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SoftDev

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Target Ship Date: 12/20/22

Components

Backend Design:

- /products Procure a Bestbuy API key and use it to qet 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:

- 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

Username	Hashed Password
Matthew	testingtesting123
Duck	BreadIsGood

- Order History Table

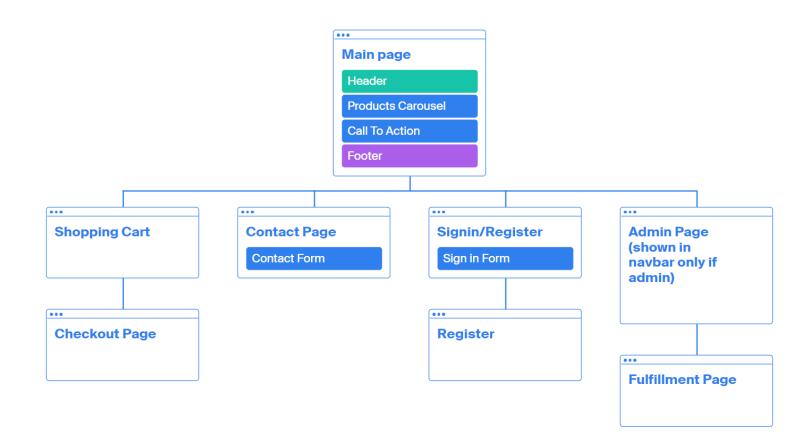
Username	Shopping Cart Contents	Order History (IDs)
Matthew	<pre>[item_ID1], [item_ID2], [item_ID3]</pre>	[Order1], [Order2]
Duck	[item_ID1]	[Order3]

- Orders

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

Knife itemID2		
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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