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An Initiative to Combat Hunger
and Reduce Food Wastage

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Food Donation App for Sustainable Living

ABSTRACT

Developing a **Food Donation App for Sustainable Living** to connect donors with food banks and receivers, addressing food wastage and hunger.

- Donors can donate surplus food, and receivers locate nearby food banks via geolocation services like OpenStreetMap.
- Built with Android Studio and Appwrite for secure authentication, storage, and database management.
- Reduces food waste, promotes sustainability, and includes features like admin analytics and future expansion to organizations and restaurants.

INTRODUCTION

Global Issues:

- 931 million tons of food wasted annually worldwide.
- Millions of people facing hunger daily.

Local Challenges:

- Lack of accessible platforms for food donation.
- Inefficient food redistribution mechanisms.



EXISTING SOLUTIONS

Existing Solutions:

- Various regional apps addressing food waste.
- Limitations: Regional focus, lack of scalability, or advanced features.

Innovation Gap:

- Integration of geolocation, real-time inventory management, and broader accessibility.

PROPOSED SYSTEM

System Overview:

- Donors register and donate surplus food.
- Receivers locate food banks via app navigation.
- Admins manage food banks and analyze data.

Technology Integration:

- Appwrite: Authentication, database, and storage.
- OpenStreetMap: Accurate navigation and geolocation.

WORKFLOW

User Registration:

- Secure sign-up for donors.

Food Donation:

- Donors specify food type and quantity.

Geolocation Services:

- Receivers find the nearest food banks.

Inventory Management:

- Food banks update stock in real-time.

Admin Module:

- Analytics for optimization and decision-making.

TECHNICAL STACK

1. **Front End:** Android Studio for cross-platform development.
2. **Backend Services:** Appwrite for authentication and database management.
3. **Geolocation:** OpenStreetMap integration.

FUTURE SCOPE

Scalability:

- Expansion to include restaurants, organizations, and other contributors.

Accessibility Enhancements:

- Physical signage at food banks for receivers without devices.

Features in Development:

- AI-based food quality checks.
- Integration with local governments and NGOs.

OUTCOME

Expected Impact

- **Social:**
 - Mitigating hunger and food insecurity.
- **Environmental:**
 - Reducing food waste and promoting sustainability.
- **Economic:**
 - Encouraging a circular economy in food redistribution.

OUTCOME



Thank You

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