MINI PROJECT-I

(2021-22)

"FOODIZONE"

Project Report

Institute of Engineering & Technology

Submitted By -

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Under the Supervision Of

Mr Mandeep Singh

Technical Trainer

Department of Computer Engineering & Applications

CONTENTS

Department of Computer Engineering and Applications

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Declaration

I/we hereby declare that the work which is being presented in the Bachelor of technology. Project **"FOODIZONE"**, in partial fulfilment of the requirements for the award of the ***Bachelor of Technology*** in Computer Science and Engineering and submitted to the Department of Computer Engineering and Applications of GLA University, Mathura, is an authentic record of my/our own work carried under the supervision of **Mr. Mandeep Singh, Technical Trainer, Dept. of CEA, GLA University.**

The contents of this project report, in full or in parts, have not been submitted to any other Institute or University for the award of any degree.

Sign:

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Certificate

This is to certify that the project entitled "FOODIZONE", carried out in Mini Project is a bonafide work by Aditi Mishra and Garima Singh Parihar and is submitted in partial fulfillment of the requirements for the award of the degree Bachelor of Technology (Computer Science & Engineering).

Signature of Supervisor:

Name of Supervisor: Mr. Mandeep Singh

Designation: Technical Trainer

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ACKNOWLEDGEMENT

Presenting the ascribed project paper report in this very simple and official form, we would like to place my deep gratitude to GLA University for providing us the instructor Mr Mandeep Singh, our technical trainer and supervisor.

He has been helping us since Day 1 in this project. He provided us with the roadmap, the basic guidelines explaining on how to work on the project. He has been conducting regular meeting to check the progress of the project and providing us with the resources related to the project. Without his help, we wouldn't have been able to complete this project.

And at last but not the least we would like to thank our dear parents for helping us to grab this opportunity to get trained and also my colleagues who helped me find resources during the training.

Thanking You

Sign:

Name of Candidate: Aditi Mishra

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ABSTRACT

FoodiZone is a web-based project which describes a process in which one can order various foods and beverages through the use of the internet, just by sitting at home or any place. And the order is delivered to the told location.

It is developed using Node JS, Express JS, Tailwind CSS, MongoDB, and used EJS i.e. Embedded JavaScript as a template to deliver the Front-end part over the website.

The project contains an admin(manager) and the user side. The management like updating food items, checking order status, and updating it, are managed from the admin side.

For the user section, the users can go through the home, about us, log in, register, cart section, and contact us pages. To order the food items, the user has to create an account and sign in or log in. The food comes with the cost as well. This project makes a convenient way for customers to buy/purchase food online, without having to go to a restaurant.

Talking about the features of this system, it contains the admin(manager) section and the user (customer) section. All the updating, and managing of order details, and food items, are from the admin section while customers can go through the site and have different options in food items and can give orders if they want. The design of this system is simple so that the user won't get any difficulties while working on it and so it is user-friendly.

CHAPTER-1 INTRODUCTION

1.1 OBJECTIVE

The main objective of the project is to provide online food ordering opportunities so that the users can get a variety of options in food and the process will also be very fast in delivering the food at the specified location. This project is very easy to operate and user-friendly, so everything can be accessed with just one click. There are various modules in the project explaining the details of the website so that if the customer finds any difficulty or faces any issue, then he/she can contact and take help.

1.2 EXISTING SYSTEM

In the existing system, each task is carried out manually and processing is also a tedious job. In the previous system, everything regarding the ordering and payment was maintained timetable details manually in pen and paper, which was time taking and costly. The customers were having very less options for food too. Because of the manual maintenance, there are a number of difficulties and drawbacks exist in the system. Some of them are: -

Drawbacks of the Existing System:

→ Increased transaction leads to increased source documents and hence maintenance becomes difficult.

→ If any admin, user entry is wrongly made then the maintenance becomes very difficult.

1.3 SOURCES

The source of our project (including all the project work, documentation, and synopsis) is available at the following link:

https://github.com/aditi0206/FoodiZone.git

CHAPTER -2

REQUIREMENT ANALYSIS

2.1 HARDWARE AND SOFTWARE REQUIREMENTS

Hardware Requirement

- Processor: intel i5
- Operating System: Windows
- RAM: 4 GB (or higher)
- Hard disk: 1 Tb and more
- Screen Size: 14 inches and more

Software Requirement

- Technology implemented: Mern Stack
- Language used: NODE JS, EXPRESS, TAILWIND CSS
- Database: MONGODB
- User Interface Design: Graphical User Interface

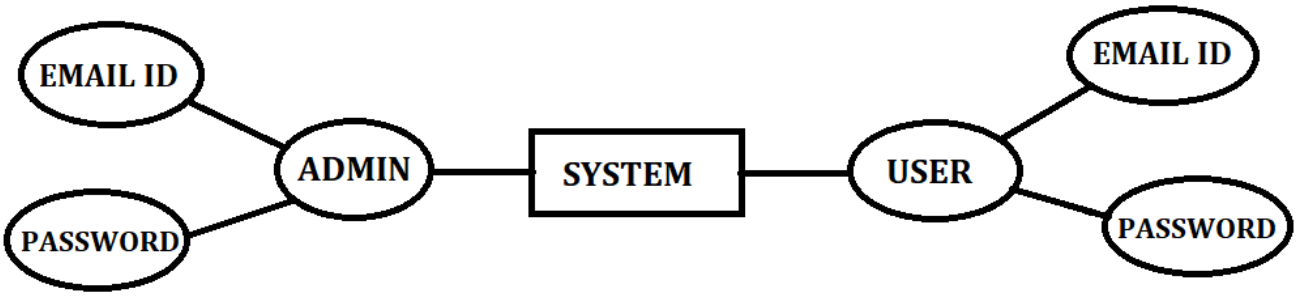
2.2 MODULES AND FUNCTIONALITIES

Modules in the project:

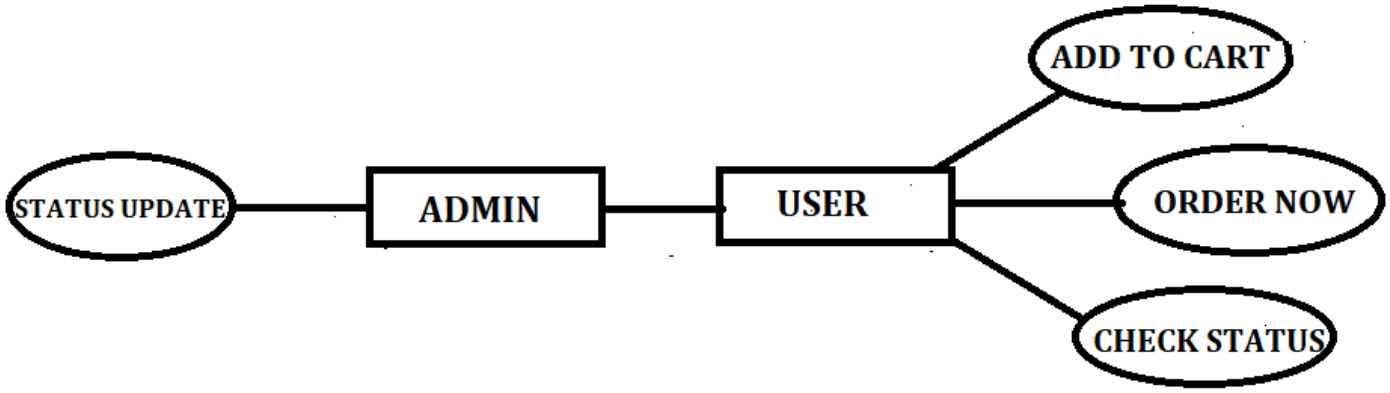
- Admin section.
- User section
- Cart section
- Login section
- Register section
- About Us section
- Contact section

CHAPTER-3 SOFTWARE DESIGN

3.1 SYSTEM DATA FLOW DIAGRAM



3.2 MODULES DATA FLOW DIAGRAM



CHAPTER-4 TECHNOLOGY USED

1)NODE JS

Node.js is an open-source and cross-platform runtime environment built on Chrome's V8 JavaScript engine for executing JavaScript code outside of a browser. You need to recollect that NodeJS isn't a framework, and it's not a programing language.

It provides an event-driven, non-blocking (asynchronous) I/O and cross-platform runtime environment for building highly scalable server-side applications using JavaScript.

Features of NodeJS: There are other programming languages also that we can use

to build back-end services so what makes Node.js different I am going to explain.

- It's easy to get started and can be used for prototyping and agile development.
- It provides fast and highly scalable services.
- It uses JavaScript everywhere, so it's easy for a JavaScript programmer to build back-end services using Node.js.
- Source code cleaner and consistent.
- Large ecosystem for open source library.
- It has Asynchronous or Non-blocking nature.

2) Tailwind CSS

- Tailwind CSS can be used to make websites in the fastest and the easiest way.

- Tailwind CSS is basically a utility-first CSS framework for rapidly building custom user interfaces.

- It is a highly customizable, low-level CSS framework that gives you all of the building blocks you need to build bespoke designs without any annoying opinionated styles you have to fight to override.

- The beauty of this thing called tailwind is it doesn't impose design specifications or how your site should look, you simply bring tiny components together to construct a user interface that is unique.

Why Tailwind CSS?

- Faster UI building process.

- It is a utility-first CSS framework which means we can use utility classes to build custom designs without writing CSS as in the traditional approach.

Advantages of Tailwind CSS:

- No more silly names for CSS classes and Ids.

- Minimum lines of Code in CSS file.

- We can customize the designs to make the components.

- Makes the website responsive.

3)EXPRESS JS

Express is a small framework that sits on top of Node.js's web server functionality to simplify its APIs and add helpful new features.

It makes it easier to organize your application's functionality with middleware and routing; it adds helpful utilities to Node.js's HTTP objects; it facilitates the rendering of dynamic HTTP objects.

Express is a part of MEAN stack, a full-stack JavaScript solution used in building fast, robust, and maintainable production web applications.

- MongoDB(Database)
- ExpressJS(Web Framework)
- AngularJS(Front-end Framework)
- NodeJS(Application Server)

Feature of Express

- Develops Node.js web applications quickly and easily.
- It's simple to set up and personalize.
- Allows you to define application routes using HTTP methods and URLs.
- Includes a number of middleware modules that can be used to execute additional requests and response activities.
- Simple to interface with a variety of template engines, including Jade, Vash, and EJS.
- Allows you to specify a middleware for handling errors.

4) MONGODB

MongoDB, the most popular NoSQL database, is an open-source document-oriented database. The term 'NoSQL' means 'non-relational'. It means that MongoDB isn't based on the table-like relational database structure but provides an altogether different mechanism for the storage and retrieval of data. This format of storage is called BSON (similar to JSON format).

Features of MongoDB:

- **Document Oriented**: MongoDB stores the main subject in the minimal number of documents and not by breaking it up into multiple relational structures like RDBMS. For example, it stores all the information of a computer in a single document called Computer and not in distinct relational structures like CPU, RAM, Hard disk, etc.

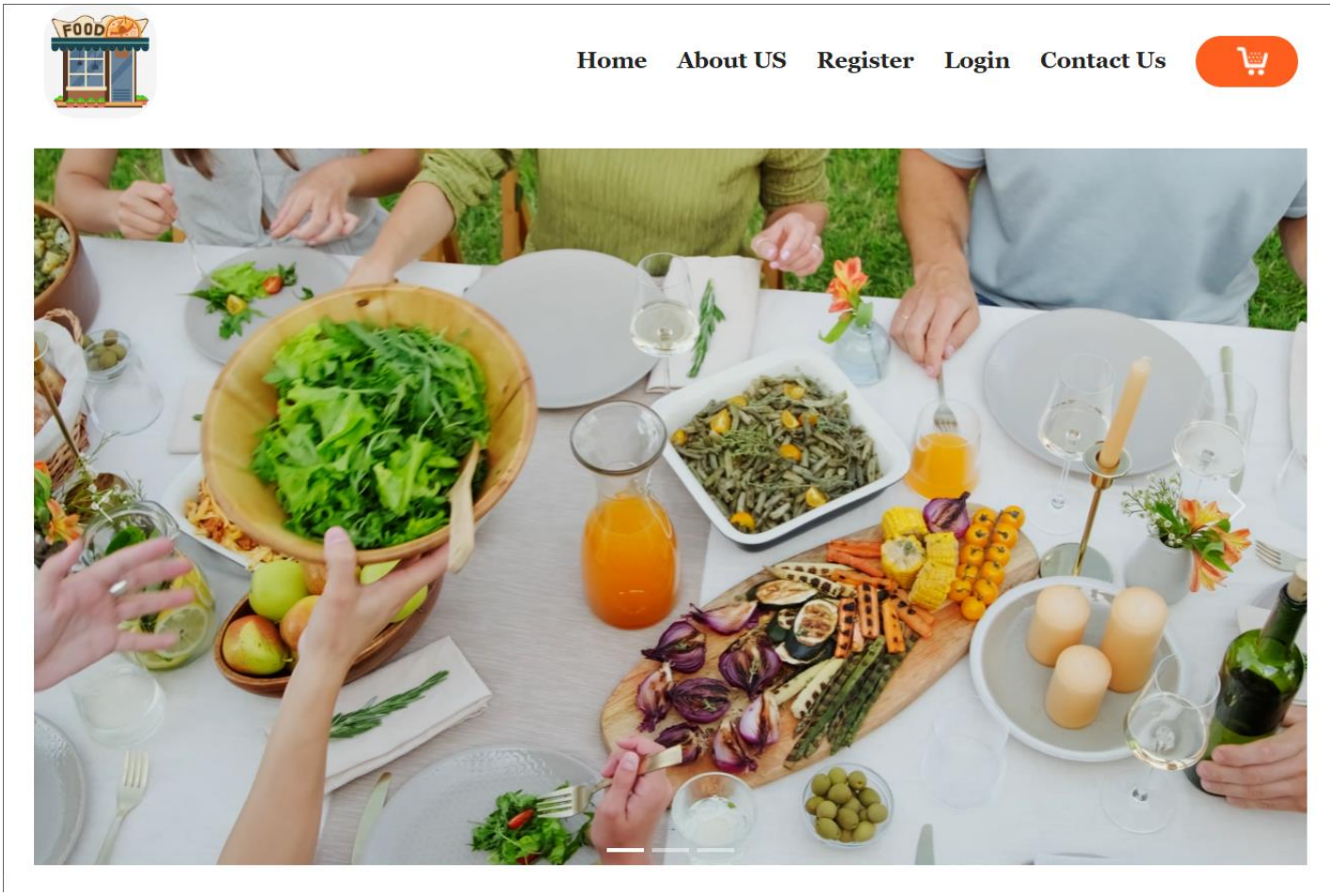
- **Indexing**: Without indexing, a database would have to scan every document of a collection to select those that match the query which would be inefficient. So, for efficient searching Indexing is a must and MongoDB uses it to process huge volumes of data in very less time.

- **Scalability**: MongoDB scales horizontally using sharding (partitioning data across various servers). Data is partitioned into data chunks using the shard key, and these data chunks are evenly distributed across shards that reside across many physical servers. Also, new machines can be added to a running database.

- **Replication and High Availability**: MongoDB increases the data availability with multiple copies of data on different servers. By providing redundancy, it protects the database from hardware failures. If one server goes down, the data can be retrieved easily from other active servers which also had the data stored on them.

CHAPTER-5 USER INTERFACE

A) HOME PAGE



WELCOME TO FOOD PLAZA

YUMMY!! DISHES

STUFF KULCHA

FULL KULCHA

₹50 + Add

DOSA

PLAIN DOSA AND MASALA DOSA

₹70 + Add

LACHHA PARATHA

PARATHA WITH RAITA

₹100 + Add

VEG DELUX THALI

SPECIAL THALI

₹150 + Add

CHICKEN LOLLIPOP

FULL PLATE

₹185 + Add

EGG CURRY

FULL AND HALF PLATE

₹150 + Add

CHICKEN BIRYANI

FULL AND HALF PLATE

₹140 + Add

SPECIAL NON VEG THALI

SPECIAL THALI FULL

₹500 + Add

Details regarding the website

ABOUT

FoodiZone a food ordering website which gives variety of options to users for their choice, whichever food they want they can order various foods and beverages through the use of the internet, just by sitting at home or any place. And the order is delivered to the told location

TECHNOLOGY

Node JS

Express JS

Tailwind CSS

MongoDB

QUICK LINKS

ABOUT US

REGISTER

LOGIN

CONTACT US

CONTACT

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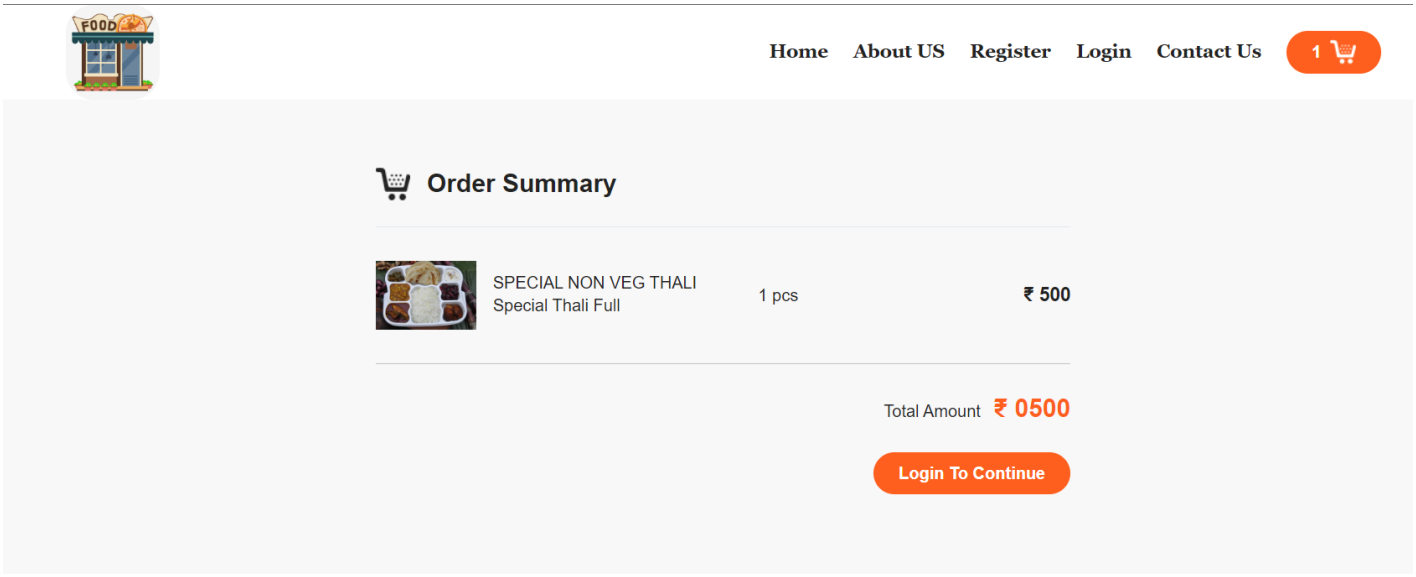
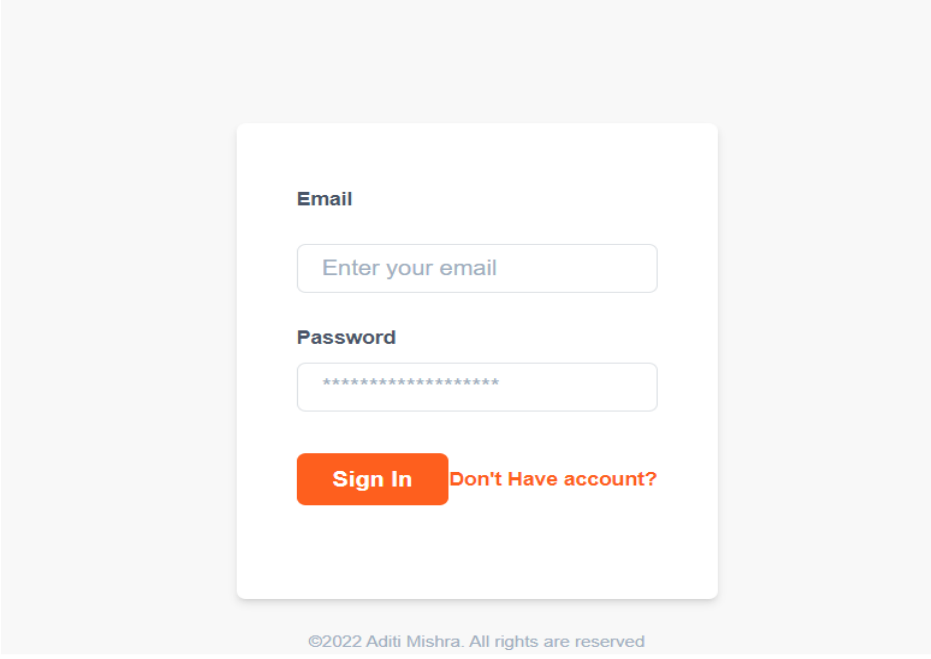
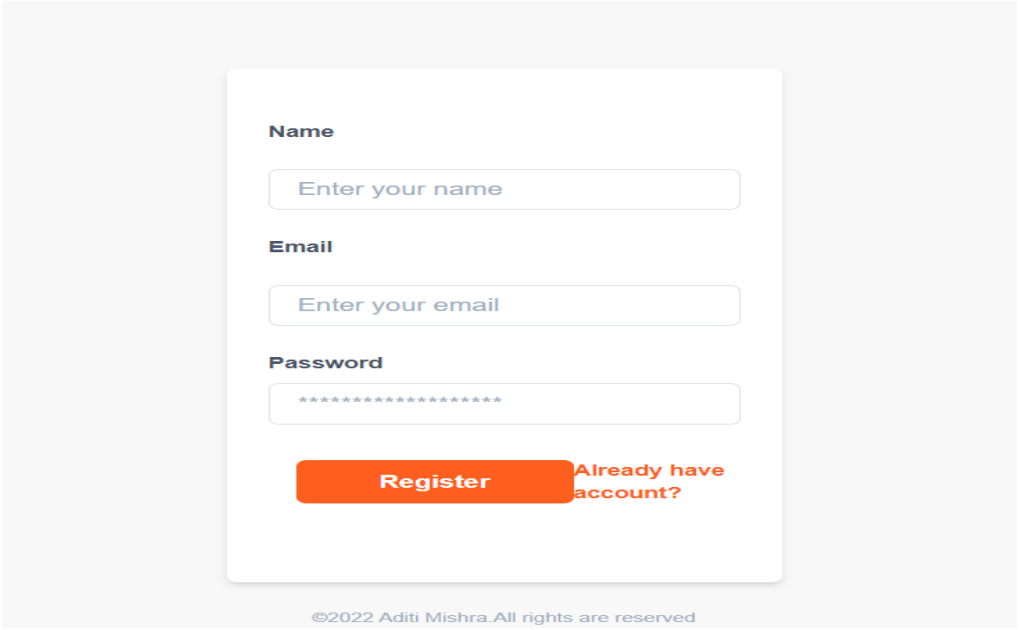
B) WHEN NOT LOGIN



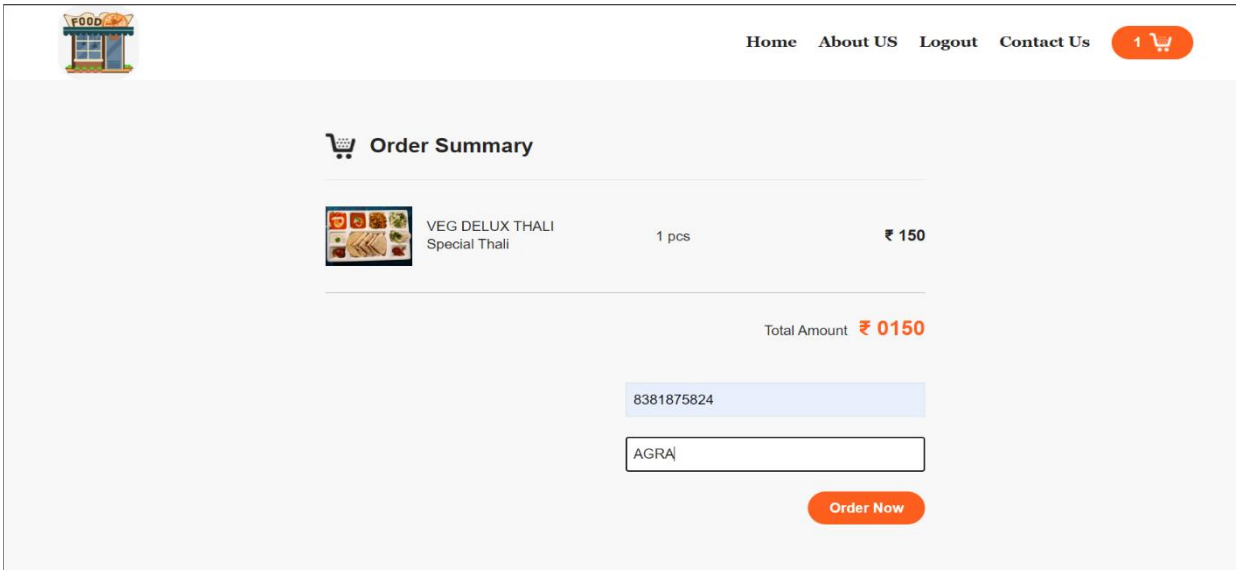
C) LOGIN PAGE



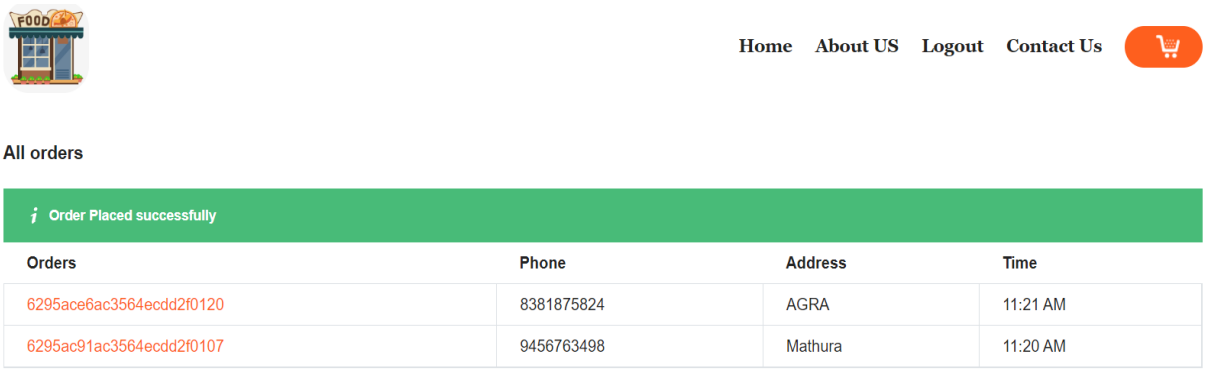
C) REGISTER PAGE



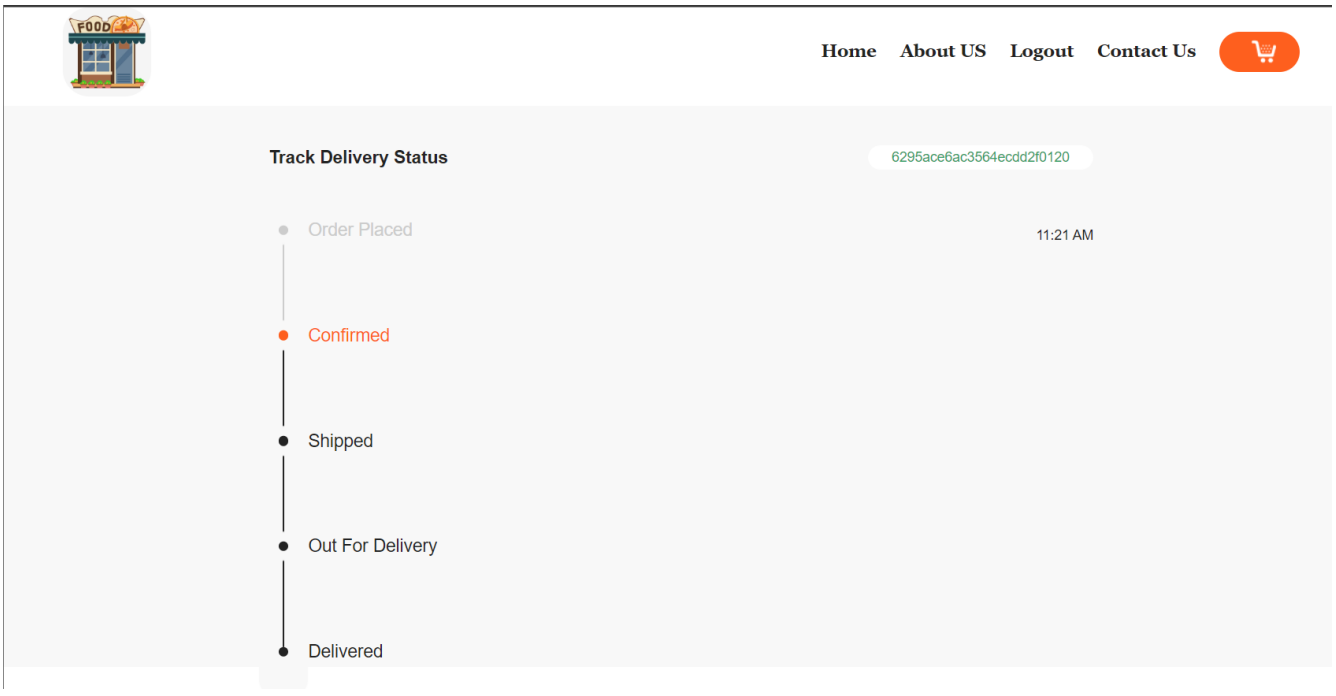
D)ORDER PAGE



E) ORDER DETAIL



F)USER ORDER STATUS



CHAPTER -6

CONCLUSION

• This includes that this website can be connected to various restaurants and when people want to place an order for the food, they can get it very easily as and when required.

• Various features on the admin side can be added. Like admin will have the options for editing the food and can add or delete customers.

• Google API can be added so that whatever location we will enter the food of that place will be available to us.

• We can add features like if the customer wants to book seats in the restaurant online and also want to order the food, then they can do both simultaneously.

• As we progress further, these concepts will reach heights of popularity. Thus, the implementation and more usage of a food ordering website will obviously make the system much more popular within a few days or months

REFERENCES

1. **W3Schools:** https://www.w3schools.com/html/default.asp

2. ***Stack Overflow***: https://stackoverflow.com/