Reducing Wastage of Food

Students of
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Abstract..

1.In a world where food is continuously wasted, we aim to donate food instead of waste it.

2.So that we decide to create an app to reduce wastage of food

3.Our app makes donating or receiving food easy by a few steps.

4.Our app connects individuals, restaurants, and grocery stores with surplus food to local charities and people in need.

5.Our app helps people who are in need.

Objectives and Outcomes of the project

1.Objectives..

1 . **Food Redistribution**: Facilitate the collection of surplus food from restaurants, grocery stores, and households, and redistribute it to shelters, food banks, and people in need.

2 . **Raising Awareness:** Educate users about the importance of reducing food wastage and the impact of food insecurity. Share tips and information on how to minimize food waste at home

3 . **User Engagement :** Encourage individuals and businesses to regularly donate surplus food

4. **Community Building:** Create a platform where donors, volunteers, and recipients can connect, share their experiences, and support each other in the mission to reduce food wastage.

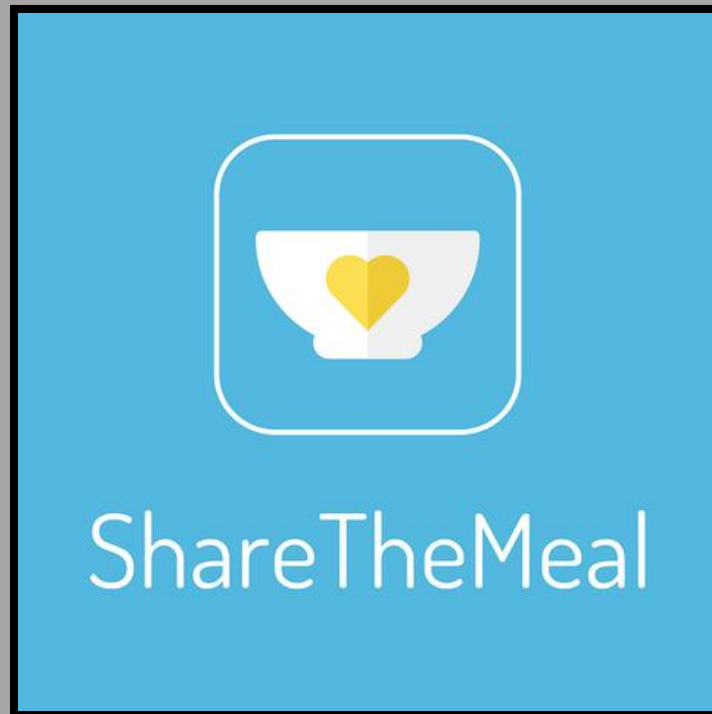5. **Tracking and Reporting:** Offer tools for tracking donations, monitoring the impact of the app

2.Outcomes..

1. Reducing food waste minimizes the environmental impact by redirecting surplus food to those in need instead of landfills.

2. The app raises awareness about food waste and hunger issues, encouraging more people to participate in food donation efforts.

3. Measurable decrease in the amount of food waste generated by participating donors.

4. Enhanced collaboration and support within communities through shared food donation efforts.

5. Higher levels of volunteer involvement in food donation and distribution activities**.**

6. Greater understanding and advocacy for reducing food waste and addressing food insecurity.

Differences between already existing app and our app..

Already Existing app details...

ShareTheMeal

1. Download and Sign Up: First, download the app from your app store and create an account.

2. Choose a Goal: Browse through various fundraising goals, such as providing emergency aid in conflict zones or supporting school feeding programs.

3. Donate: With just a few taps, you can donate as little as $0.80, which is enough to provide a meal for someone in need.

4. Track Your Impact: The app provides transparency by showing you exactly where your donation goes and who it helps .

5. Join Challenges: You can create or join challenges to fight hunger together with your friends and community

Comparison with already existing app

Our App	Already Existing app
- User friendly. - Free of cost. - No need for a delivery partner. - Single person can also donate food	- User Friendly. - Costs for food. - Need a delivery partner. - A group of people come together and donate food.

Technologies involved in the project

1.PROJECT SPACE..

ANDROID STUDIO :provides tools to create Android apps.

XCODE : to create iOS.

2.PROGRAMMING LANGUAGES:

KOTLIN MULTIPLATFORM : is to develop both Android and iOS apps.

3.USER INTERFACE DESIGN (UI):

XML :is a markup language generally used in creating Android apps.

SWIFTUI : is a toolkit used in the creation of iOS

4.BACKEND DEVELOPMENT:

KTOR : is a framework for creating a backend.

FIREBASE AUTHENTICATION : provides backend services. It stores Emails/passwords, phone numbers, and Details

5.LOCATION SERVICES:

Google Maps API : is provided by Google. So, it can be used for Android.

MapKit :is provided by Apple. So, it can be used for iOS

Requirements..

1. User Registration: Users, including donors (restaurants, grocery stores, individuals) and recipients (charities, food banks, individuals in need), sign up and create profiles on the app.

2. Listing Donations: Donors list surplus or leftover food by providing details such as quantity, type of food, and pickup location.

3. Browse & Request: Recipients can browse available food donations in their area, filter by preference, and request specific items.

4. Matching: The app matches donations with recipients based on type of food, and availability.

5. Pick-Up & Delivery: Once a match is made, recipients can arrange for pick-up or delivery through the app, ensuring the food is quickly and safely distributed.

6. Confirmation: After the donation is received, both parties confirm the transaction, ensuring transparency and accountability.

7. Tracking & Impact: The app tracks donations, provides data on food saved from waste, and shows users the impact.

Plan of implementation / Methodology..

Define Objectives: Clearly outline the goals and objectives of the app, such as reducing food wastage

Market Research: Conduct research to understand the current landscape, identify potential users, and assess the needs of both donors and recipients.

Stakeholder Engagement: Engage with potential stakeholders, including restaurants, grocery stores, non-profit organizations, and community members, to gather input and build partnerships.

User Experience (UX) Design: Create wireframes and mockups to design an intuitive and user-friendly interface.

Unit Testing: Test individual components to ensure they function correctly.

Launch Preparation: Prepare for the app launch by setting up hosting, cloud services, and ensuring scalability.

Societal impact of the project..

In conclusion, a food donation app represents a practical and impactful solution to address food waste and hunger.

By facilitating easy connections between donors and recipients, the app ensures that surplus food is redirected to those in need, benefiting both the community and the environment.

Through streamlined processes, transparency, and real-time tracking, the app enhances the efficiency of food distribution and fosters a culture of generosity and sustainability.

Basic Prototype..

WasteNot

Welcome to
WasteNot

GET STARTED

Create New Account

Full Name

Phone Number

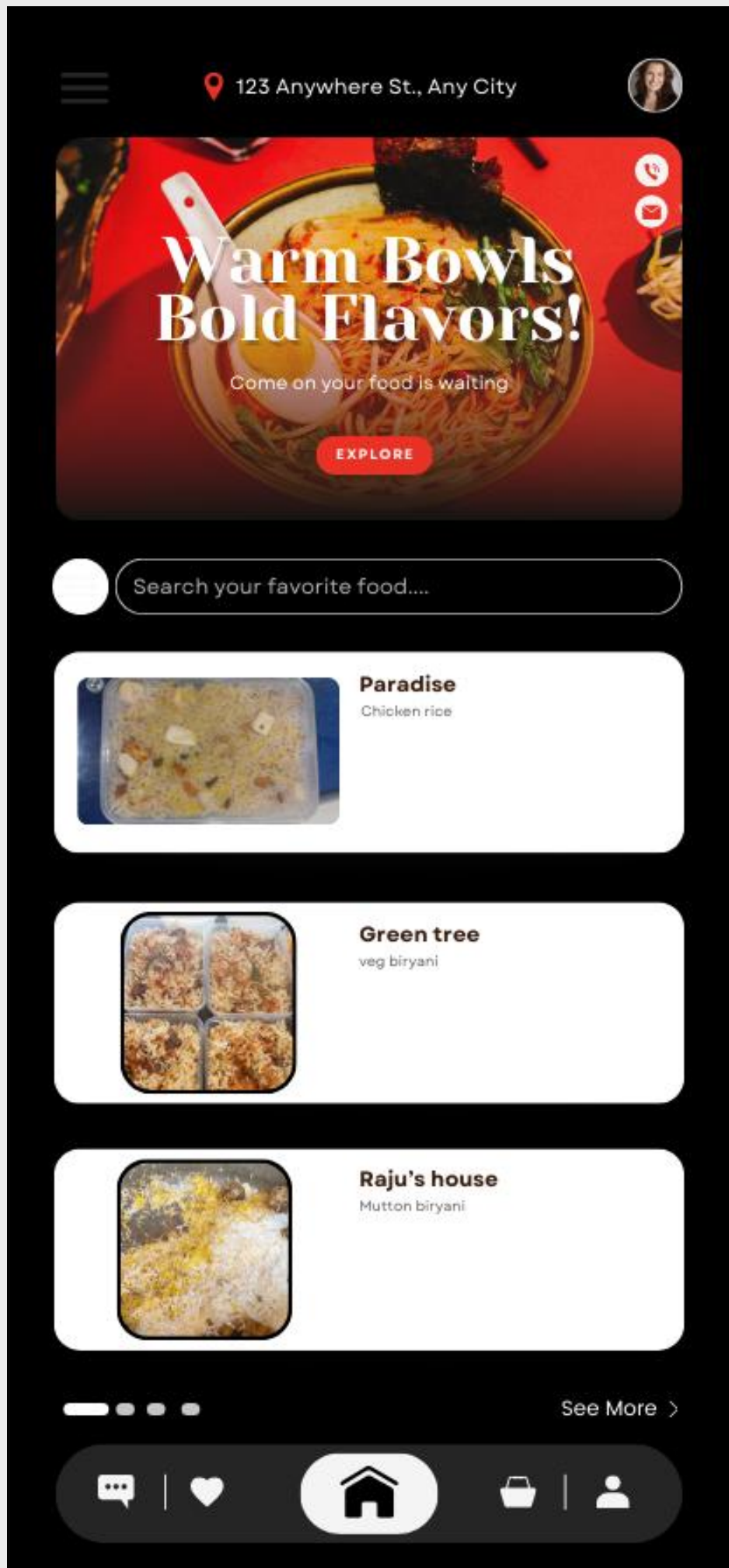Email Address

Password

SIGN UP

Already Have a Account? Sign In

Don't waste food, Donate Food.

Thank you

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