FOODESY -Takeaway Ordering System

Submitted in partial fulfillment of the requirements for the degree of

Bachelor of Technology

in

CSE CORE

by

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DECLARATION

I hereby declare that the thesis entitled "FOODESY - Takeaway Ordering System" submitted by me, for the award of the degree of *Bachelor of Technology in CSE CORE* to VIT is a record of bonafide work carried out by me under the supervision of Dr. Mythili T.

I further declare that the work reported in this thesis has not been submitted and will not be submitted, either in part or in full, for the award of any other degree or diploma in this institute or any other institute or university.

Place : Vellore Karan Jain, Disha Goyal,

Date: 15.11.2022 Shivakumar

Signature of the Candidate

CERTIFICATE

This is to certify that the thesis entitled "FOODESY - Takeaway Ordering System"

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the University and in my opinion meets the necessary standards for submission.

Place: Vellore

Date: 15-11-2022

Signature of the guide

Dr. Mythili T

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We would like to acknowledge that this project was completed entirely by us and not by someone else.

Executive Summary

FoodEsy is a takeaway ordering website for local restaurants that will allow its users to place a takeaway order and collect it whenever they are free without the need of standing in long queues. This project can help streamline the food ordering process and increase efficiency which factors for better customer service. This also makes it easier for the restaurant to manage and track orders and reduce the potential of delays.

It escpecially helps businesses with multiple outlets to track and manage their accounts.

Today for businesses to increase their outputs and achieve scalability, they require an application that caters to their customers needs from takeaways, order tracking to customer queries.

The platform consists of two components namely the Takeaway Portal and the Admin Portal.

- Takeaway Portal provides users the following functionalities:
 - Food Catalog/Menu To make users of the business' products and services.
 - Cart Allows users to aggregate and order products they want in one go.
 - Checkout It allows users to place an order in advance and collect at a specific time.
 - o Order Status Allows users to track status of their orders.
 - Messages Allows users to communicate with the restaurant regarding their orders and raise complaints or convey their appreciation.
- Admin Portal provides the following functionalities:
 - Menu Management Allows businesses to manage and update their menus and introduce new categories.
 - Order Management Allows businesses to view orders and update their status. It also helps the business to track their earnings.
 - Messages It allows the businesses to cater to their clients complaints and be aware of their suggestions.
 - Site Management It allows businesses to alter the contents of the website like address, name and contact details.

This portal can be updated to support other functionalities online payments, delivery services, delivery live tracking, food suggestions, customer reviews, etc.

	CONTENTS	Page
		No.
	Acknowledgement	i
	Executive Summary	ii
	Table of Contents	iii
	List of Figures	iv
	Abbreviations	v
1	INTRODUCTION	1
	1.1 Objective	1
	1.2 Motivation	1
	1.3 Background	1
2	PROJECT DESCRIPTION AND GOALS	2
3	TECHNICAL SPECIFICATION	3
4	DESIGN APPROACH AND DETAILS (as applicable)	4
	4.1 Design Approach / Materials & Methods	4
	4.2 Codes and Standards	5
5	SCHEDULE, TASKS AND MILESTONES	6
6	PROJECT DEMONSTRATION	7
	6.1 Takeaway Portal	7
	6.2 Admin Portal	13
7	RESULT & DISCUSSION	19
8	SUMMARY	21
9	REFERENCES	22

List of Figures

Figure No.	Title	Page No.
1	ER Diagram	4
2	Activity Chart	5
3	Timeline Chart	6
4	Gantt Chart	6
5.1	Home Page of Takeaway Portal	7
5.2	Signup Form	7
5.3	Login Form	8
5.4	Feedback Message	8
5.5	About Us Page	9
5.6	User Profile Page	10
5.7	Cart Page	10
5.8	Checkout form	11
5.9	Order Confirmation containing Order ID	11
5.10	Your Orders Page	11
5.11	Order Status Modal	12
5.12	Order Items Modal	12
5.13	Contact Us Page	13
6.1	Admin Login Page	13
6.2	Admin Dashboard	14
6.3	Manage Order Page	14
6.4	Order Status Update Form	15
6.5	Ordered Items Model	15
6.6	Manage Categories Page	16
6.7	Manage Menu Items Page	16
6.8	Manage Message Replies Page	17
6.9	Manage Users Page	17
6.10	Manage Site Details	18
7.1	Feedback Submission - 1	19
7.2	Feedback Submission - 2	19
7.3	Feedback Submission - 3	20

List of Abbreviations

ADMIN Administrator

CSS Cascading Style Sheets

ER Entity-Relation

HTML HyperText Markup Language

IEEE Institute of Electrical and Electronics Engineers

UI User Interface

1. INTRODUCTION

1.1. OBJECTIVE

- 1. To empower customers by removing the need to stand in long queues just to order and enjoy their favorite food items.
- 2. To expand the earnings of the local businesses and improve their customer service.
- 3. Making food service efficient and streamlined.
- 4. Increasing the productivity and output of a food business.

1.2. MOTIVATION

There are plenty of local businesses in the VIT, Vellore Campus which are not associated with an online food ordering website which increases businesses' output and efficiency. It also helps improve customer satisfaction and allows the businesses to manage orders more accurately.

Due to the lack of a food ordering system, the customers are forced to stand in long queues to place an order and further need to wait while their order is being prepared.

To counter this difficulty we decided to create FoodEsy - a takeaway ordering system for local restaurants.

1.3 BACKGROUND

The project was devised according to the user requirements mentioned during the requirement elicitation phase.

One of the key requirements was to comply with VIT guidelines which prohibits local businesses which operate within the campus to associate with online food delivery services. This was followed by restricting the platform to cater only takeaways. Online delivery functionality has been sidelined for future use.

Another requirement was live order tracking which has been implemented both on the customer and admin ends.

A customer feedback functionality was also implemented to ensure customer satisfaction.

2. PROJECT DESCRIPTION AND GOALS

FoodEsy is a takeaway ordering website for local restaurants that will allow its users to place a takeaway order and collect it whenever they are free without the need of standing in long queues.

The platform consists of two components namely the Takeaway Portal and the Admin Portal.

- Takeaway Portal provides users the following functionalities:
 - Food Catalog/Menu To make users of the business' products and services.
 - o <u>Cart</u> Allows users to aggregate and order products they want in one go.
 - <u>Checkout</u>- It allows users to place an order in advance and collect at a specific time.
 - o Order Status Allows users to track status of their orders.
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 - Order Management Allows businesses to view orders and update their status. It also helps the business to track their earnings.
 - Messages It allows the businesses to cater to their clients complaints and be aware of their suggestions.
 - <u>Site Management</u> It allows businesses to alter the contents of the website like address, name and contact details.

3. TECHNICAL SPECIFICATIONS

The following have been used to create FoodEsy:

- Front End
 - o HTML
 - o CSS
 - o Bootstrap
 - JavaScript
- Back End
 - o PHP
 - XAMPP (Apache Server)
- Database
 - o MySQL (hosted on remotemysql PaaS Service)
- Project Management
 - o Git Version Control
 - Balsamiq Wireframes
 - Wondershare EDraw Max
 - Heroku Deployment
 - o DrawSQL ERD Diagrams

4. DESIGN APPROACH AND DETAILS

4.1. Design Approach / Materials & Methods

The website was created by keeping the following factors in mind:

- 1. The user interface is designed to be user friendly.
- 2. The user interface is designed to be easy to navigate.
- 3. Responsive design compatible with small screen devices.
- 4. Attractive design, keeping the food in the forefront.
- 5. Contrasting color pallets to make the controls pop.
- 6. Proper Feedback and error messaging to easy navigation.
- 7. All design aspects were decided depending on the customer requirements.

ER Diagram

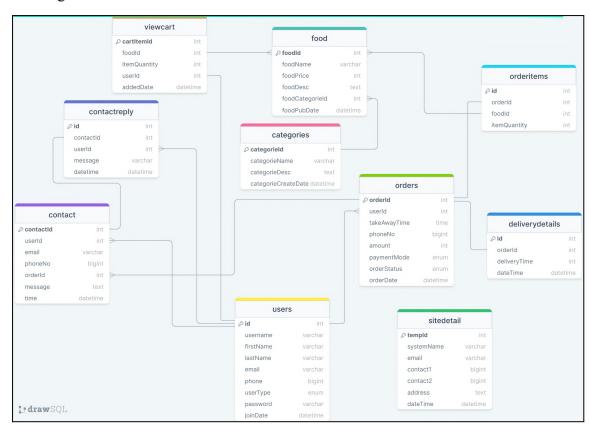


Figure 1. ER Diagram

Activity Diagram

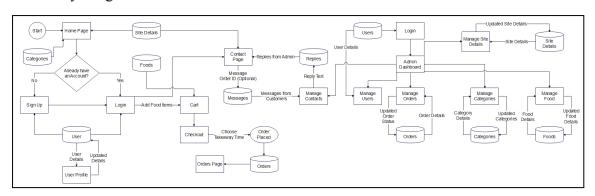


Figure 2. Activity Chart

4.2. Codes & Standards

Source Code: https://github.com/karanjain-ops/FoodEsy.git

Deployed Link for Takeaway Portal: https://foodesy-app.herokuapp.com/

Deployed Link for Admin Portal: https://foodesy-app.herokuapp.com/admin/

(Username: admin; Password: admin)

The following standards were followed during development phase:

- Logo on the Top left
- Contact in the Top Right
- Main Navigation Across the Top
- The Search Feature in the Header
- Social Media Icons in the Footer
- Responsive Design
- Same Design attributes being followed throughout the platform
- Coding Standards IEEE Standards
- Authentication through Credentials using Signup & Login forms
- Normalization of Databases

5. SCHEDULE, TASKS AND MILESTONES

Timeline Chart

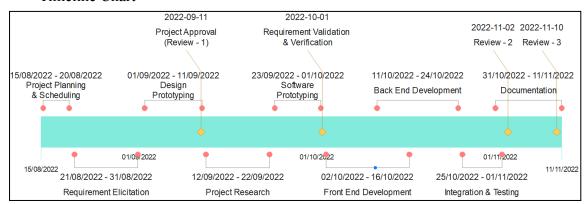


Figure 3. Timeline Chart

Gantt Chart

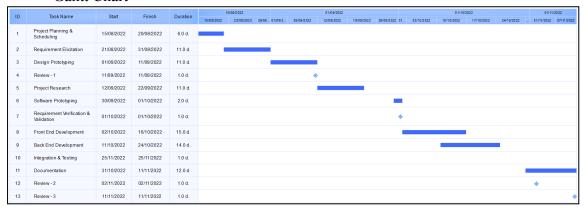


Figure 4. Gantt Chart

6. PROJECT DEMONSTRATION

6.1 Takeaway Portal

Homepage

The homepage showcases the food catalog of the restaurants while also acting as a getaway to other features like login, signup, cart, search bar, etc. The search bar allows easy navigation through the food catalog.

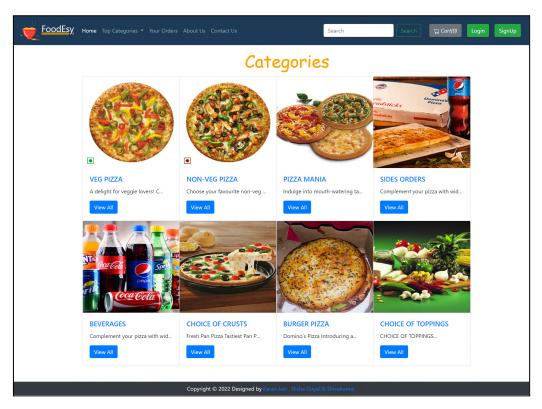


Figure 5.1 Home Page of Takeaway Portal

Signup Form

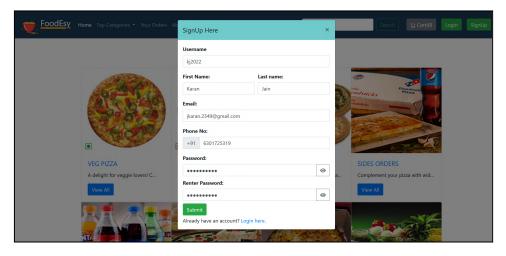


Figure 5.2 Signup Form

Login Form

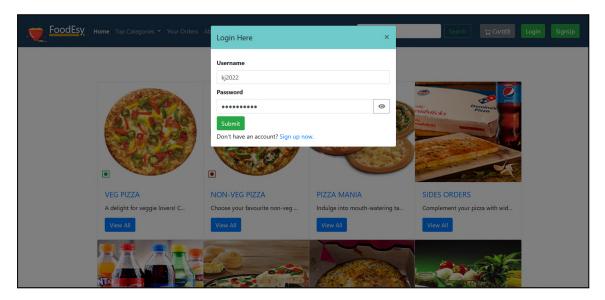


Figure 5.3 Login Form

Loggin Feedback Message

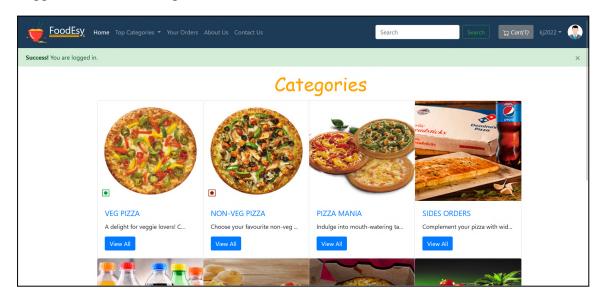


Figure 5.4 Feedback Message

About Us

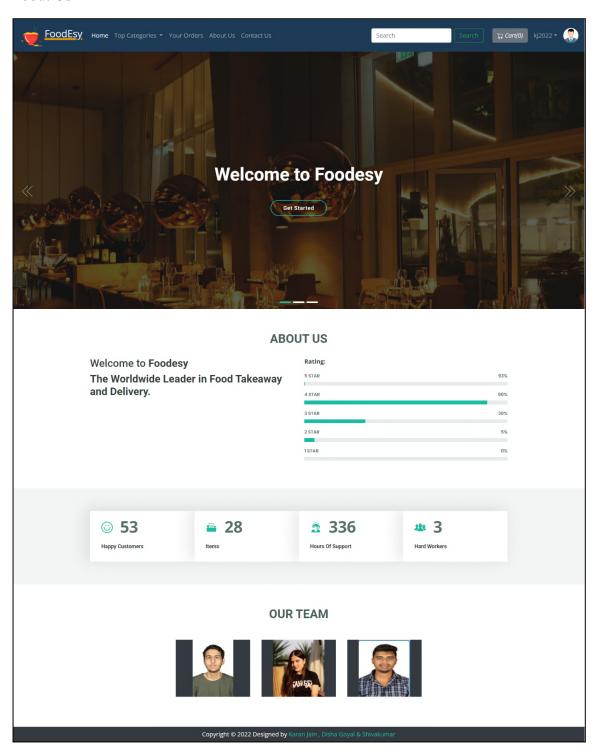


Figure 5.5 About Us Page

User Profile



Figure 5.6 User Profile Page

Cart

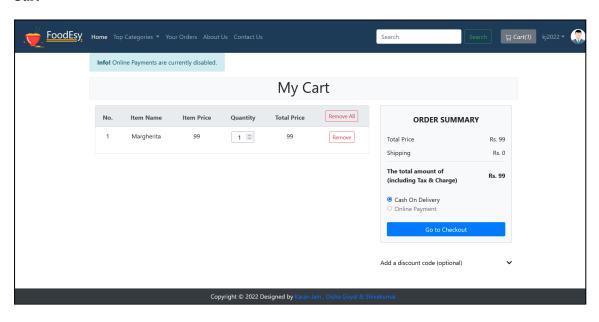


Figure 5.7 Cart Page

Checkout

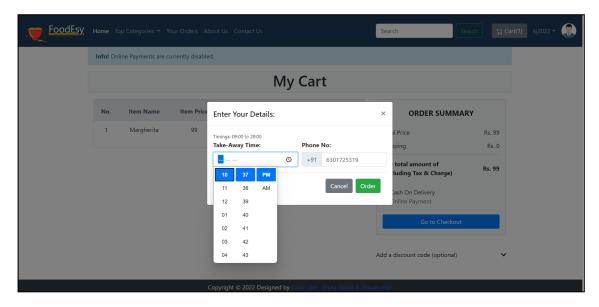


Figure 5.8 Checkout form



Figure 5.9 Order Confirmation containing Order ID

Your Orders

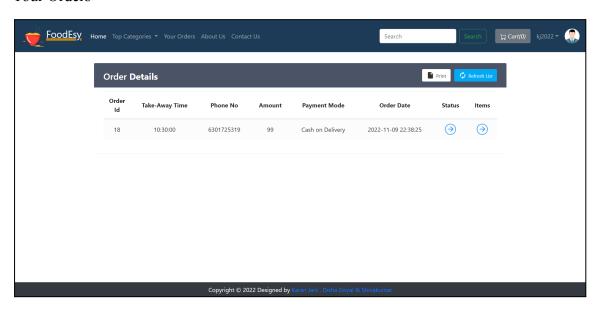


Figure 5.10 Your Orders Page

Order Status Tracking

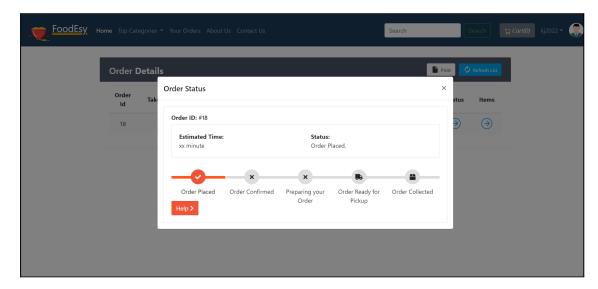


Figure 5.11 Order Status Modal

View Ordered Items

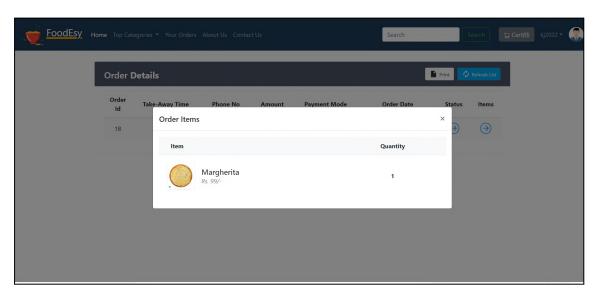


Figure 5.12 Order Items Modal

Contact Us

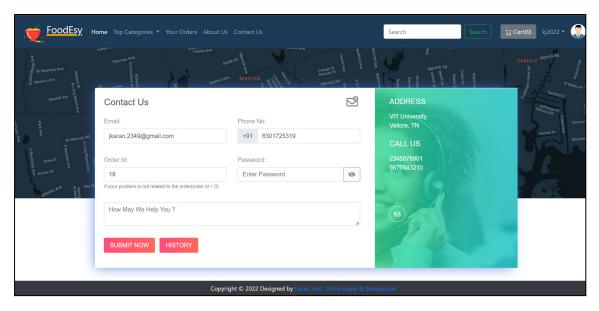


Figure 5.13 Contact Us Page

6.2 Admin Portal

Login Page



Figure 6.1 Admin Login Page

Admin Dashboard

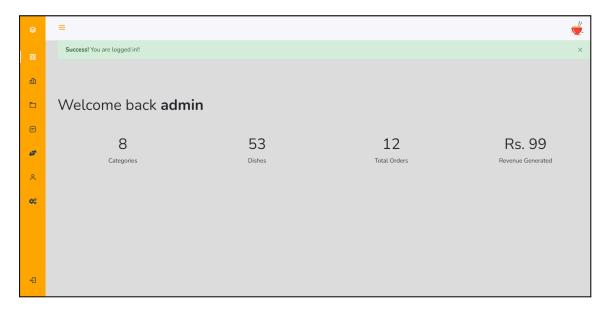


Figure 6.2 Admin Dashboard

Manage Orders



Figure 6.3 Manage Order Page

Update Order Status Form

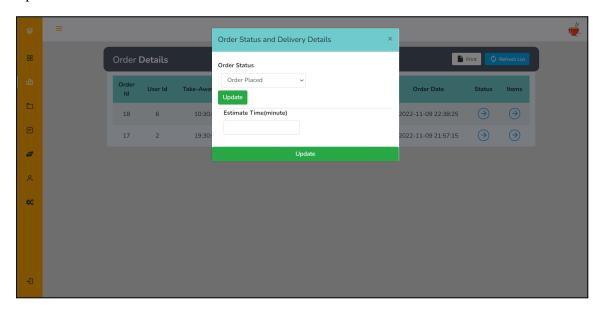


Figure 6.4 Order Status Update Form

View Ordered Items

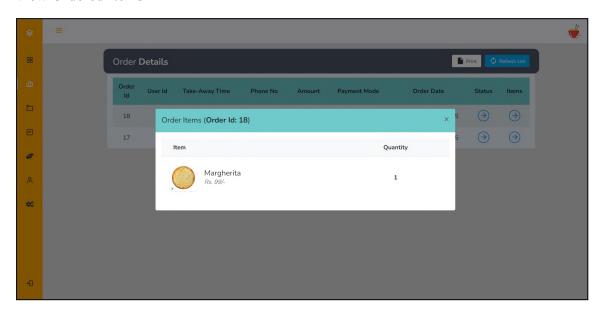


Figure 6.5 Ordered Items Model

Manage Categories

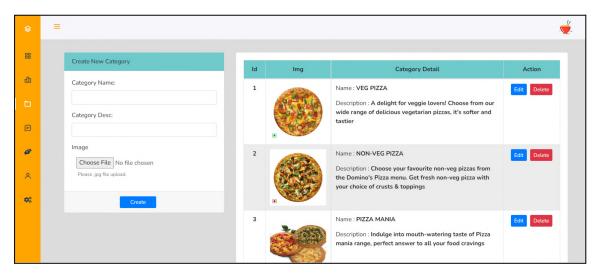


Figure 6.6 Manage Categories Page

Manage Menu Items

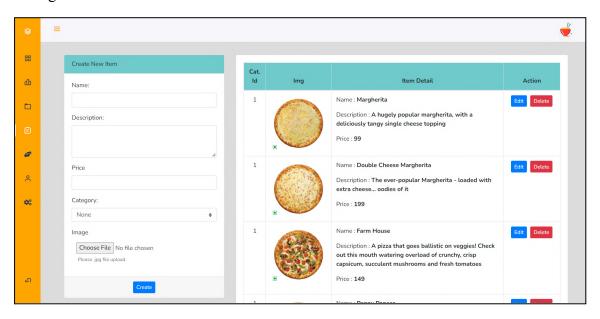


Figure 6.7 Manage Menu Items Page

Manage Message Replies

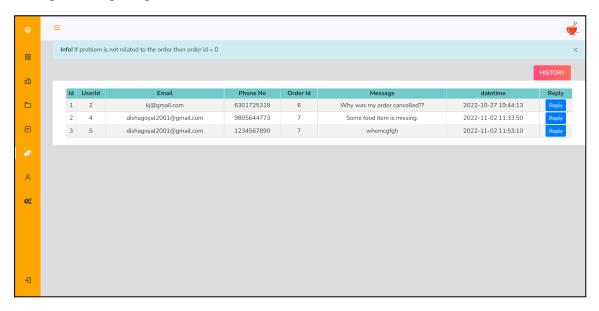


Figure 6.8 Manage Message Replies Page

Manage Users



Figure 6.9 Manage Users Page

Manage Site Details

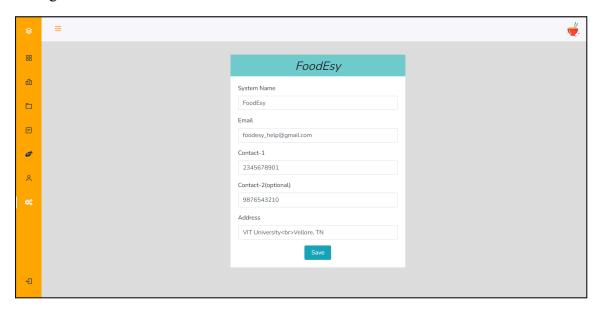


Figure 6.10 Manage Site Details

7. RESULTS & DISCUSSION

The following survey was conducted as a part of software validation and verification. Multiple end users were asked the following questions. Most responses validate the feasibility of the project along with the validation of its features and services.

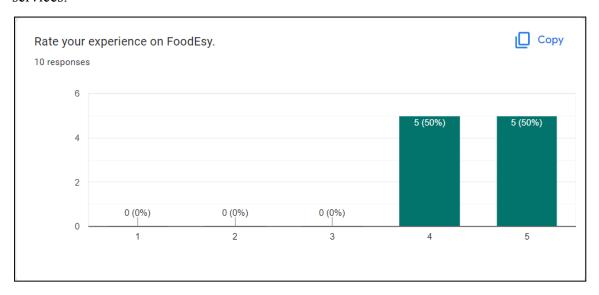


Figure 7.1 Feedback Submission - 1

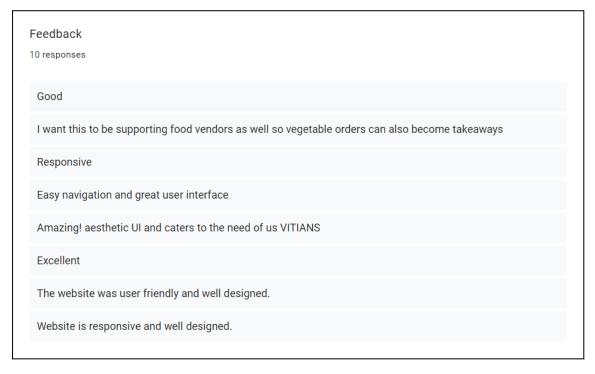


Figure 7.2 Feedback Submission - 2

The developed website meets the stated objectives in terms of streamlining the ordering process and boosting customer satisfaction.



Figure 7.3 Feedback Submission - 3

The above mentioned improvement can be integrated in the future along with home delivery, live delivery tracking, UI improvements, etc.

8. SUMMARY

In the end it is concluded that we have made an effort on the following points:

- A description of the background and context of the project and its relation to work already done in the area.
- Made a statement of the aims and objectives of the project.
- The description of Purpose, Scope, and applicability.
- We define the problem on which we are working in the project.
- We describe the requirement specifications of the system and the actions that can be done on these things.
- We understand the problem domain and produce a model of the system, which describes operations that can be performed on the system.
- We included features and operations in detail, including screen layouts.
- We designed user interfaces and security issues related to the system.
- Finally the system is implemented and tested according to test cases.

9. REFERENCES

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- [5] https://www.dunzo.com/chennai
- [6] https://www.w3schools.com/