

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

SoftDev

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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
 - i. Displays dummy checkout page with 4242 4242 4242 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

Username	Hashed Password
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Matthew	testingtesting123
Duck	BreadIsGood

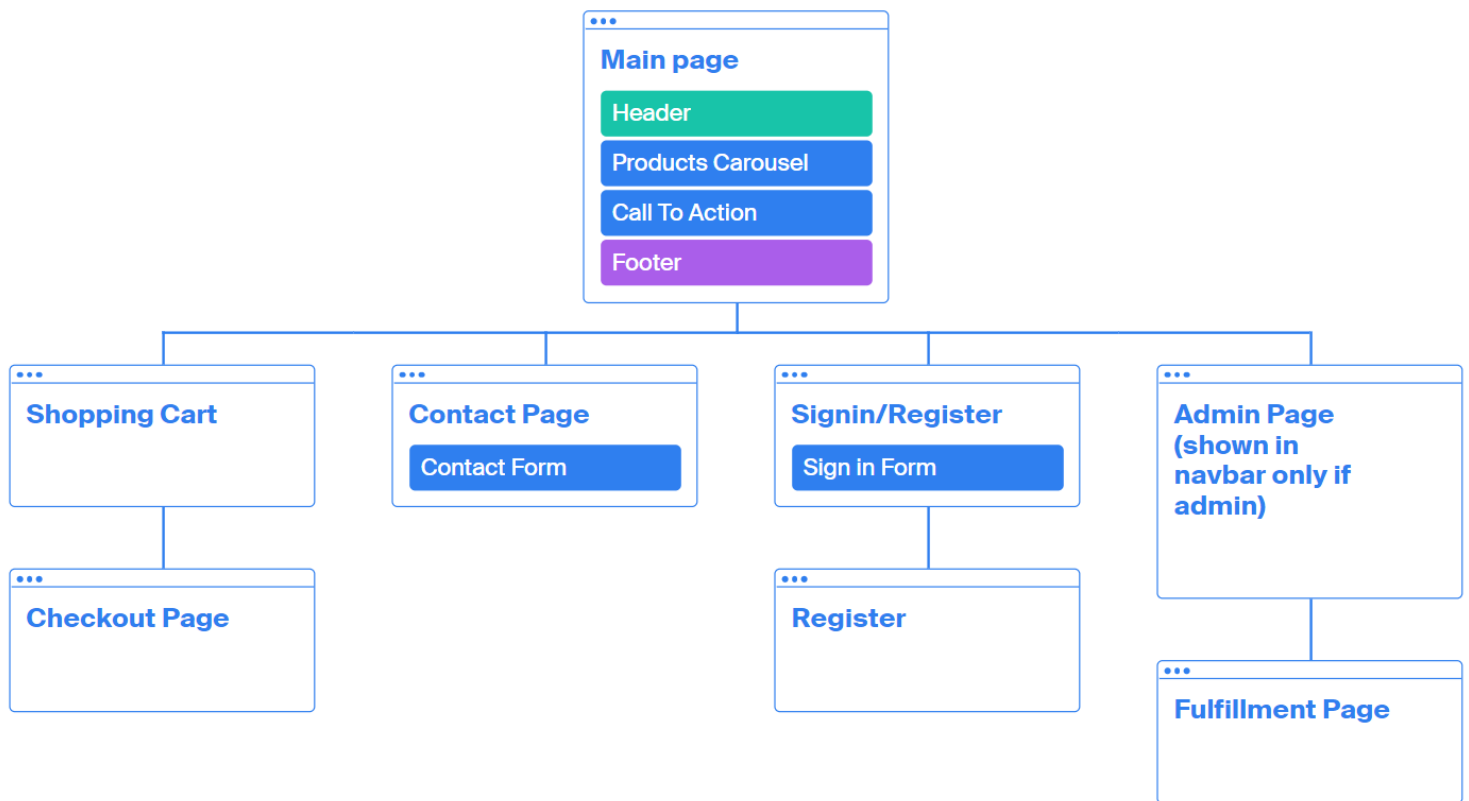
- Order History Table

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

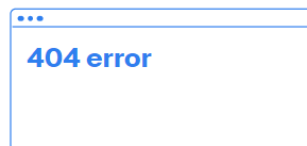
- Orders

Order ID	Product Name(s)	SKU (Product Identifier)	Order Date	Price (Total)	Status (Unshipped/Shipped)
0001	Water, Knife	itemID1 itemID2	12/5/22	\$17.86	Shipped

Sitemap



SECTION



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