

COURSE CODE: ENSI152

GROUP CODE: Y1-2024-25-[G286]

**Project Title: Food Donation Platform
– Food Door**

**Post Graduation in: Master of
Computer Applications**

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1. Abstract

Food Door is a socially impactful web platform designed to bridge the gap between food donors and underprivileged individuals. The platform enables individuals and restaurants to donate surplus food or money and allows volunteers to register and support food distribution activities. Using a full-stack web application framework and MongoDB for data management, the project focuses on streamlining donations, reducing food waste, and promoting community involvement. The project also opens pathways for future scalability including real-time tracking and mobile app integration.

2. Introduction

In today's world, food wastage is a major issue while many go hungry. Restaurants, households, and events often dispose of large amounts of edible food due to a lack of redistribution systems. Food Door addresses this issue by building a bridge between donors and the needy.

3. Literature Review

Existing donation systems lack centralization, digital records, and real-time features. Food Door leverages modern web technologies to overcome these gaps by integrating user-friendly forms, data storage, and future expansion features like tracking and alerts.

4. Problem Statement & Objectives

Problem: Daily wastage of food and lack of a centralized system to channel it to the needy.

Objectives:

- Create a donation and volunteer registration portal
- Support individual and restaurant donors
- Store submissions securely
- Prepare for future tracking and feedback features

5. Methodology

System Design includes modules for donors, restaurants, volunteers, and admins.

Frontend: HTML, CSS, JS

Backend: Node.js with Express (optional)

Database: MongoDB

Workflow: User input ? Validation ? Database entry ?
Admin/Volunteer action

6. Implementation

Home Page features a strong call-to-action and navigation.

Personal Donation: Name, age, contact, amount

Restaurant Donation: Business info, food list, money option

Volunteer Form: Personal details, file upload

Database stores all entries in respective collections.

7. Results and Discussion

Test cases confirmed that form data was successfully saved in MongoDB. Users found the interface clean and understandable. Volunteer submissions were received accurately, demonstrating platform reliability.

8. Conclusion and Future Work

Conclusion: Food Door provides a functional solution to address food waste and hunger.

Future Enhancements:

Mini Project Report

- Real-time tracking
- Mobile app
- Admin panel
- Notification system
- Beneficiary feedback

9. References

1. MongoDB Documentation
2. Node.js & Express Docs
3. HTML/CSS/JS W3Schools
4. Bootstrap Framework
5. MDN Web Docs