



Atlanta Food System

Empowering Through Efficient Food Redistribution

Sponsor

Mr. Marbry

Driving Question

How can we reduce the issue of **food insecurity** in the **metro Atlanta** area by efficiently connecting food surpluses to **communities in need**?

Proposed Solution

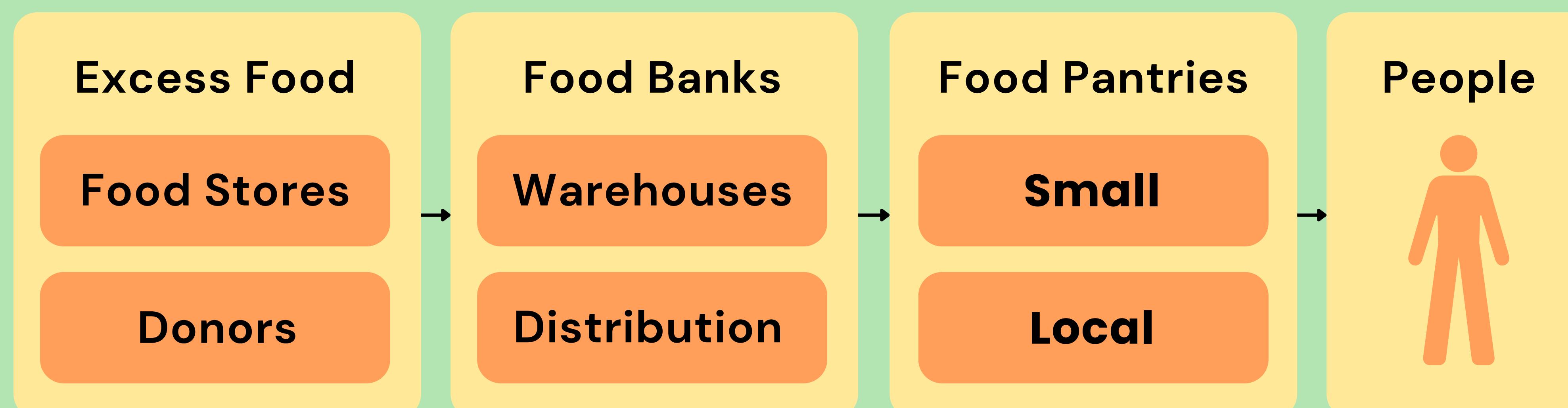
To combat **food insecurity** in metro Atlanta, we propose a digital platform that **improves coordination** between food donors, pantries, and underserved communities. We tackle this by **streamlining surplus food redistribution**.

The Core Issue

More than enough food is produced to make sure **no one goes hungry**. But even in Georgia alone, **1 in 8 are food insecure**. Despite this, millions of tons go to landfills because the **systems** in place to distribute that food are **inefficient**.



Redistribution of Food Supply



The redistribution of food supply depends on a **coordinated chain**—from excess food at stores and donors, to warehouses and distribution centers at food banks, to small, local food pantries, and finally to people in need. The more **efficiently** each link communicates and operates, the **faster food can move** through the system—ensuring that **more perishable goods reach people** before spoiling and reducing overall food waste.

User Experience

We used the ReactJS frontend library and SCSS for styling.

Gallery

The gallery view offers users an **intuitive and visually engaging** experience for browsing available food donations from a **particular food bank**. The system dynamically retrieves food item data via a **HTTP GET request**, including image URLs stored in **public Supabase buckets**. These images are seamlessly integrated into the interface, ensuring quick and reliable access. The layout employs the experimental **CSS masonry** feature, allowing for a responsive, Pinterest-style grid that adapts to various screen sizes and image dimensions.

Tabular View

Utilizing Material UI's datatable, we offer advanced functionalities such as column-based **filtering**, multi-criteria **sorting**, global **search**, and data **export** options. This structured layout facilitates **efficient navigation and analysis**, enabling users to quickly locate and **organize information** without the need for visual elements like images. The design prioritizes performance and clarity, making it particularly effective for **administrative tasks**, inventory audits, and large-scale data management.

Next Steps

Accounts & Auth



We envision a system where banks and people view different pages based on their permission.

Delivery



We plan on integrating an algorithm for the most effective path for delivery.

Outreach



After, we plan to partner with local stores and charities to actualize our solution.

Tools



Credits

Sreyas S.
Brian N.
Arjun N.

Om S.
Aarushi D.
Medhya S.

Rohit S.
Mary T.
Ahmed S.

Contact

