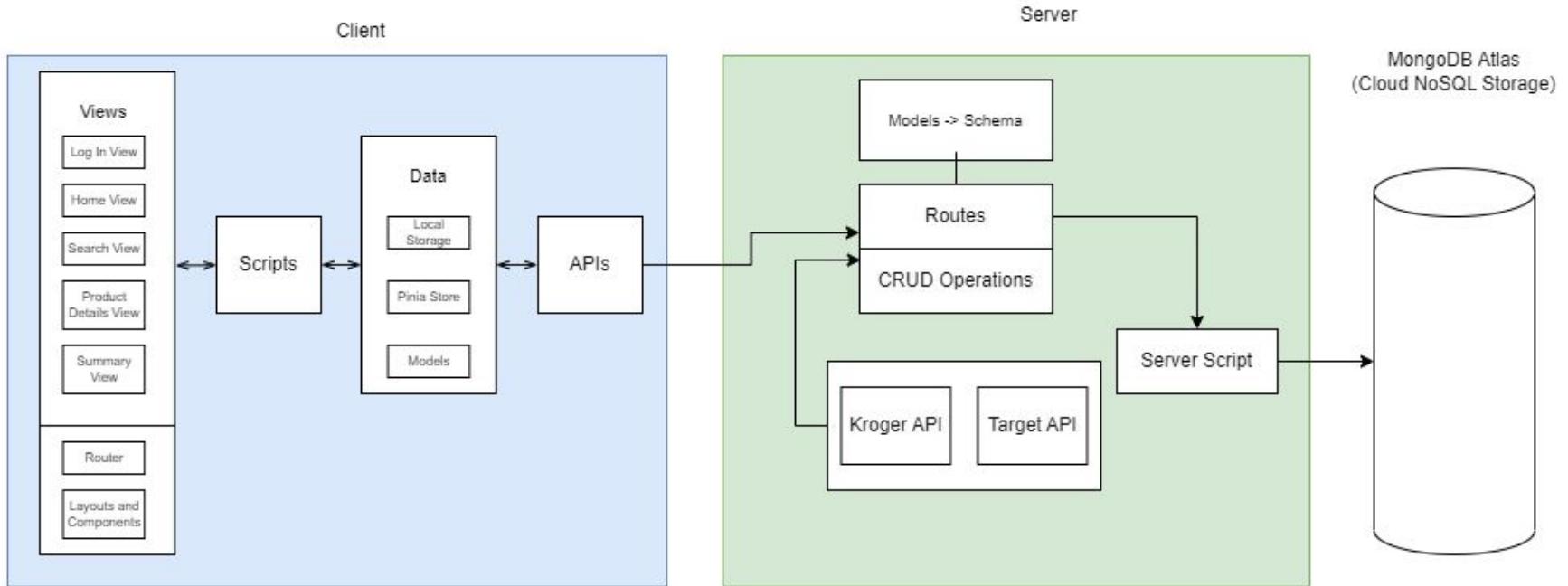
Technical Choices

- MongoDB Atlas
- MEVN Stack
- Client/Server

Other Tools

- GitLab
- VS Code
- Jira

Architecture





DEMO

Aparna G

Aparna G

Deepti Suresh

Deepti Suresh

Ryan Maxey

Ryan Maxey



Pallavi Sisodiya

Kavya Sundaram

Kavya Sundaram



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Overcoming Challenges

- Gaining access to APIs
 - Some APIs were only available to businesses
 - Walmart, Walgreens, Food Lion, CVS
 - We decided to use Kroger and Target APIs
- Limitations with Target API
 - Limited requests per free account
 - Made it difficult to populate the DB
- Challenges with formatting API data for our DB
 - Kroger and Target APIs offer different information with different structure
 - We had to choose common attributes to store
- Kroger stored product UPC differently
 - Required code for conversion



Thank You!