

# BARCODE SCANNER APP





# MEET THE TEAM



JON

ISAAC

ELLIE

SAMUEL

JOHN C



# PURPOSE OF APPLICATION

- The average American throws away around \$2000 of edible food every year because of spoilage. As a nation it is estimated around 408 billion USD in groceries is thrown away every year. To combat the insanely high food waste problem in the U.S., we will develop an app that keeps track of all food items you bring into your home and suggest recipes based on what you have available, what will expire soon, and what your preferences are.



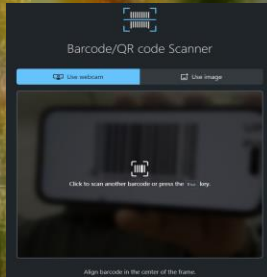


# DUTIES AND RESPONSIBILITIES

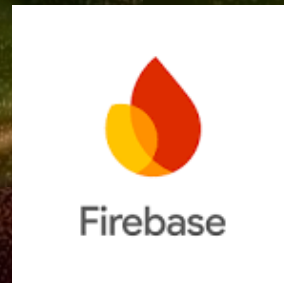
- **Jon:** Server-Side developer. Responsible for the server and the connection to the two APIs the project uses
- **Samuel:** I work closely with Jon on the backend of the project, will be responsible for fixing the API and ensuring the project runs smoothly.
- **Isaac:** Front End and error handling. I worked on the front end to create a time counter for our app, which tracks the time from when the food is purchased until it expires.
- **Ellie:** Website design - Worked on the initial landing page and additional pages
- **John C:** Design and Test - I worked on presentation design. I also worked on creating test cases and implementation of testing.



# HOW ITS DONE



Barcode  
Repository



Firestore  
Database



Track  
Expiration




Spoonacular  
Meal Database





## Barcode/QR code Scanner

 Use webcam

 Use image



Click to scan another barcode or press the **Esc** key.

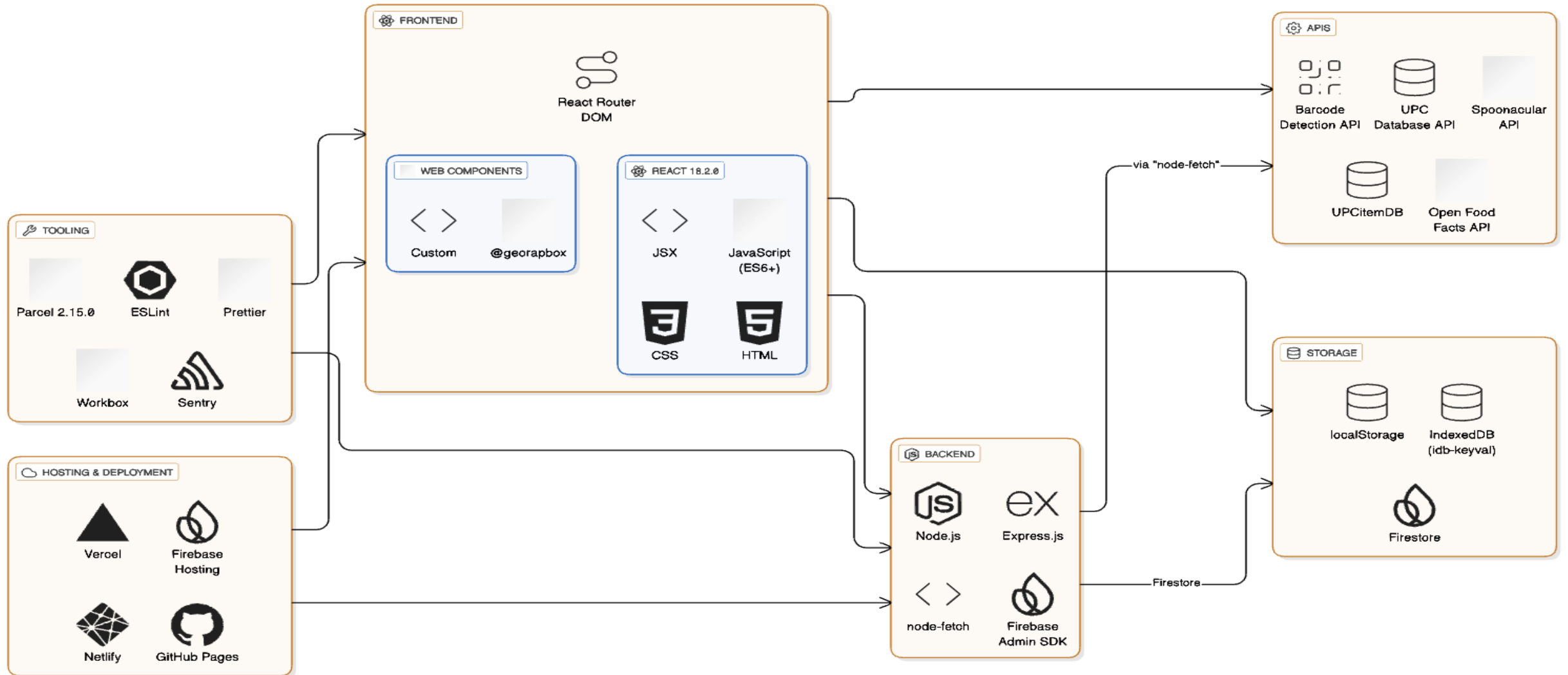
# BARCODE REPOSITORY

# WHAT OUR CORE TECHNOLOGIES DO

Technology	Role in the Project	Category
React.	Builds the <b>interactive and component-based user interface</b>	Frontend Framework
Firebase	Handles <b>User Accounts (Auth)</b> and stores <b>scan data (Firestore)</b>	Backend/Cloud Service
Barcode Detection API	<b>Scans barcodes</b> directly from the device's camera or images	Browser API
UPC Database API	<b>Looks up product details</b> (name, brand) from a scanned barcode	External API
Spoonacular API	Finds <b>recipes and nutritional information</b>	External API
Node.js/Express	Runs the server-side code and creates <b>API proxy servers</b>	Backend Runtime/Framework
Parcel	<b>Bundles and optimizes</b> all code (JS, CSS, assets) for deployment	Build Tool
Service Workers	Enables <b>offline functionality</b> and resource caching	PWA Feature



# FULL-STACK JAVASCRIPT PWA TECHNOLOGY STACK







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# THE DEMONSTRATION



**THANK YOU**

