SpIcY VaNillA - David Chen, Jing Yi Feng, Matthew Yee, Jeremy Kwok

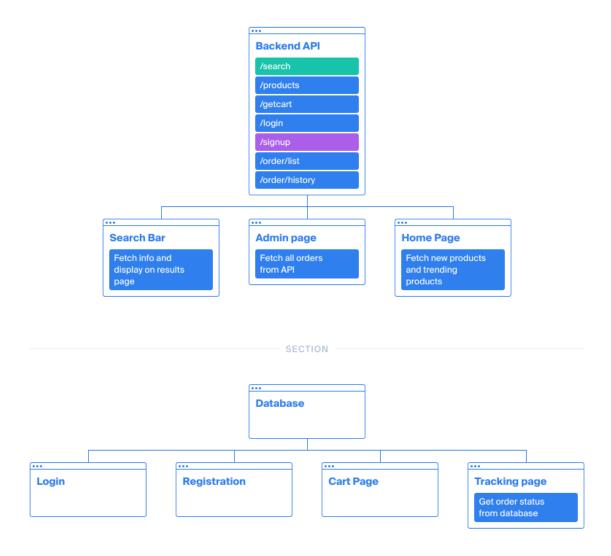
SoftDev

2022-12-02

Target Ship Date: 12/20/22

### Components

Map



# Backend Design:

- 1. /products Procure a Bestbuy API key and use it to get a list of items for the front page
- 2./login login for a user

- 3. /signup signup for a user
- 4. /getcart return items in cart
- 5. /order/list return a list of all orders currently in your shopping cart
- 6./order/history return a list of all old orders and their info
  - a. /orders/<id> return a specific order by id, provided session OR email and order ID
- 7. /search?q=<QUERY> return products that match said
  query
- 8. /ip return information about request IP
- 9./email send email/newsletters to users on the list
   (only authorized admins)

#### Frontend:

- 1. Login/Registration Page
  - a. Allows users to login/create an account
- 2. Landing page
  - a. Allows users to browse items and add them to their cart
  - b. Use Bestbuy page for inspiration
  - c. Allows users to browse through broad categories of items in addition to searching for specific ones.
- 3. Help/Contact Page
  - a. Allows users to contact a staff member (fake)
- 4. Admin page
  - a. Button on navbar, only visible/accessible to admins, allows them to view the status of any user's order and send newsletters to users.
- 5. Shopping Cart Page
  - a. Lists all the items the user has in their cart at the moment
  - b. Retrieves current cart items from backend database

- c. Offers an option to check out
  - Displays dummy checkout page with 4242 42424242 4242 as a test credit card number
- 6. Tracking page
  - a. Allows users to track the status of their past orders

#### Database:

- 1. Table for tracking user login info
- 2. Table for users, orders, and shopping cart contents (users in both tables should preferably be linked)
- 3. Tables for items (sorted by category) this could provide some sort of caching instead of hitting the Bestbuy API everytime we request

#### API Used:

- BestBuy API
- Radar API a more flexible alternative to Google Maps API with up to 100,000 free requests per month and offers REST API
- IP location API used in conjunction with Radar API
- Mailchimp API used to send confirmation emails and or newsletters

### Why Bootstrap:

- Bootstrap looks nicer and is more intuitive to use than Foundation
- Use builtin cards, buttons, navbar, carousel, etc

# Organization:

- 3 Tables
  - Users Table

Matthew	testingtesting123
Duck	BreadIsGood

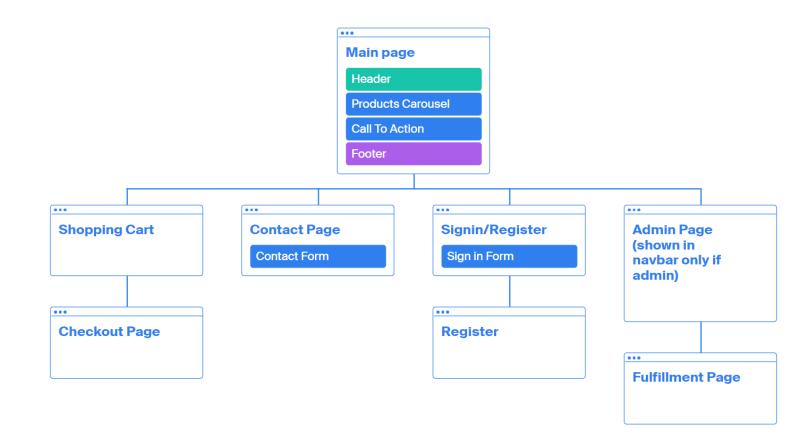
# - Order History Table

Username	Shopping Cart Contents	Order History (IDs)
Matthew	<pre>[item_ID1], [item_ID2], [item_ID3]</pre>	[Order1], [Order2]
Duck	[item_ID1]	[Order3]

# - Orders

Order ID	Product Name(s)	SKU (Produc t Identif ier)	Order Date	Price (Total)	Status (Unship ped/Shi ppd)
0001	Water, Knife	itemID1 itemID2	12/5/22	\$17.86	Shipped

Sitemap



SECTION

404 error

### **Assignments:**

- P1M David Backend API Implementation
  - Flask (serving pages, redirection, and safety checks)
  - General assistance with all backend-related tasks
- Matthew Database Engineer
  - Storing login information
  - Storing orders and shopping cart items

- Retrieval of data
- Jing Bootstrap Engineer
  - Site Navigation
  - Site formatting
  - Collecting user input
- Jeremy API Linkage
  - Pulling and displaying/implementing data from backend

## To Do List (Bold if completed)

- 1. Login/Logout Functionality [<1 day]</pre>
- 2. Set up history and order databases [<1 day]
- 3. Create a homepage (all pages will be linked here) [1 day]
- 4. Display Product Details (start with name, image and price)
  [2 days]
- Create shopping cart mechanism [1 day]
- 6. Create a mock checkout flow [<2 days total]
  - a. Confirm shipping location with Radar API [<1 day]
  - b. Add order to databases [<1 day]</pre>
  - c. Send confirmation email with order details to user [<1
     day]</pre>
- 7. View past orders page [<1 day]
- Search functionality [1 day]
- 9. Sort functionality [1 day]
- 10. Categorize items [<1 day]</pre>
- 11. Admin management portal [1 day]