



Food Oasis

For Everyone

Zi Li Pan
Justin Heyer
Lucy Sileo
Simran Zaveri

Purpose

- In the United States in 2021:
 - 33.8 million people lived in food-insecure households (ERS, 2022)
 - 5.0 million children lived in households with very low food security (ERS, 2022)

While food waste is estimated at between 30–40% of the food supply (FDA)...

Goal

- Make food readily available for those in need
- Provide an easy way for people to give away excess food
- Give buyers easy access and knowledge to nearby produce that would otherwise go to waste

Functional Requirements

- System shall allow sellers to login their account with a email/username and password
- System shall allow users to enter types of food into the search bar
- System must let seller enter new food if need be
- System makes sure to return location for buyer and seller
- System shall allow users to have displays of types of food

Non-Functional Requirements

- System should provide a user interface that is easy to navigate for first-time users and is visually appealing
- Response time shouldn't take long to find sellers (within 3 sec)
- System should function on all popular browsers and mobile devices
- System only allows users to create account with strong enough password (≥ 6 characters)
- System should support 1000 simultaneous users



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Demonstration

Achievements

- What we achieved
 - Buyer and seller sides for giving and receiving food
 - Implemented the map API using mapbox
 - Letting the buyer look around their location to find if any food sources available
 - Allow sellers to choose the food types and add location for their Oasis

What we'd do with More Time

- Figure out our issues with connecting Firebase
 - With this, adding the actual creation and deletion of Oasis'
- Data scrape information on food banks across America and upload this to our database
- Changing the system so that you do not get an Oasis' exact location as this is possibly a security issue for our sellers

Team Experience

Works Cited

- Economic Research Service - U.S. DEPARTMENT OF AGRICULTURE. (2022, October 17). *Food Security Status of U.S. Households in 2021*. Key Statistics & Graphics. Retrieved November 29, 2022, from <https://www.ers.usda.gov/topics/food-nutrition-assistance/food-security-in-the-u-s/key-statistics-graphics/#:~:text=In%202021%3A,with%20adults%2C%20were%20food%20insecure.>
- FDA. (n.d.). *Food Loss and Waste*. U.S. Food and Drug Administration. Retrieved November 30, 2022, from <https://www.fda.gov/food/consumers/food-loss-and-waste>

Thank you for your time