IoT-Based Leftover Food Donation Solution

True Engineer – Sandeep Prajapati

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"WEALTH IS THE ABILITY TO FULLY EXPERIENCE LIFE."

-Henry David Thoreau

INTRODUCTION:

Brief overview of the project :

Developed an IoT-based solution to donate leftover food efficiently and effectively.

PORTFOLIO BUILDUP

Step 1 ●
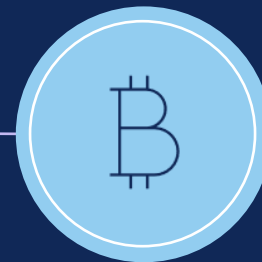
Choose a cryptocurrency exchange

Step 2 ●

Purchase preferred coins & create "wallet"

Step 3 ●

Research investment and trading options

Step 4 ●

Stake preferred coins in chosen company

Step 5 ●

Set exponential growth goals

Crypto: investing & trading

HOW IT WORKS

Step 1: Food Detection

• Place leftover food in a designated box with an ESP8266 microcontroller and ultrasonic sensor.

• If food is detected, data is sent to the server.

HOW IT WORKS (CONT.)

Step 2: Notification System

• The server informs food box indicators with LED lights.

• "If food is available within a 2 km range, the LED turns on; otherwise, it stays off.

• Place leftover food in a designated box with an ESP8266 microcontroller and ultrasonic sensor.

•"If food is detected, data is sent to the server."

HOW IT WORKS (CONT.)

Step 5: Food Collection

• Once food is taken from a box, the LED light turns off, and the data is automatically removed from the website.

STORY BEHIND THE PROJECT

- Inspired by a documentary on the global food crisis, I decided to create a solution for better food management and distribution

- Approximately 800,000,000 people lack adequate food, and 300,000,000 are children kid

• Place leftover food in a designated box with an ESP8266 microcontroller and ultrasonic sensor.

•"If food is detected, data is sent to the server."

FEATURES OF THE WEBSITE

•Code Generation: Generate and paste a code for your food donation box.

•Location-Based Search: Search for available food within a 2 km range.

•User-Friendly Design: Easy and intuitive interface.

•Automated Records: Records generated and maintained by IoT devices.

•Embedded System Design: Integration of IoT and web technology for seamless operation.

FUTURE ASPIRATIONS

Feeding India

- A non-profit organization that provides meals to people in need across India, with a focus on reducing hunger and malnutrition among underserved communities.

Akshaya Patra Foundation

- A non-profit organization that provides mid-day meals to children studying in government schools and government-aided schools, with the aim of countering malnutrition and supporting the Right to Education.

CONCLUSION

- Continuously enhancing features like using loudspeakers instead of LED lights.

- Integrating AI models to predict the correct amount of food to cook for events.

- Committed to making a difference in food management and distribution.

THANK YOU

Sandeep Prajapati

6392424180sandeep@gmail.com

+916392424180

https://x.com/mr_mark_of_ind

https://www.linkedin.com/in/sandeep-prajapati-391604218/

https://github.com/sandeeep-prajapati/