# **PROJECT REPORT**



-are u hungry?... don't wait

**PROJECT NAME**: FOODKINGS (FOOD DELIVERY WEBSITE)

**SUBJECT: DBMS AND SOFTWARE ENGINEERING** 

# TEAM-4

# **TEAM MEMBERS AND THEIR CONTRIBUTIONS:**

S Venkata Ramana- 19bcs096 (Backend & Databases & Project modelling)

M. Sai Madhav Reddy -19BCS074 (Frontend & Backend & API integration)

D. Abhinav- 19bcs040 (layout (HTML) & UI design)

CH. Aaseesh sumanth- 19bcs033 (UI & graphics design)

E. Harshith Kumar Yadav -19bcs041 (Payment Gateway & User Authentication)

K.R.R. Yatheeswar - 19bcs045 (Frontend design (HTML, CSS))

B. Vijay kumar -19BCS017 (Testing & debugging)

B. Neelakanteswar -19bcs020 (Frontend & Deploying)

IMPORTANT NOTE: Dataset/databases are there in the form of .JSON files in this github repository. EX: Menu.JSON etc

There is user manual .txt file where it will show how to use our project, and brochure is also there in this repository

### **OUR OBJECTIVE:**

Foodkings connects small and medium restaurants surrounding to our college. Our solution of food delivery is viable because we use Bicycles for delivery as the scalability of our functioning is not high. Our solution helps many small restaurants around the college.

# SOME UNIQUE THINGS ABOUT OUR PROJECT:

## **GEOLOCATION:**

We track you via javascript geolocation which tracks your location where ever you are, but it needs internet and your electronic device such as phone/laptop etc using this API we will track you very closely if there is any error in your address.

## LIVE TRACKING:

In this feature admin that is the delivery boy control live tracking procedure Which means what is the progress of our order

### SUPPORT TO MSME:

The main aim of this project is to connect small and medium restaurants/dhabas/curry points/food shops/hotels to our college. They can Very easily connect to us.

ONLINE PAYMENT : we have integrated stripe.js so that online payment is possible and easy to do.

### **OUR DEPENDENCIES AND DEV DEPENDENCIES:**

```
"scripts": {
 "serve": "node server.js",
"dev": "nodemon server.js",
 "development": "cross-env NODE ENV=development node modules/webpack/bin/webpack.js --progress --
 "watch": "npm run development -- --watch",
 "production": "cross-env NODE_ENV=production node_modules/webpack/bin/webpack.js --no-progress
},
"license": "MIT",
"dependencies": {
 "@babel/plugin-proposal-class-properties": "^7.12.1",
 "@stripe/stripe-js": "^1.10.0",
 "axios": "^0.19.2",
 "bcrypt": "^5.0.0",
"connect-mongo": "^3.2.0",
 "cross-env": "^7.0.2",
 "dotenv": "^8.2.0",
 "ejs": "^3.1.3",
 "express": "^4.17.1",
 "express-ejs-layouts": "^2.5.0",
 "express-flash": "^0.0.2",
 "express-session": "^1.17.1",
 "moment": "^2.27.0",
 "mongoose": "^5.9.25",
 "noty": "^3.2.0-beta",
 "passport": "^0.4.1",
 "passport-local": "^1.0.0",
 "socket.io": "^2.3.0",
 "stripe": "^8.118.0"
"devDependencies": {
 "laravel-mix": "^5.0.4",
 "nodemon": "^2.0.4",
"resolve-url-loader": "^3.1.0",
 "sass": "^1.26.9",
 "sass-loader": "^8.0.2",
 "vue-template-compiler": "^2.6.11"
```

### How our project works:

A student or any faculty can easily register and sign up into the website. In the Menu section in the nav bar there are all different items from different restaurants nearby the college, there are about a total of 120 to 150 items with different categories such as starters, drinks, soups etc..., of different price ranges the customers may select any number of items in any order it gets placed in cart from there he can check the price and order it by writing geolocation and address in address column and phone and select in which mode he want to pay (card or cash) and proceed to live tracking page

Where it tracks in which stage the process is? including the time where the admin controls the tracking. After the order is completed the food will be arrived to the customer by identifying with his order ID, or phone number.

Feedback can be given on our services and write their genuine complains in it, so that issues of refunding or bad servicing or delay etc ...,

Your own personal recipe could be shared to us so that we could discuss that with appropriate nearby restaurant.

Restaurants can join our chain by sending us there details to us in the restaurant so that we can add them into our chain and expand further.

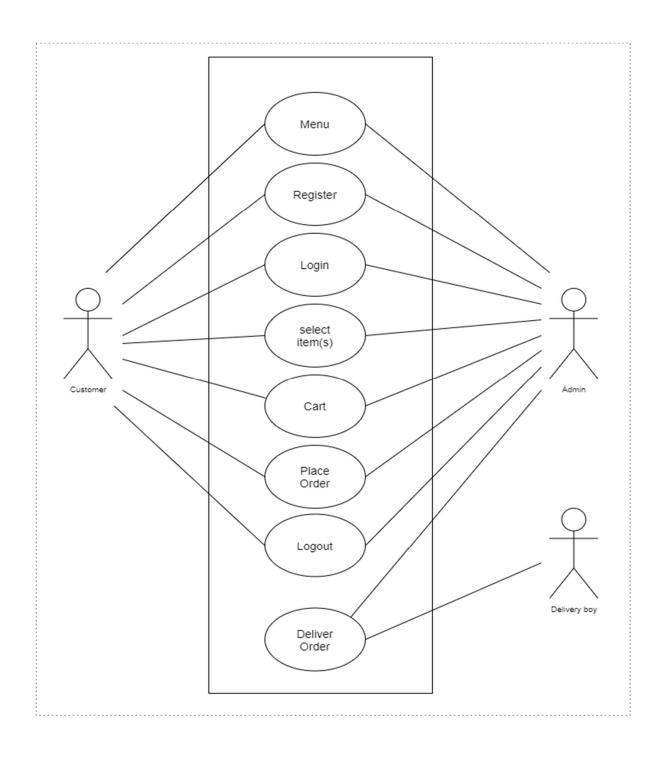
The restaurant owners can set limited time offers by sending us offer details with us, we will receive those offers in our backend we will confirm them, and modify our database and if one clicks "limited time offer" filter button it will automatically get updated, as by just changing our data base. Only admins accounts can control the live tracking page from his account, when the order is placed he will receive our order details such as items from which restaurant, Both customer as well as the admin can cancel the order this is our unique feature.

The admin can access all the order data and rest of the other data provided by the customer.

We have deployed our website on Heroku cloud

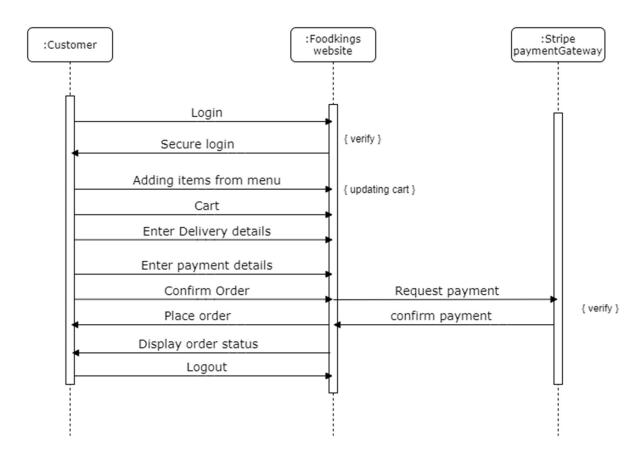
Our data base is stored in MongoDB Cloud. The mechanism of how the project can be set up is in user manual which is in this git hub repository.

# **USE CASE DIAGRAM:**

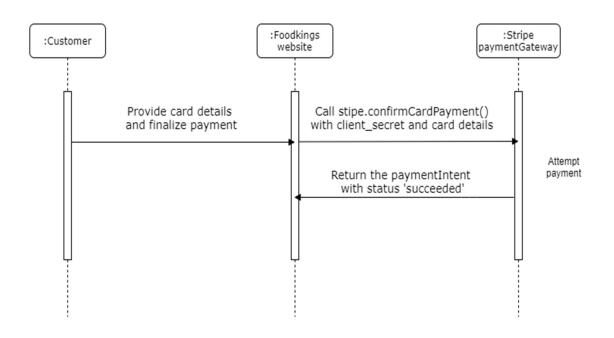


# **SEQUENCE DIAGRAM:**

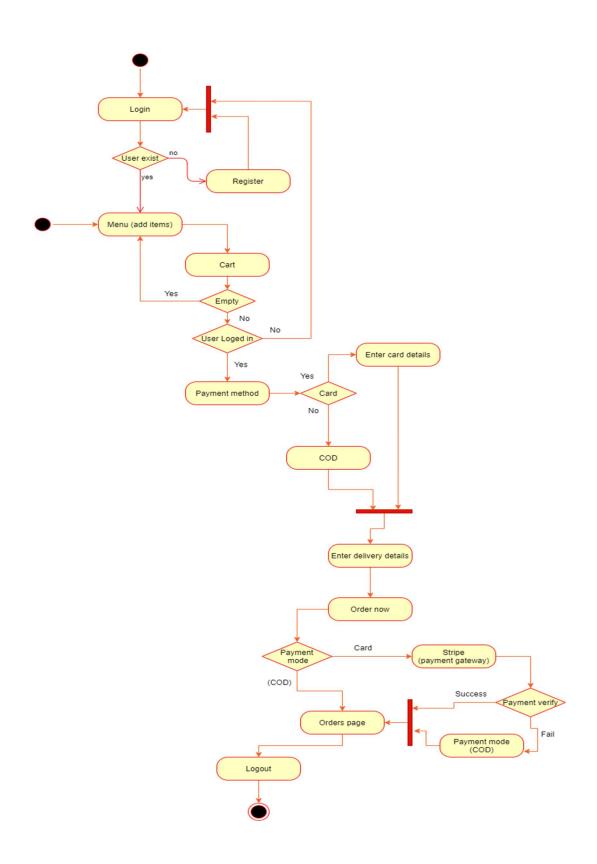
# a) For website:



# b) For payment gateway:



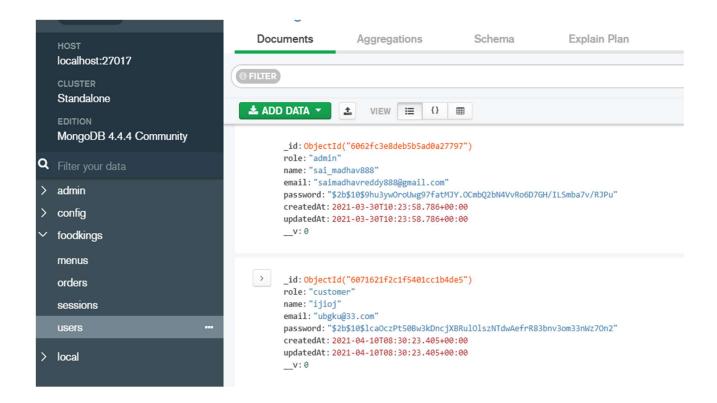
# **ACTIVTY DIAGRAM:**



### Important features used in the project:

# Bcrypt.js (secured login and register system):

We have used bcrypt.js for hashing the passwords inside the database so that no one can steal your information. We have chosen brcypt.js because it is a strong hashing method and easy to integrate in our stack. This will protect users data and increase security of the website



## Node.js filtering:

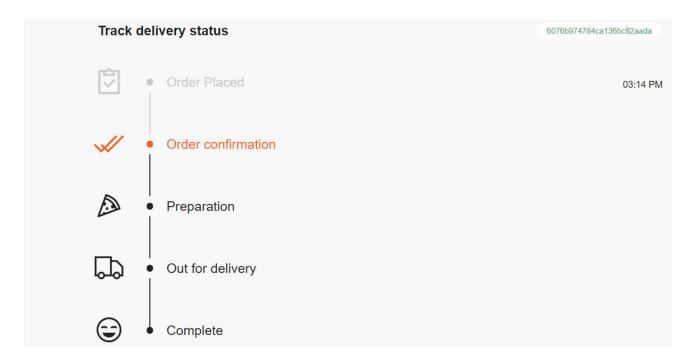
Every item is directly connected to our backend databases so that we can easily maintain and change the functionalities on our website, we have done filtering in our menu pages based on various parameter such as cost and offer.



# Live tracking:

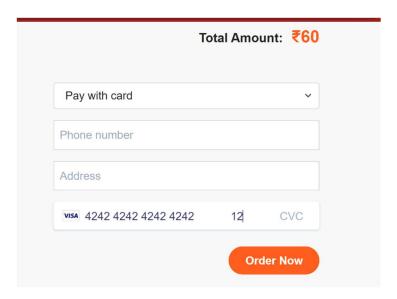
We have live delivery tracking system wherein you can purchase items in real time in 5 steps, this will help you to know in which stage the delivery is in. This will create comfort to our customers as they can track their orders. First, we will confirm your order the next step is whether the order is cooked or not, the third step would be to put order on delivery and the final step is whether customer received the order or not. Cancelling the order is also there.

All orders			
Orders	Phone	Address	Time
6076b974784ca136bc82aada	456564564	888	03:14 PM
60759fa70524865194598645	456564564564	sai baba road	07:11 PM
60732cc33b37b910e47080e3	456564564564	fsdgrdg	10:37 PM
6072f47b05e1ba4bd0e3355a	456	fsdgrdg	06:37 PM
60719c71a1babe5458353c90	8	888	06:09 PM
607187ebf0b8f64a0468f62f	9989253422	wer	04:41 PM
607186c2f0b8f64a0468f62e	456	fsdgrdg	04:36 PM
60717eeaf0b8f64a0468f62d	456564564	fsdgrdg	04:03 PM
60713ff41f95d217f4671e5e	456564564	fsdgrdg	11:34 AM
6069b87d404f734600352047	456564564	fsdgrdg	06:30 PM
606878fc404f734600352046	456564564564	rg	07:47 PM



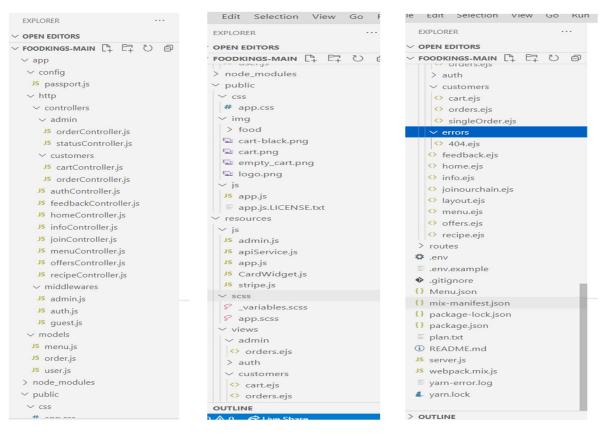
### Payment gateway via Stripe.js:

We have integrated payment gateway called stripe wherein money transfer takes place securely and even money refunding is also possible in stripe.js, it is connect to our backend.



# Well organised code:

We have organized our code very well in different files with comments and well organised backend files. We believe this will make our task easy for extending or upgrading our website in the future.



### Technologies Used:

We have used ejs templates for our front end framework, SCSS for designing, tailwind CSS, Laravel mix 5, node js and express js for back end framework, mongoDB for our database, stripe js for payment gateway

# About our dependencies and dev dependencies

#### Axios

- supports older browsers (Fetch needs a polyfill)
- has a way to abort a request.
- has a way to set a response timeout.
- has built-in CSRF protection.
- supports upload progress.
- performs automatic JSON data transformation.
- works in Node. js.

### **Bcrypt**

The bcrypt hashing function allows us to build a password security platform that scales with computation power and always hashes every password with a salt.

Bcrypt is an adaptive hash function based on the Blowfish symmetric block cipher cryptographic algorithm. ... Bcrypt is incredibly slow to hash input compared to other functions, but this results in a much better output hash. When it comes to hashing and encryption, faster is never better

### Connect-mongo

MongoDB session store for Connect and Express written in Typescript. Breaking change in V4 and rewritten the whole project using Typescript.

#### Cross-env

cross-env makes it so you can have a single command without worrying about setting or using the environment variable properly for the platform. Just set it like you would if it's running on a POSIX system, and cross-env will take care of setting it properly. Installation.

#### **Doteny**

Dotenv is a zero-dependency module that loads environment variables from a . env file into process. env . Storing configuration in the environment separate from code is based on The Twelve-Factor App methodology.

# E js

EJS simply stands for Embedded Javascript. It is a simple templating language/engine that lets its user generate HTML with plain javascript.

EJS is a tool for generating web pages that can include dynamic data and can share templated pieces with other web pages (such as common headers/footers). It is not a front-end framework.

### **Express**

The primary use of Express is to provide server-side logic for web and mobile applications, and as such it's used all over the place.

Express-ejs-layouts

Set custom default layout

ejs' is used. If you want to specify your custom layout (e.g. 'layouts/layout. ejs'), just set layout property in express app settings

### Express-flash

Provides Express. js flash message middleware that work for rendering or redirecting. Requires express-sessions or cookie-session middleware before apply this middleware.

## **Express-session**

The session middleware handles all things for us, i.e., creating the session, setting the session cookie and creating the session object in req object. Whenever we make a request from the same client again, we will have their session information stored with us (given that the server was not restarted)

#### **Moment**

MomentJS is a JavaScript library which helps is parsing, validating, manipulating and displaying date/time in JavaScript in a very easy way. This chapter will provide an overview of MomentJS and discusses its features in detail. Moment JS allows displaying of date as per localization and in human readable format.

### Mongoose

Mongoose is an Object Data Modeling (ODM) library for MongoDB and Node. js. It manages relationships between data, provides schema validation, and is used to translate between objects in code and the representation of those objects in MongoDB.

#### Notv

NOTY is a notification library that makes it easy to

create alert - success - error - warning - information - confirmation messages as an alternative the standard alert dialog.

The notifications can be positioned at

the; top - topLeft - topCenter - topRight - center - centerLeft - centerRight - bottom - bottomLeft - bottomCenter - bottomRight

There are lots of other options in the API to customise the text, animation, buttons and much more.

It also has various callbacks for the buttons, opening closing the notifications and queue control.

# **Passport**

Passport is authentication middleware for Node. js. Extremely flexible and modular, Passport can be unobtrusively dropped in to any Express-based web application. A comprehensive set of strategies support authentication using a username and password, Facebook, Twitter, and more.

## Passport-local

Passport strategy for authenticating with a username and password. By plugging into Passport, local authentication can be easily and unobtrusively integrated into any application or framework that supports Connect-style middleware, including Express

#### Socket.i0

Socket.IO enables real-time bidirectional event-based communication. It works on every platform, browser or device, focusing equally on reliability and speed. Socket.IO is built on top of the WebSockets API (Client side) and Node. js.

### **Stripe**

Stripe. js is a JavaScript library which you can wire into your checkout form to handle the credit card information. When a user signs up using the checkout form, it sends the credit card information directly from the user's browser to Stripe's servers.

#### Larval-mix

Laravel Mix is a tool for compiling and optimizing assets in a Laravel app. It's similar to a build tool like gulp, Grunt and such like. it's specific to Laravel but can also be used externally as an npm package. Laravel Mix covered 80% of Webpack's use case to make compiling assets easier.

#### Nodemon

nodemon is a command-line interface (CLI) utility developed by @rem that wraps your Node app, watches the file system, and automatically restarts the process.

### Resolve-url-loader

A webpack loader that rewrites relative paths in url() statements based on the original source file.

#### Sass

Sass (which stands for 'Syntactically awesome style sheets) is an extension of CSS that enables you to use things like variables, nested rules, inline imports and more. It also helps to keep things organised and allows you to create style sheets faster.

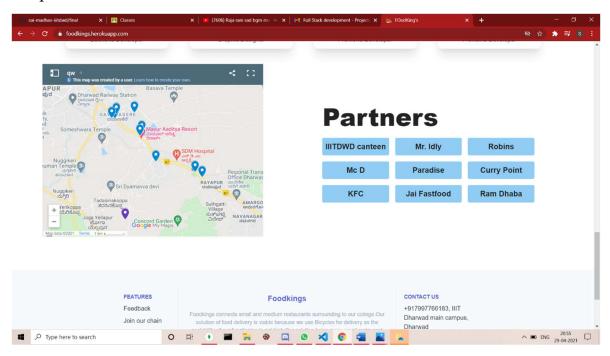
# Sass-loader

sass-loader is a loader for Webpack for compiling SCSS/Sass files. style-loader injects our styles into our DOM. css-loader interprets @import and @url() and resolves them. mini-css-extract-plugin extracts our CSS out of the JavaScript bundle into a separate file, essential for production build

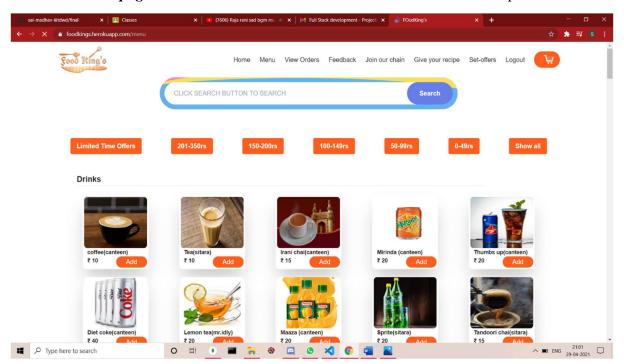
# Pages in Website and its contents:

# Home page:

Home page mainly consists of map and other information, through the google My maps API the delivery boy can coordinate the location easily as showed in the presentation.

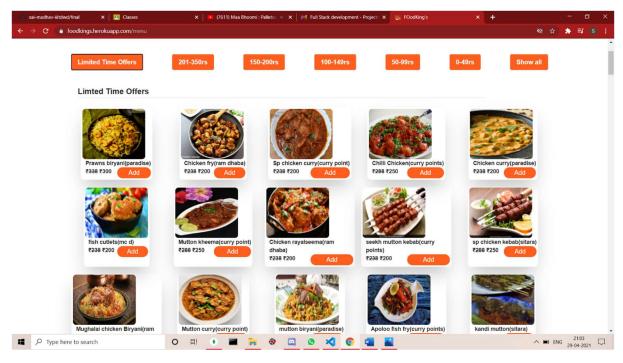


Customer menu page: it is filtered into different sections as shown in below picture:



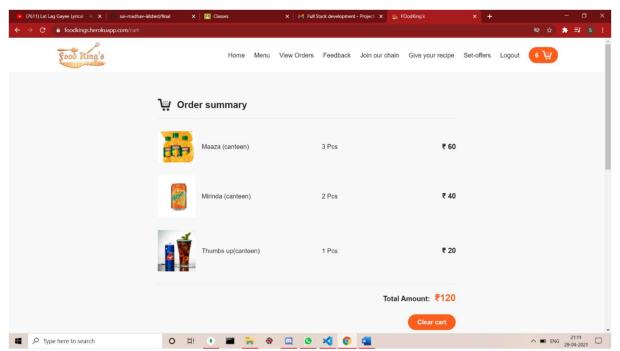
# Offers section in menu page:

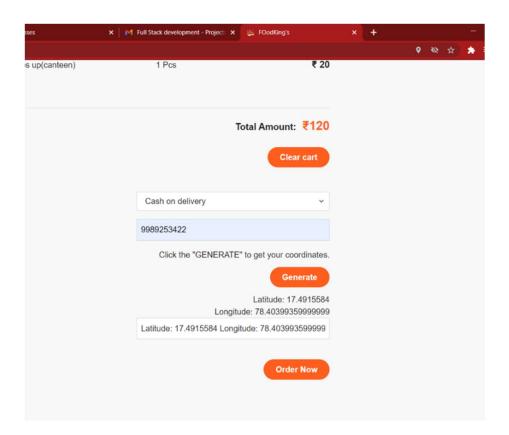
on clicking the filtering button of limited offer button this section will sort items which has offers. Similarly if you click other filtering button it will sort in the manner which you want to.

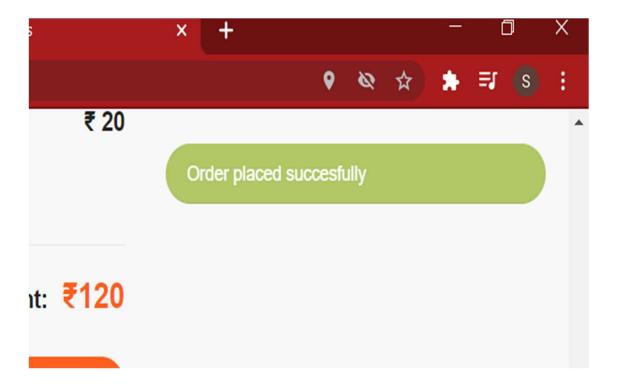


# Cart page:

This cart page where in a person can see his items which in his cart and the no of individual items and total cost of it and the person need to fill the detail an click generate to generate the geolocation of the customer so that delivery boy can track the location. The customer can also selection whether he wants cash on delivery or pay online

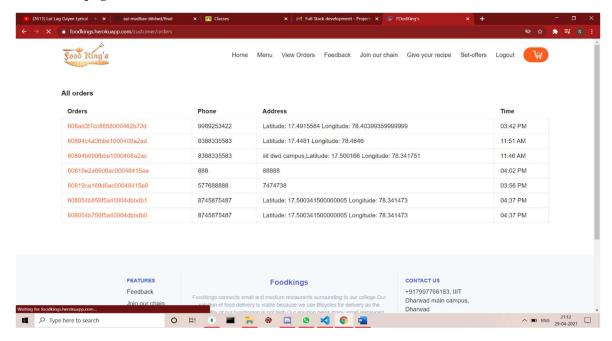




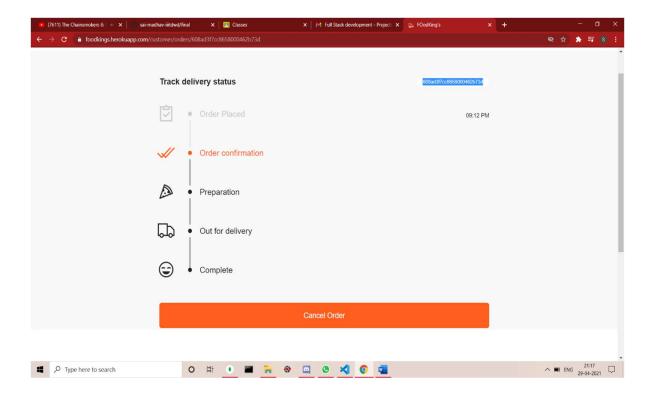


You will receive notification as soon as you place the order.

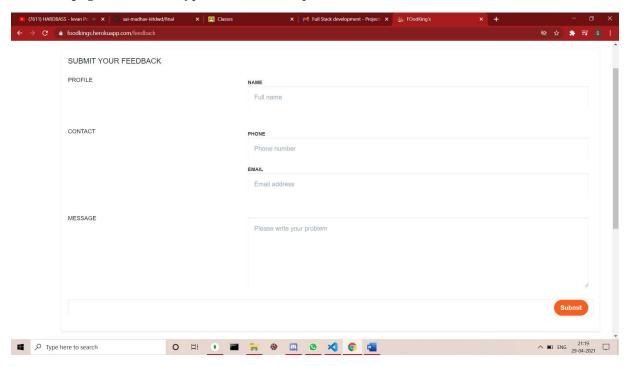
View order page: it is the list of our order with other details



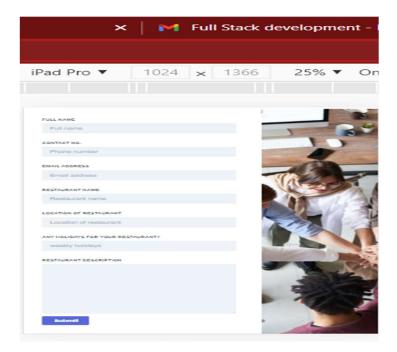
*Live tracking page:* this page does real time tracking for our order, so that customer can know in which stage the order is in. Does functionality as told in above page.



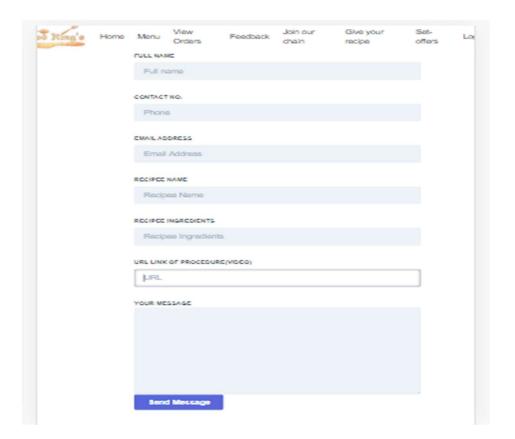
Feedback page: receives all types feedback to improve the services in future.



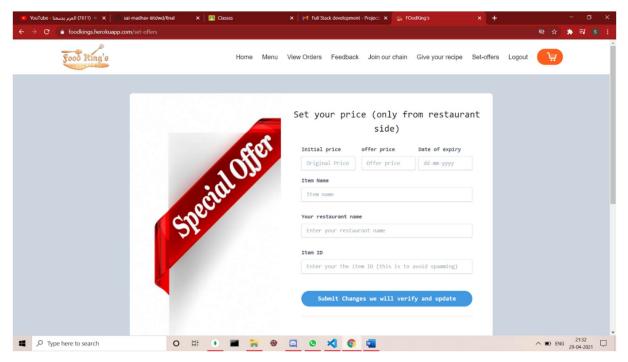
*Join our chain page*: this page allows new restaurants to join our chain of services, as it helps us to know about the restaurant which wants to join our chain. (PUT IN RESPONSE MODE SO THAT IN 1 PICTURE EVERYTHING CAN BE CAPTURED).



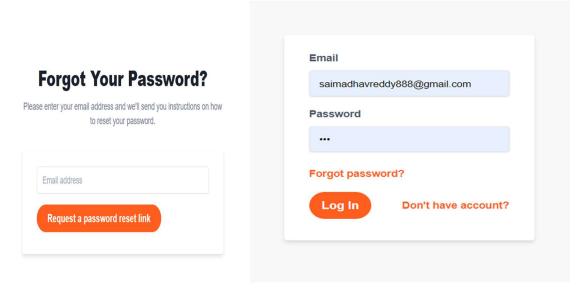
*Give your recipe page*: in this page customer can enter his own recipe, and we send these to appropriate restaurants in our chain so that they can get benefited. (PUT IN RESPONSE MODE SO THAT IN 1 PICTURE EVERYTHING CAN BE CAPTURED).



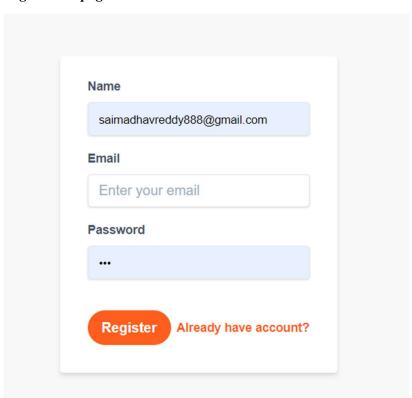
**Set-Offers page**: In this page restaurant owners can set their offers, so that particular item gets into limited time offers section in the menu page.



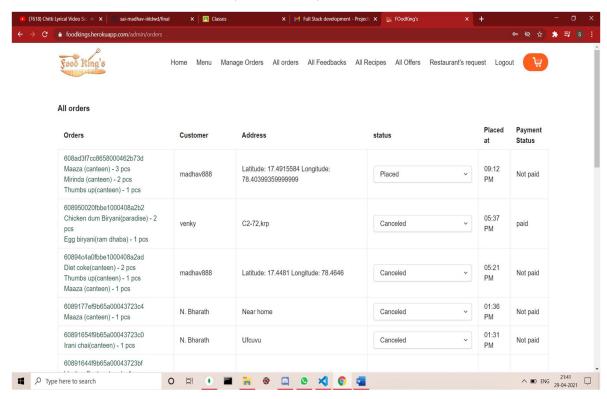
# Login page and forget password page:



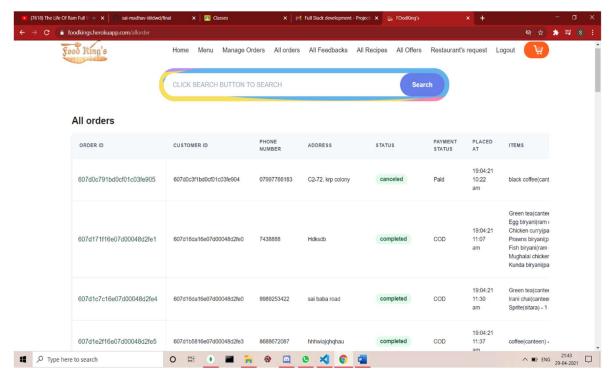
# Registration page:



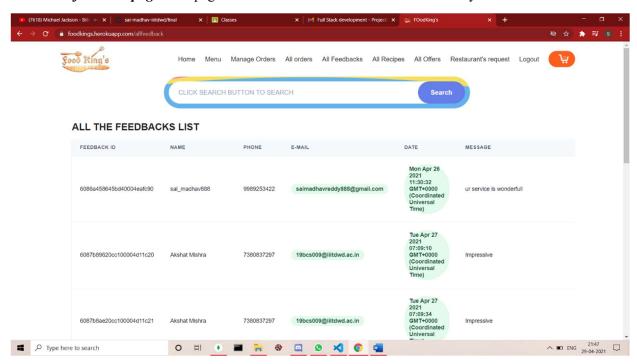
Admin Manage Orders page: This is the page where the admin can control the live tracking page of the customer in the status section can you can clearly see.



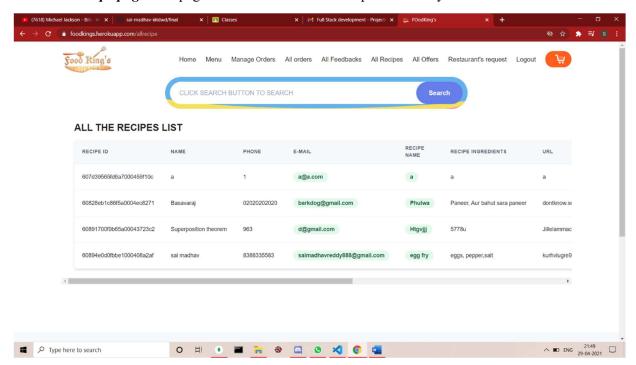
Admin all orders page: this page contains complete information of every order, as in manage order page if the order is updated to completed the order get automatically removed in the page.



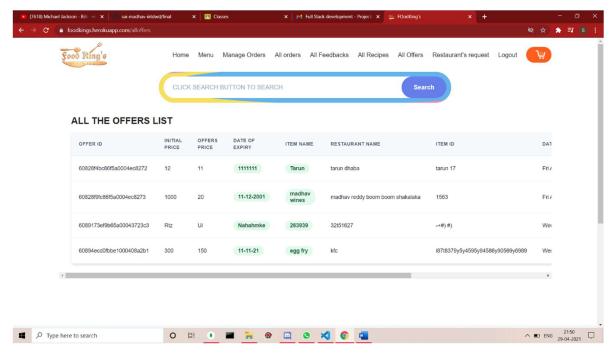
Admin all feedback page: this page contains details of all feedbacks written by the customers.



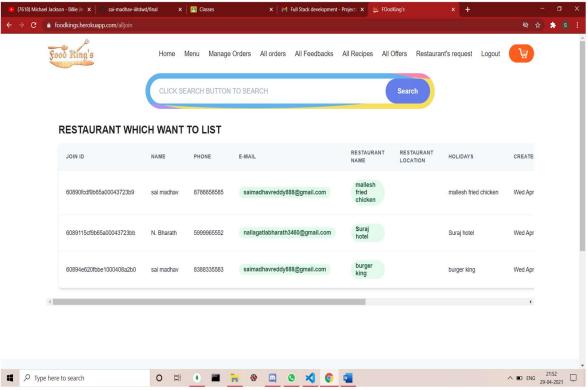
Admin all recipe page: this page contains details of all recipes written by the customers.



Admin all offers page: this page contains details of all offers written by the customers.



Admin Restaurants request page: this page contains all the details sent in by restaurant owner in the join our chain page. Through this page admin will know which restaurants are willing to join our chain of services.



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