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Report on Mini Project:

Restaurant Website

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ABSTRACT

During the global 2020 COVID-19 outbreak, the advantages of online food delivery (FD) were obvious, as it facilitated consumer access to prepared meals and enabled food providers to keep operating. However, online food delivery is not without its critics, with reports of consumer and restaurant boycotts. It is, therefore, time to take stock and consider the broader impacts of online food delivery, and what they mean for the stakeholders involved.

The objective of this study is to review the relevant literature on menu design in an attempt to identify its dimensions and effects on customers' restaurant experiences. Based on previous research, this review shows that menu design has four main dimensions: menu item position, menu item description, menu item label, and menu card characteristics. Furthermore, it is identified that menu design has potential for influencing the item-ordering behavior of restaurant customers. Menu design has two dimensions that have considerable effects on customers' menu item perceptions in four domains including value, quality, healthfulness, and taste.

 Keywords: online food delivery (online food delivery); sustainability; economic impacts; social impacts; environmental impacts

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INTRODUCTION

The world today is living in the Digital Age, a time when new technologies characterize what is definitely one of the biggest revolutions of all times. It is in this age that the use of the computer has continuously eased the day-to-day activities of the human being. With the advent of the internet, communication and trading have become fast, cheap, easy and efficient . The World Wide Web has transformed the massive earth into a global village. Today, one can easily order food items from far away places at the comfort of their office or living room, thousands of miles away, just with the click of a mouse. This process of trading over the internet is generally referred to as electronic commerce or e-commerce in short . The Electronic commerce or e-Commerce as it is known today evolved as businesses (end to end process) started to shift from the real time market to the digital market .

PROBLEM STATEMENT

- Typically a restaurant food order process involves several steps for ordering the food where firstly the customer starts from browsing the paper based menu and then informs the waiter for ordering items.
- Usually the process requires that the customer has to be seated before starting.
- The user has to wait idle for the food to be prepared for nearly 15-20 minutes.
- Even the waiter has to manually say the order and there is some chances of manual errors in hearing,or speaking
- It requires the customers presence in the restaurant in their busy schedule.

OBJECTIVES

- The main objective of the restaurant is to provide good customer experience and provide the service of enjoying food at the comfort of the customers house.It also allows the customer to order a wide variety of food items from different branches of the restaurant.
- The main objective is to manage the details of Items, Food quantities, Delivery Address,Shipping Cart,total amount ,Payment options,Order ID.
- It manages all the information about Item Category, Customer, Shopping Cart, Item description.

LITERATURE REVIEW

Existing Food Order Process

1. FULL SERVICE RESTAURANT: Traditional food order process used in most full-service restaurants starting when a waiter brought the guests the paper-based menu, and then waiting for the guests to choose items from the menu and inform the waiter the order items. The process typically required the guests to be seated in the restaurant and a waiter to assist the ordering .One of the most widely used food ordering systems is the conventional paper based system. In this system all records are stored on paper. The main drawback of this system is papers can get easily lost or damaged. There is also wastage of money, time and paper. Paper-based systems do not provide any form of dynamicity. Even a small change requires the re-print of the entire menu-card. Also large amounts of human effort are required, this system does not work properly because it has some errors and from a customer's point of view it is time consuming.

2. SELF SERVICE RESTAURANT: This process required the guests to place an order at the service counter in the restaurant. The guests shall have a decision in advance, before presented at the counter, of which menu items to order. Menu catalog is mostly presented as posters placed behind the order counter.

3. AUTOMATED FOOD ORDERING SYSTEM: In order to reduce service cost and enhance customer experiences, few restaurants have invested in the service automation system. The automation system used to capture the food order from guests ranged in many forms but mostly consisted of an electronic device with a screen presenting the menu and accepting the user's input for order placing First waiter takes the order from the customer. After taking the order, the waiter should enter that order in the system where the PC was set up. At the kitchen information was displayed on screen. The kitchen staff would then prepare the dishes according to order and after completion of order they would inform the waiter, who collected and delivered the dishes to the respective tables. The system was also informing the waiter about the availability of a dish. If a certain dish was not available then the waiter was able to ask for changes or even cancel a customer's order. After serving the order, a bill was generated at the cash counter as per customer order. The management had full

authority to access all details of the customer which are fed into the system. With the improvement in computer and communication technology, various systems were launched in the market for the purpose of computerization of the food ordering system.

4. MULTITOUCH TECHNOLOGY: Multi-touch technology is an advanced version to the existing touch technology where the user has authority to control and perform operations concurrently on the electronic visual displays using multiple fingers inputs. Large displays such as from the tabletop and the wallscreen are deemed to be essentials for information visualization purposes when dealing with multiple users sharing the same display. It is reported that the social interaction is highly improved among users using a shared display and input. But there are certain limitations of the multi-touchable restaurant management systems. Touch screens available in the market are of capacitive, resistive types which are very costly. Limitations of capacitive touch screens are not able to operate with stylus until it is of conductive material. One more disadvantage of a capacitive touch screen is it is expensive, offers less durability and short life. The drawbacks of a resistive touch screen include its inability to support multi-touch gestures, its poor visibility in direct sunlight and its less durability. The technology can be susceptible to data-noise, it may be affected by large amounts of dirt and dust in the environment.

METHODOLOGY

The following are the software requirements

Ø Sublime Text https://www.sublimetext.com/3

Ø Xampp https://www.apachefriends.org/download.html

Ø Any Web Browser like :-https://www.microsoft.com/

Clone   the   repository   from   this   repository
https://github.com/Shreemas/Web_Developement_Red_ChilliZ.git

And follow the steps which is mentioned below:

INSTALLATION AND WORKING

1. Clone the repository into C:/xampp/htdocs/["folder-name"].
2. Download xampp server from https://www.apachefriends.org/download.html
3. Install xampp server into the device.
4. Goto search and type "xampp control panel" and start the Apache and MySql server.
5. Open the web editor and type "localhost/["folder-name"]/
6. If you are a member then press the "Sign In" button if you want to join then click the "Become a member" button and fill in the proper credentials.
7. You will now be redirected to the dashboard page.

If u have some work you want done goto the POST page if you want to try your skills then goto the SEARCH page and continue on this website.

A setup to the database:

1. Click on the admin button under MySql in the xampp control panel.
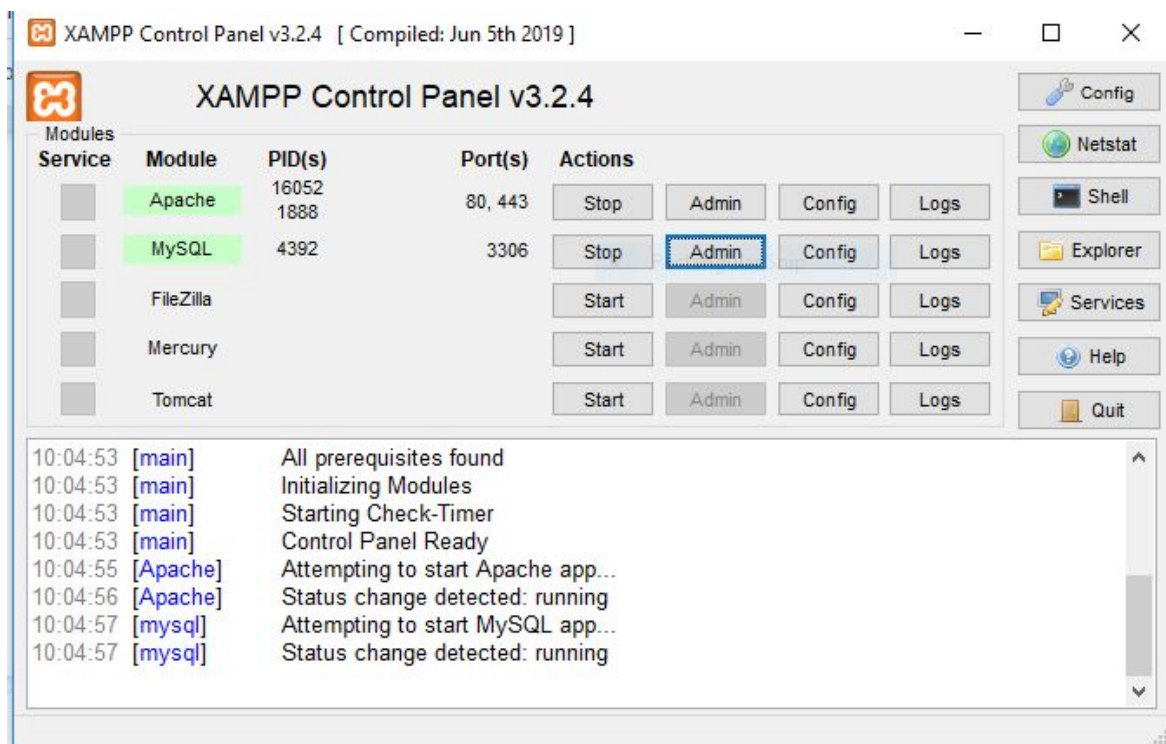
2. Now click on Databases and type the database name as "foodorder" and click the create button.

Databases

🗄 Create database ⓘ

| foodorder | utf8mb4_general_ci ▾ | Create |

3. Now import foodorder.sql from C:/xampp/htdocs/["folder-name"]/database/foodorder.sql and click GO.

Importing into the database "foodorder1"

File to import:

File may be compressed (gzip, bzip2, zip) or uncompressed.
A compressed file's name must end in **.[format].[compression]**. Example: **.sql.zip**

Browse your computer: | Choose File | foodorder.sql   (Max: 40MiB)

You may also drag and drop a file on any page.

Character set of the file: utf-8 ▾

4. This will complete the setup of your database and you are ready to go, database as:-

USE CASE DIAGRAM
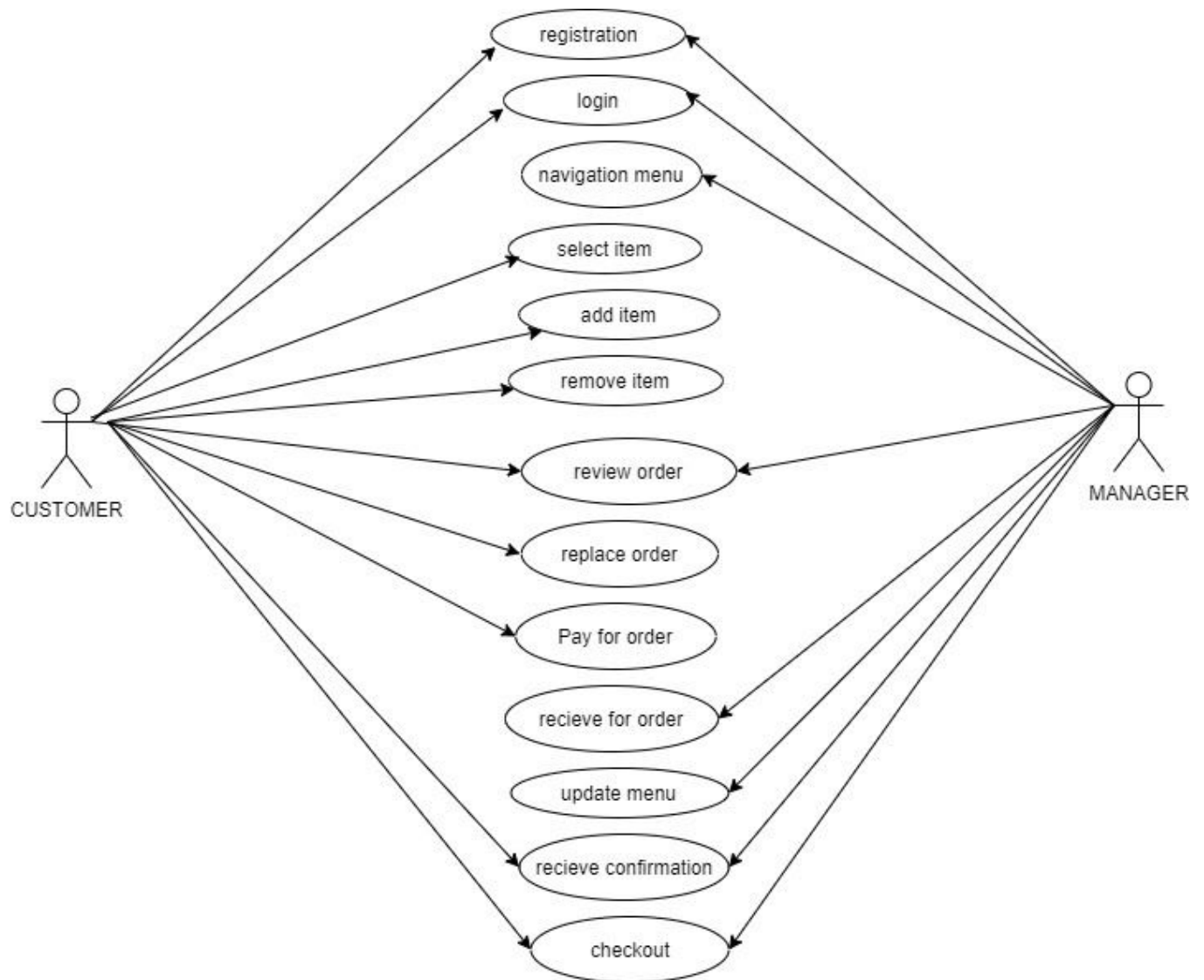
ER DIAGRAM
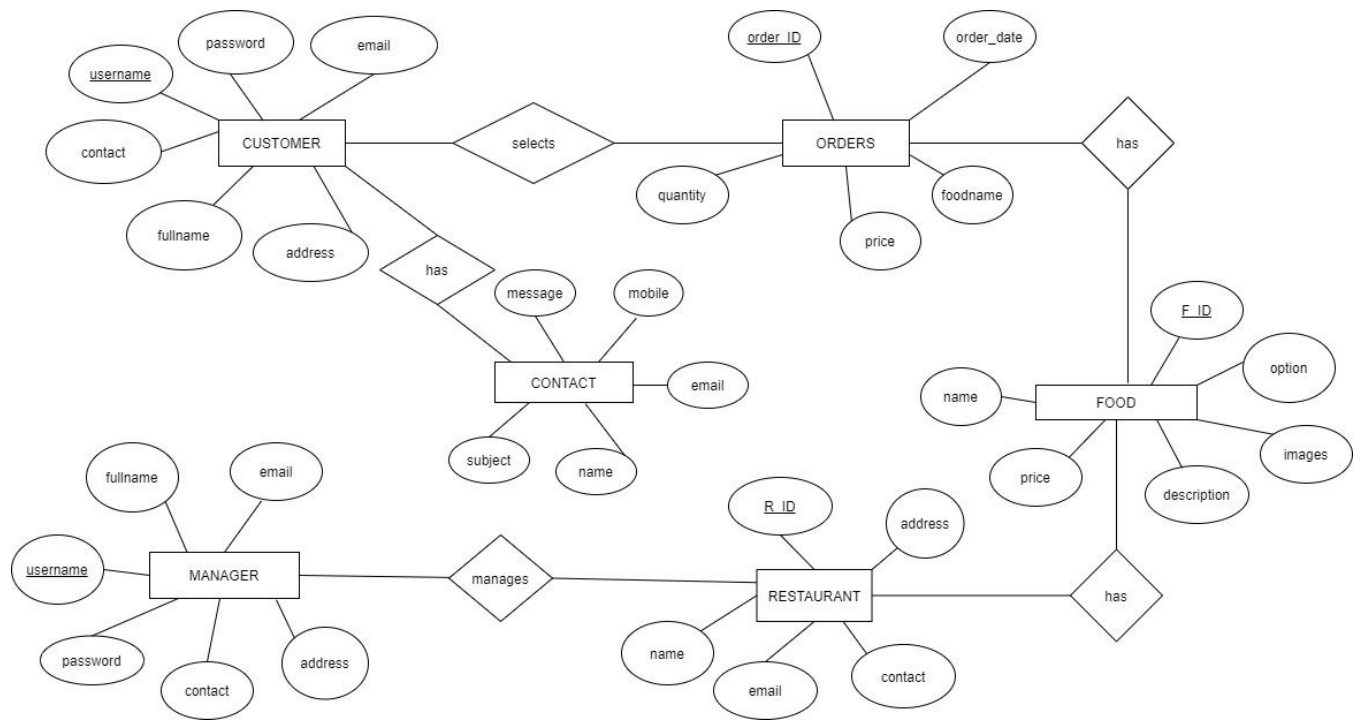
IMPLEMENTATION

Tech Stacks used:-

<u>FRONT END:</u>

1. HTML5
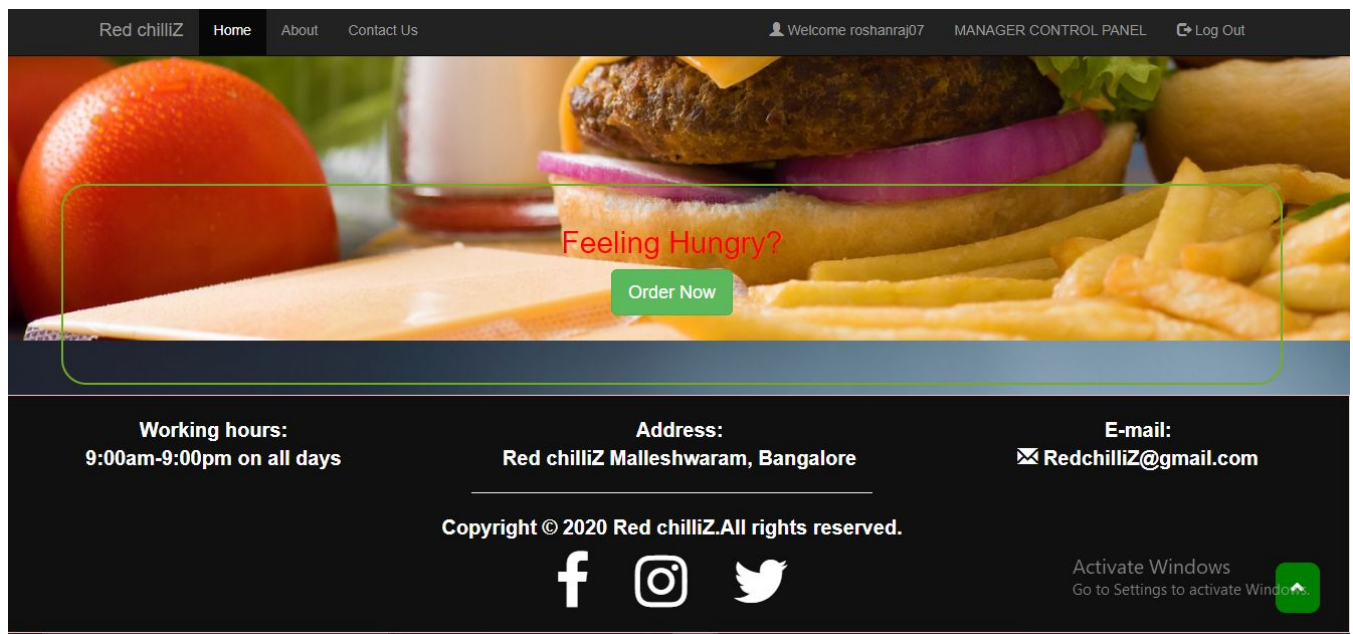2. CSS3
3. Javascript
4. Bootstrap

<u>BACK END:</u>

● PHP
● XAMPP Server
● MySQL database and PHP programming language.
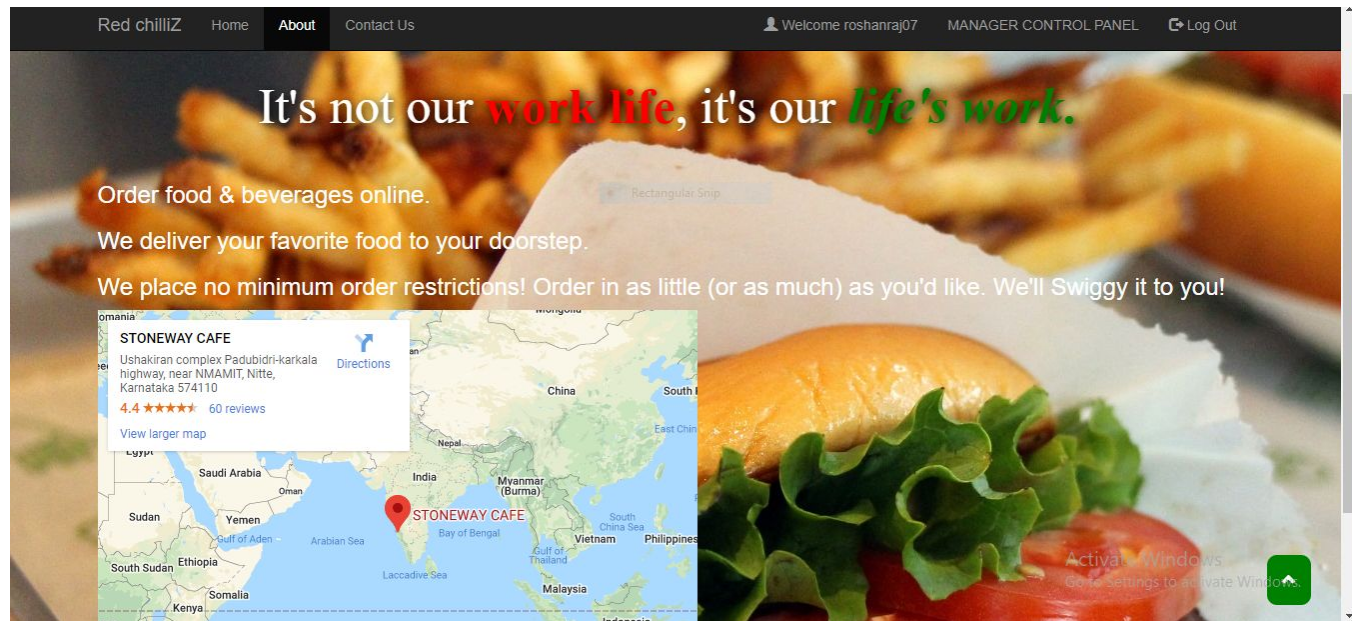
Few images of our website
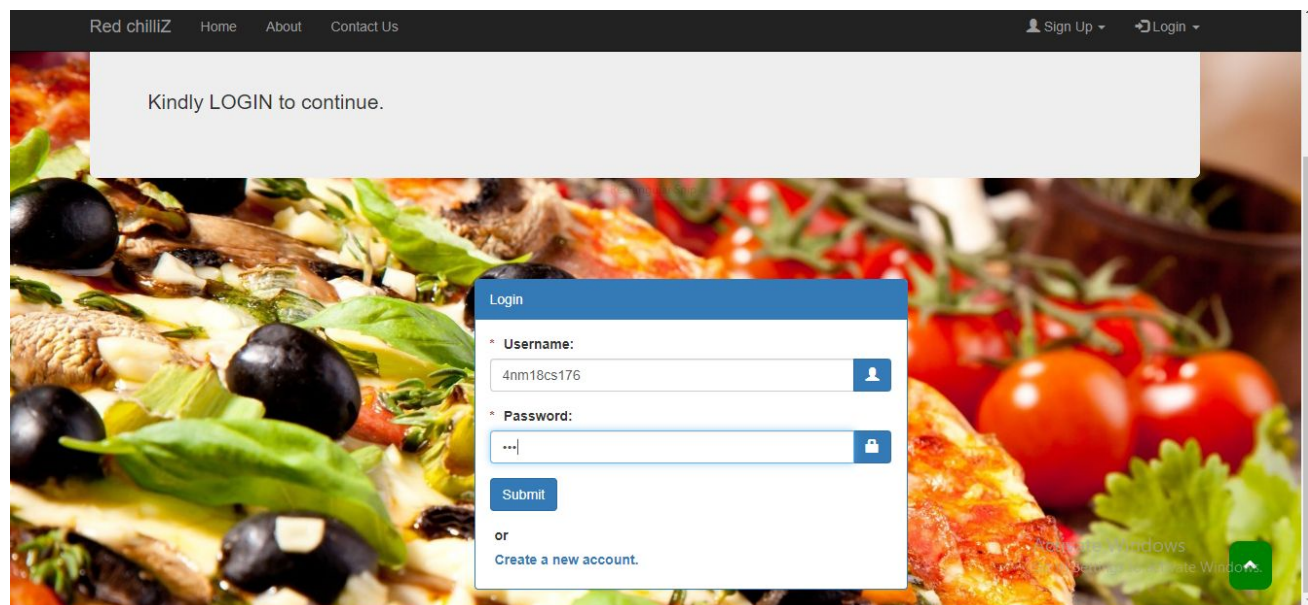
1) Home page-Navbar and Logo.
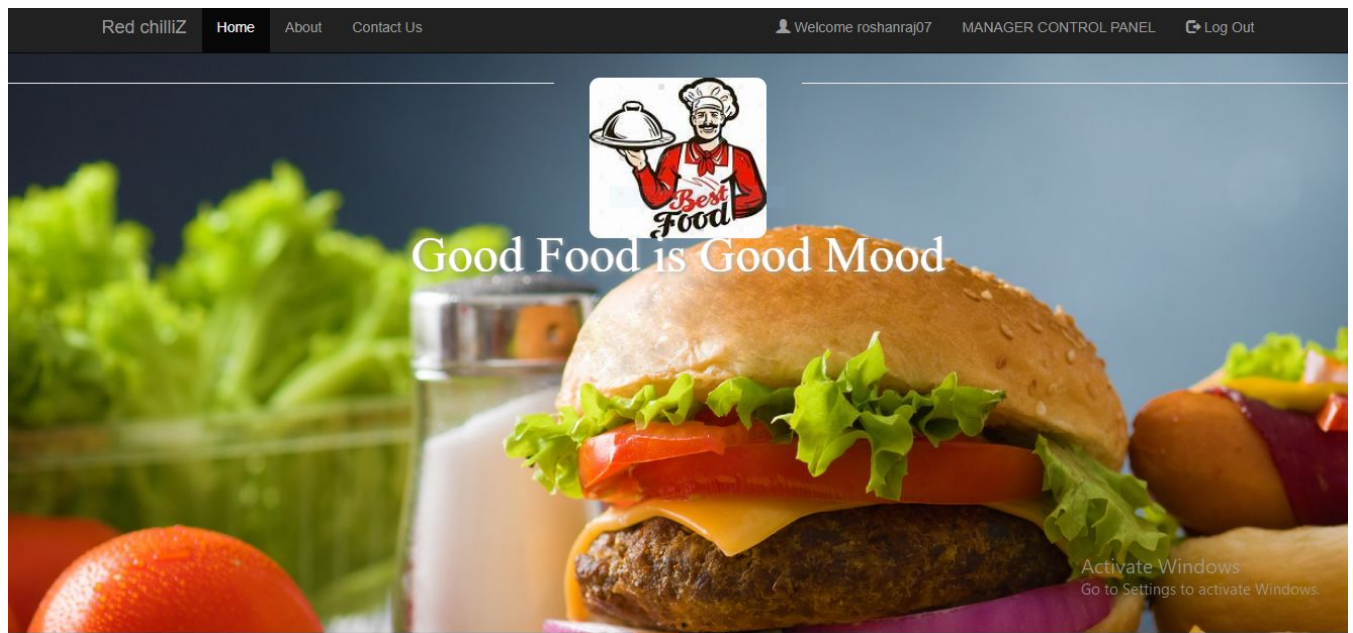
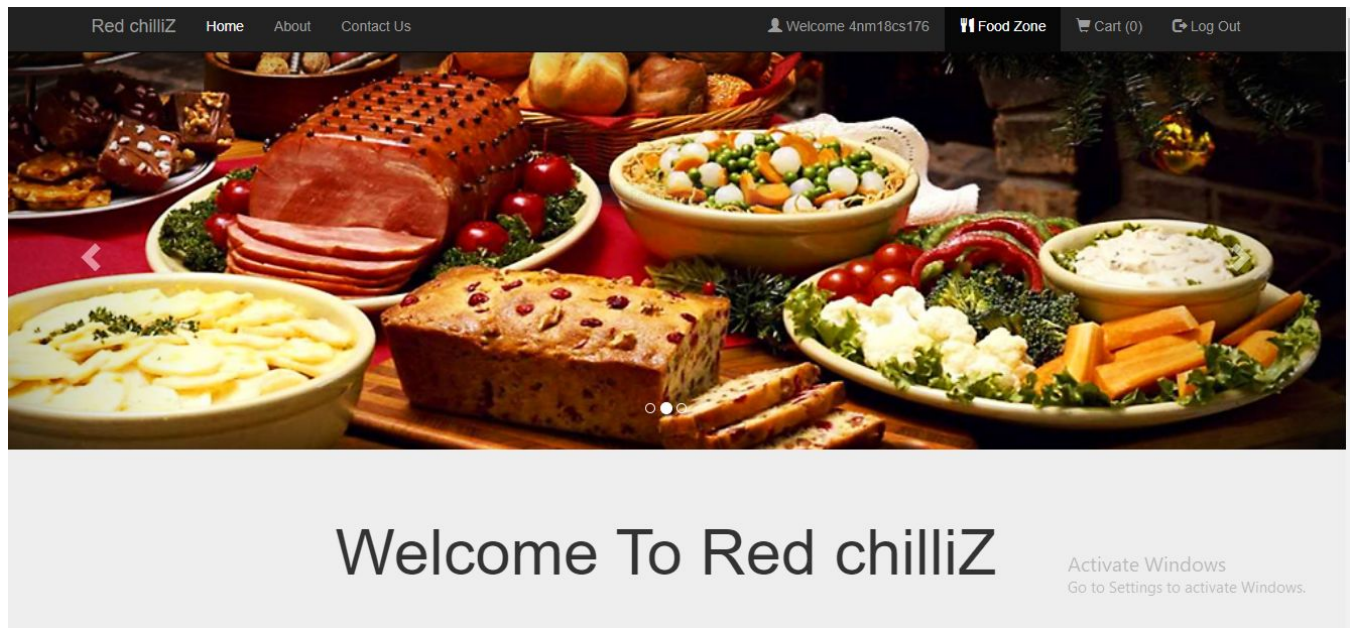=Home Footer with glyphicons and chevron-up arrow mark
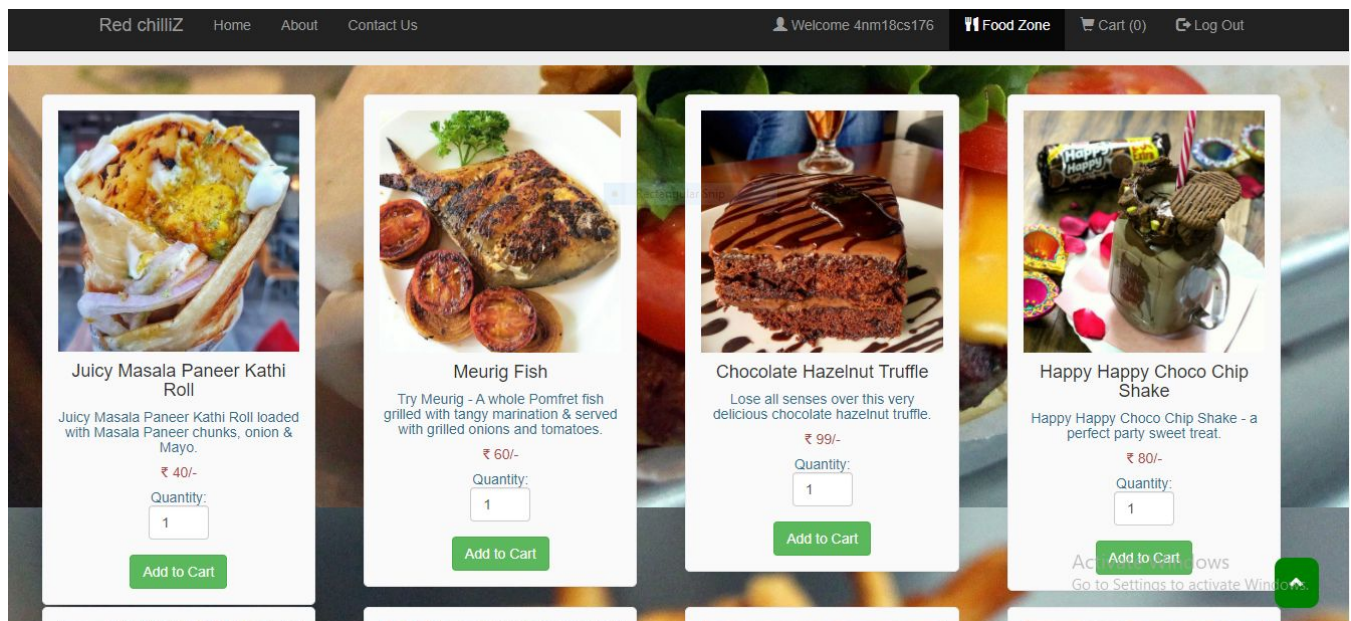

2) About with location on map
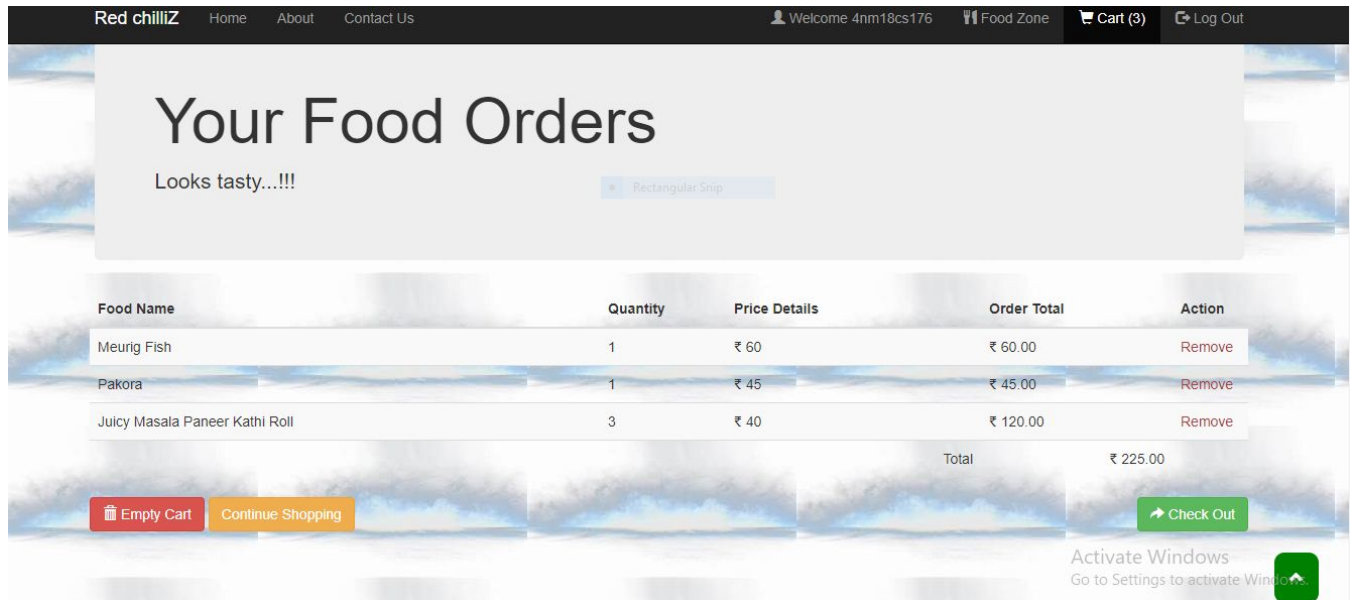
3) User login Page

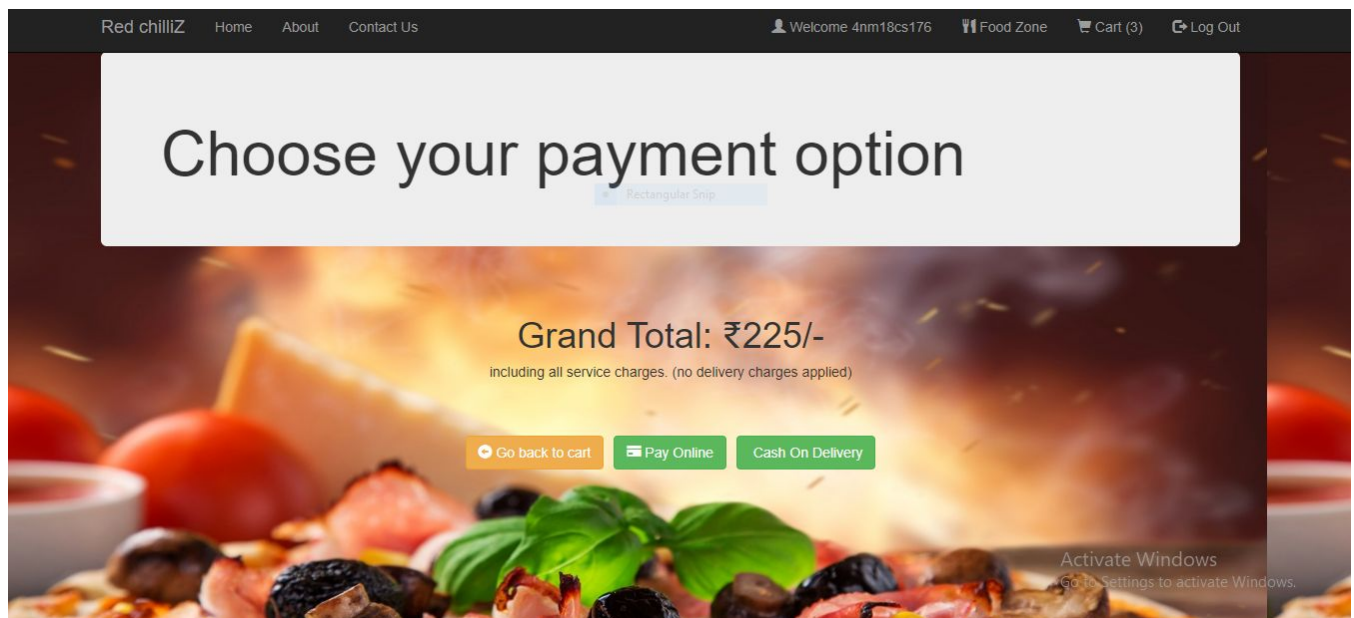4) User's Home Page after logging in.

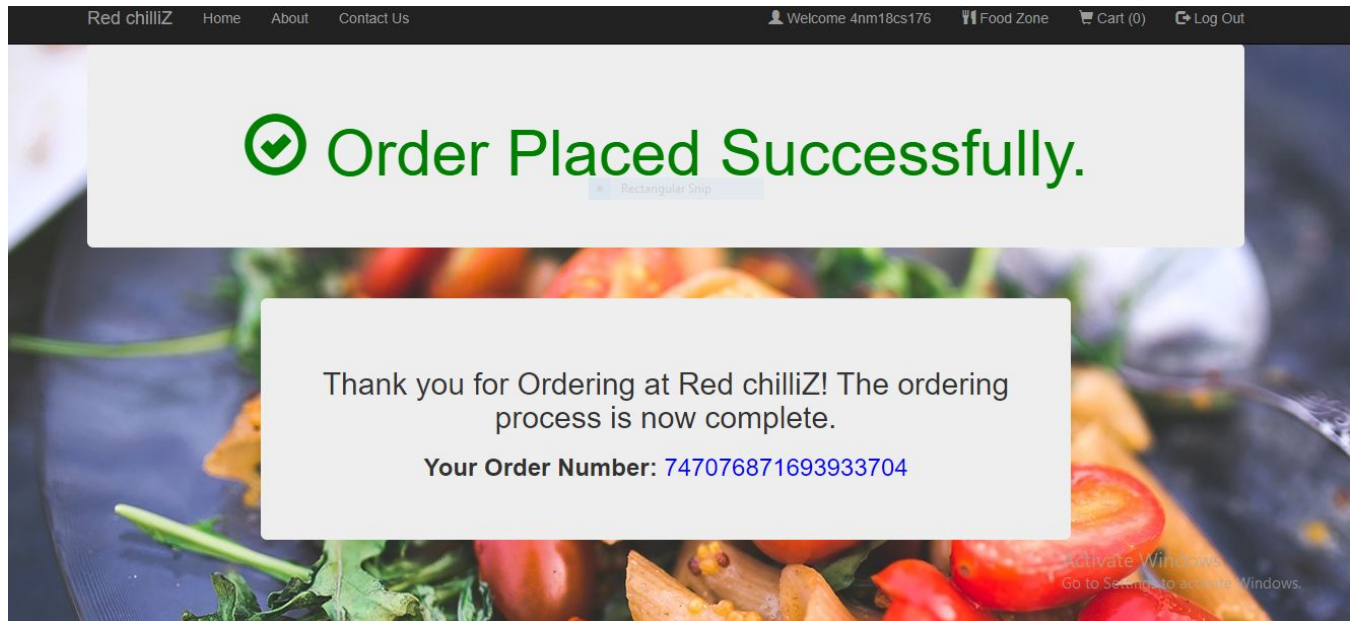5) Food list view to order food items.

7) Food ordering Cart ready to be updated with respective quantities ,amount to be paid ,or even empty the cart and checkout for payment.

8) Payment options-Cash and Online Payment Option or going back to the cart.
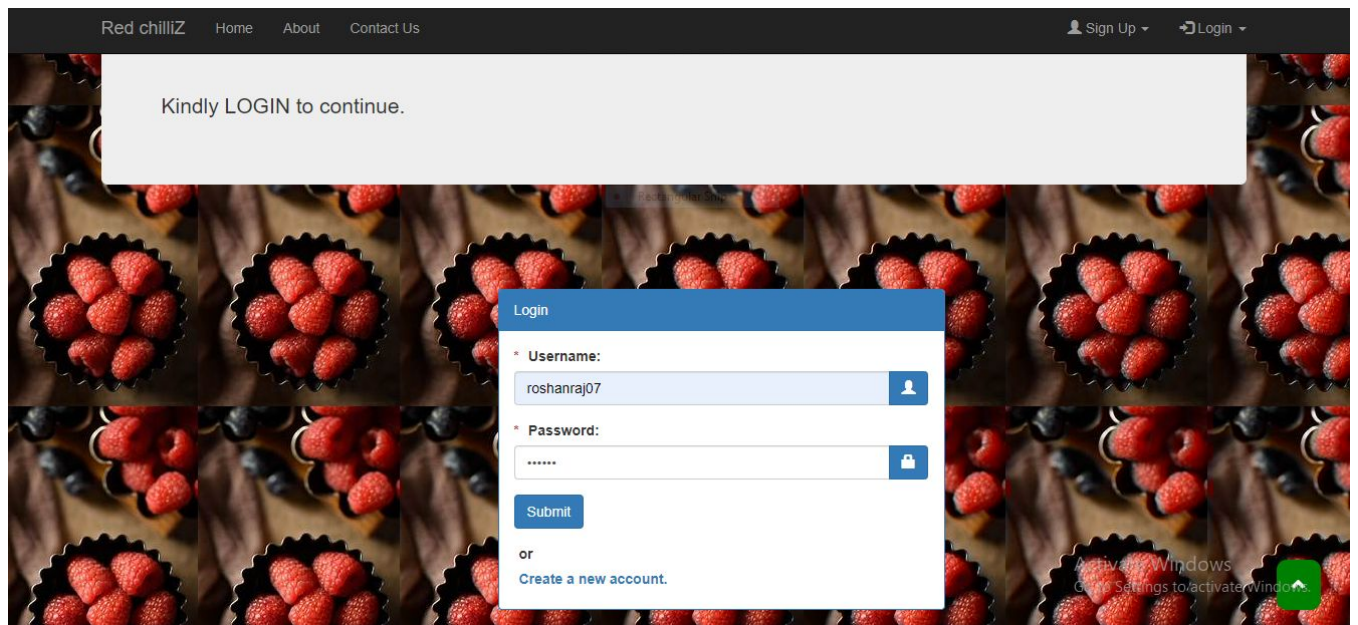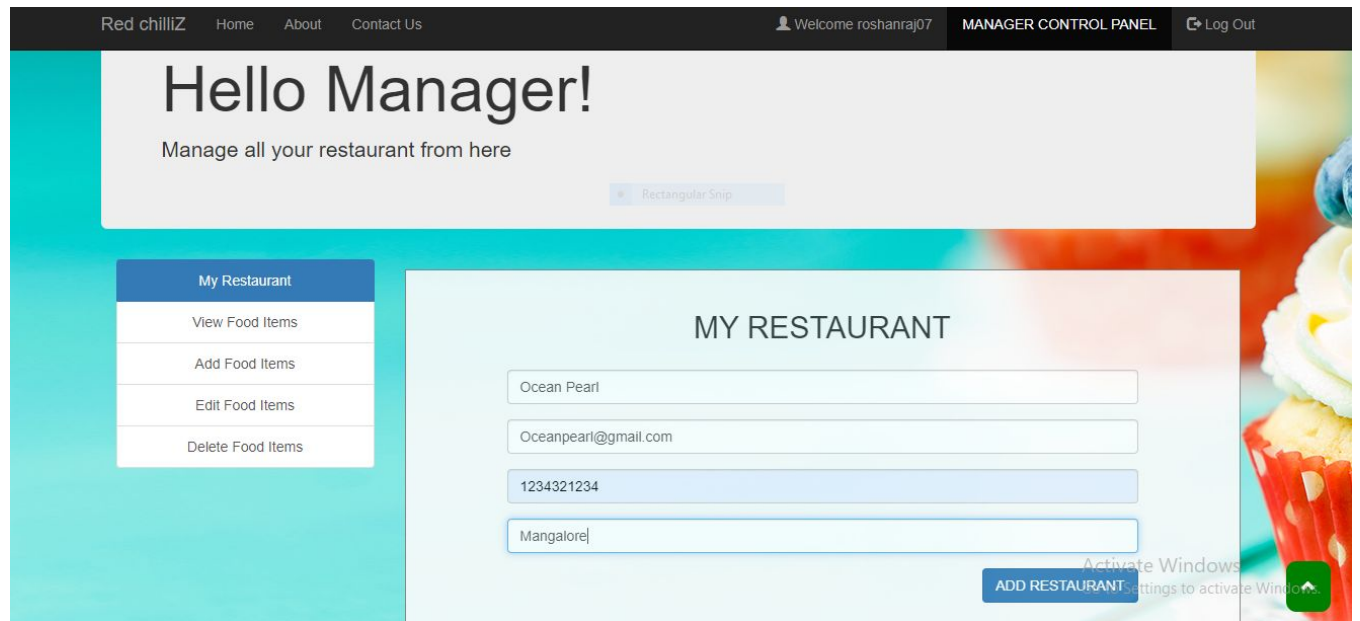
9) Order placed details with 18 digit order ID.

(Manager registration UI is similar to User registration).

10) Manager login

11) Manger my_restaurant Details

12) Food items edit

13) Add new food

Red chilliZ   Home   About   Contact Us   👤 Welcome roshanraj07   **MANAGER CONTROL PANEL**   🔁 Log Out

Manage all your restaurant from here

| My Restaurant |
| **Add Food Items** |
| Edit Food Items |
| Delete Food Items |

ADD NEW FOOD ITEM HERE

Your Food name

Your Food Price (INR)

Your Food Description

Your Food Image Path [images/<filename>.<extention>]

ADD FOOD

Activate Windows
Go to Settings to activate Windows.

14) Managers can delete food items.

Red chilliZ   Home   About   Contact Us   👤 Welcome roshanraj07   **MANAGER CONTROL PANEL**   🔁 Log Out

View Order Details

		Fish		marination & served with grilled onions and tomatoes.	
☐	62	Spring Rolls	65	Delicious Spring Rolls by Dragon Hut, Delhi. Order now!!!	2
☐	69	Coffee	25	concentrated coffee made by forcing pressurized water through finely ground coffee beans.	2
☐	70	Tea	20	The simple elixir of tea is of our natural world.	2
☐	71	Samosa	40	Cocktail Crispy Samosa..	2
☐	72	Paneer Pakora	45	it gives whole new dimension even to the most boring or dull vegetable	2
☐	73	Puff	35	Vegetable Puff, a snack with crisp-n-flaky outer layer and mixed vegetables stuffing	2
☐	77	Pizza	300	Pure	2
☐	78	French Fries	75	Pure Veg and Tasty.	2
☐	79	Pakora	45	TASTY	2

Activate Windows
Go to Settings to activate Windows.

DELETE

15) Food ordered list

Restaurant Website

YOUR FOOD ORDER LIST

	Order ID	Food ID	Order Date	Food Name	Price	Quantity	Customer
>	10	59	2019-03-05	Meurig Fish	60	1	ckumar
>	28	59	2019-03-05	Meurig Fish	60	1	birju
>	26	59	2019-03-05	Meurig Fish	60	6	birju
>	23	62	2019-03-05	Spring Rolls	65	1	birju
>	21	62	2019-03-05	Spring Rolls	65	1	birju
>	18	59	2019-03-05	Meurig Fish	60	5	birju
>	13	59	2019-03-05	Meurig Fish	60	4	ckumar
>	40	73	2019-03-15	Puff	35	1	ckumar
>	39	78	2019-03-15	French Fries	75	1	ckumar
>	38	78	2019-03-15	French Fries	75	7	ckumar
>	37	72	2019-03-15	Paneer Pakora	45	6	ckumar

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RESULT AND DISCUSSION

. The result of our system application includes a Web-based food ordering application.

User:

- It provides users an online mode of viewing the menu ,with respective pictures and short description of the dish provided after they have signed in and logged in successfully.
- The customer can view the price and decide the number of quantities he/she wants and put it into the cart.
- Then as per their choice ,they can even remove the dish from the cart and it will be updated in the total amount to be paid.
- The total amount is calculated every time a person adds a food item into the cart.

Manager:

- It provides managers of different branches of Red chilliZ to add food items to the menu , delete food items , edit the cost or description of food items , view food items from their branch and view the order details of the food items from their branch.
- If a new branch is opened , the manager of that branch should first add that branch to the restaurant and later he/she can add food items to the menu , delete food items , edit the cost or description of food items , view food items from their branch and view the order details of the food items from their branch.

• PAYMENT OPTIONS :

- ❖ CREDIT CARD option where you need to input the 16 digit card number ,CVV 3 digit number ,expiry date and the name of the card holder .Then when you proceed it goes to which creates dummy confirmation of the project booking.

❖ CASH ON DELIVERY option is also available.

- Once a customer places an order,he/she will get the order number on the screen dynamically.
- We have developed the system application in such a way that the customer can order the food first and then enter the required credentials for payment while checkout.
- The customer can provide feedback about the restaurant in the CONTACT US form.

CONCLUSION AND FUTURE SCOPE

- This project has been done in PHP but better tech stack like NodeJS for backend and ReactJS for frontend can be used.
- With a private login system, customers can view and make orders and receive updates in real-time and get order numbers from the smartphone itself.
- Our experience in developing digital restaurants shows the capabilities of wireless communication and smartphone technology in fulfilling and improving business management and service delivery.
- Using the machine learning recommendations ,we can give the best food preferences based on the requirements for the customers.
- The menu can also provide nutritional benefits per quantity of food ordered.
- Based on the search history we can use Artificial intelligence ,and using cookies ,we can recommend advertisements of the restaurants to the customers.
- We can make auto detection of nearby restaurants and auto fill the details of the restaurant using the live GPS location in order to reduce manual errors in typing the details.

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