

MINI – PROJECT – I SYNOPSIS

***Food Management***

Department of CEA

# Institute of Engineering & Technology

SUBMITTED BY: -

Saloni Singh Sec J 2115000900

Surya Pratap Sec-J 2115001022

Vedant Bajpai Sec- K 2115001105

Harsh Singh Sec- I 2115000448

SUBMITTED TO: -

# MR. Mohammad Aslam

# (Technical Trainer)

# Department: T&D

**DECLARATION**

We hereby declare that the work which is being presented in the project synopsis “**FOOD MANAGEMENT**” in partial fulfilment of the requirement for project is an authentic record of our work carried under the supervision of **MR. Mohammad Aslam , GLA University, Mathura** during session **2023-24**.

Sign:

|  |  |  |
| --- | --- | --- |
| **Name of the**  **candidate** | **URN** | **Sign** |
| Saloni Singh | 2115000900 |  |
| Surya Pratap | 2115001022 |  |
| Vedant Bajpai | 2115001105 |  |
| Harsh Singh | 2115000448 |  |

# ACKNOWLEDGEMENT

It gives us a great sense of pleasure to present the synopsis of the B. Tech. Mini Project undertaken during III Year. This project is going to be an acknowledgement for the inspiration, drive and technical efforts which will becontributed to it by its contributors. We would like to express our gratitude to **MR. Mohammad Aslam,** for his unwavering encouragement and support, which allowed us to develop this project to the fullest extent of our skills.

We would also like to thanks all the faculty members of the department of Computer Science & Application for their kind guidance and cooperation.

# CONTENTS

1. Declaration
2. Acknowledgement
3. Introduction
4. Objective
5. Scope of the project
6. Methodology
7. Proposed System and Features
8. Implementation plan
9. Team Members
10. Resources Required
11. References
12. Expected Outcomes
13. Project Supervisor
14. Conclusion

## OBJECTIVE

The objectives of our project “Food Management” are as follows:

1)Reduction of food generation 2)Diversion 3) Awarness 4) Efficiency 4)Recovery 5)Environmental Imapct

## SCOPE

The scope of a food waste management project can vary widely based on its goals, scale, and resources. Here are some aspects that define the scope of such a project:

1. Scale: Determine the scale of the project, whether it's focused on a household, restaurant, community, city, or even a national level.
2. Stakeholders: Identify the key stakeholders involved, such as households, businesses, local government, NGOs, and waste management services.
3. Target Waste Streams: Specify the types of food waste to be addressed, whether it's pre-consumer waste (e.g., food production, processing) or post-consumer waste (e.g., household or restaurant waste).
4. Strategies: Decide on the strategies to be employed, such as source reduction, composting, food rescue, and public awareness campaigns.
5. Infrastructure: Determine the necessary infrastructure and facilities required, like composting facilities, collection bins, and transportation.
6. Regulations: Understand and comply with local, state, and national regulations related to food waste management.
7. Education and Outreach: Plan for educational programs and outreach efforts to engage and inform the community or stakeholders.
8. Data Collection: Establish a system for monitoring and reporting food waste generation, diversion, and progress toward objectives.
9. Budget and Resources: Define the project's budget, funding sources, and available resources for implementation.
10. Timeline: Set a timeline for project implementation, including short-term and long-term goals.
11. Partnerships: Consider collaborating with organizations, businesses, and government agencies to enhance the project's impact.

## METHODOLOGY

The methods, tools, and technologies we plan to use in our project are as follows-

**HTML**: Hyper-Text-Markup-Language is used forstructuring web pages over the internet. HTML is the language in which most websites are written. HTML is used to create pages and make them functional.

**CSS**: Cascading-Style-Sheet is a styling language used to style and basically define how the content will appear on the website.

**JavaScript**: JavaScript is a scripting or programming language which is now used extensively to design modern web applications and website, it allows the developer to write application which modify themselves according to each user and its data, this made web applications much more accessible and suitable for many purposes.

**NodeJS:** Node.js is a cross-platform, open-source server environment that can run on Windows, Linux, and more. Node.js is a back-end JavaScript runtime environment, runs on theV8 JavaScript Engine, and executes JavaScript code outside a web browser.

**MYSQL:** MySQL Database is a client/server system that consists of a multithreaded SQL server that supports different back ends, several different client programs and libraries, administrative tools, and a wide range of application-programming interfaces (APIs). We also provide MySQL as an embedded multithreaded library that you can link into your application to get a smaller, faster, easier-to-manage standalone product.

**Geoloaction:** Geolocation is the identification of the real-world geographic location of an object. This identification is done by generating a set of geographic coordinates such a latitude and longitude through GPS and using the coordinates to determine a meaningful location. These objects could be an internet- connected computer, mobile phone, table or radar source.

**API:** API is the acronym for application programming interface — a software intermediary that allows two applications to talk to each other. APIs are an accessible way to extract and share data within and across organizations.APIs are all around us. Every time you use a rideshare app, send a mobile payment, or change the thermostat temperature from your phone, you’re using an API.

## PROPOSED SYSTEM AND FEATURES

* Restaurants/cafés will raise a request, in case of any leftover food they have.
* This request is sent to the NGO manager of that particular network. The NGO Manager then approves the request and assigns it to one of the NGO workers and forwards the request to the logistics manager.
* After receiving the request from the NGO, Logistics Manager then assigns it to one of the logistics worker.
* The logistics worker picks the leftover food from the restaurant and then delivers it to the NGO where the inventory is updated with leftover foods. The logistics worker also updates the delivery amount incurred and forwards it to the logistics manager.
* NGO worker can then distribute the food to the needy people while Logistics worker forwards the invoice generated to the NGO Manager.
* Logistics manager can keep a track of whether the NGO has made the payment of the delivery or not.
* NGO manager can also request for food from other regions if there is a shortage in the current network..

Expands the project's potential for use in different industries and applications.

### IMPLEMENTATION PLAN-

We aim to follow the following implementation plan**-**

* 1. Project Initiation
  2. Needs Assessment
  3. Planning and Design
  4. Content Development
  5. Development
  6. User Interface and Experience (UI/UX)

1. User Engagement and Interaction
2. Mobile Optimization
3. Deployment and Report Generation
4. Final Submission

### TEAM MEMBERS-

1. **Saloni Singh - FRONTEND DEVELOPER**

### Surya Pratap - BACKEND DEVELOPER

1. **Vedant Bajpai - BACKEND DEVELOPER**

### Harsh Singh – FRONTEND DEVELOPER

**RESOURCES REQUIRED**

#### SOFTWARE REQ:

* + - **Languages Used**: HTML, CSS , Javascript., NodeJS.
    - **Database:** MYSQL
    - **Tools:** VS Code,Chrome.
    - **Version Control:** Github

#### HARDWARE REQ:

* + - **Processor:** i3 or above.
    - **Operating System:** Windows
    - **Hardware Device:** Computer/Mobile

## REFERENCES

#### Books:

a. Black Book HTML5, CSS, JS, NODEJS

#### Websites:

1. MDN Web Docs
2. W3Schools
3. GeeksForGeeks
4. CSSTricks

**EXPECTED OUTCOMES**

The outcome of a Food Waste Management project would depend on its specific goals and scope. Generally, the desired outcomes include reducing food waste, diverting organic waste from landfills, promoting sustainable practices, and potentially benefiting the community through food donation or energy generation from waste. The success of the project can be measured by metrics like the amount of food waste diverted, environmental impact reduction, cost savings, and community engagement.

## PROJECT SUPERVISOR

MR. Mohd Aslam

Technical Trainer

T&D Department

( GLA University)

## CONCLUSION

In conclusion, As mentioned above in the description there is a lot of food wastage that occurs daily at restaurants and cafes. Instead of throwing away the same as trash (which usually is the scenario), it can be used to feed the homeless.

Also, since the pickup is arranged for by the enterprise, the restaurants/cafes need not worry about it.

Benefiters will be both the restaurants/cafés (reducing the carbon footprint and wastage), and the needy.

.