

The Online Food Ordering System

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Abstract: *The net Food Ordering System delineated during this paper has been designed to fill a particular niche within the market by providing little restaurants with the power to supply their customers a web ordering possibility while not having to speculate giant amounts of your time and cash in having custom software system designed particularly for them. The extremely customizable system permits the building workers to simply manage the positioning content, most significantly the menu, themselves through an intuitive graphical interface. The website, which is the sole element seen by the building customers, is then designed dynamically to support the present state of the system, thus any changes created square measure mirrored in real-time. Guests to the current website, once registered, square measure then able to simply navigate this menu, add food things to their order, and specify delivery choices with solely some clicks, greatly simplifying the ordering method. Back within the building, placed orders square measure promptly retrieved and displayed in a simply decipherable format for the economical process. This abstract aims to supply in-depth descriptions of the style and implementation details of the system, additionally with descriptions of all offered practicality and plans for evolution. Additionally, user manuals and troubleshooting tips are enclosed for all three parts to allow the reader a transparent plan of supposed typical use cases for the system.*

Keywords: Django, Database, Online food Ordering System, Restaurants.

I. INTRODUCTION

It is better known globally that, in today's market, it is very tough to begin a brand-new small-scale business and live through the competition from the well-established and settled house owners. In a quick-paced time nowadays, once most are squeezed for time, the bulk of individual area unit fussy once it involves putting a food order. the shoppers nowadays do not seem to be solely attracted as a result of putting Associate in Nursing order on-line is extremely convenient however additionally as a result of, they need visibility into the things offered, worth and intensely simplified navigation for the order. The online ordering system that I am proposing here greatly simplifies the ordering method for each client and therefore the eating house. The system presents an Associate in nursing interactive and up-to-date menu with all accessible choices in a straightforward use manner. The client will opt for one or a lot of things to put Associate in nursing order which can land within the Cart. The client will read all the order details within the cart before looking. In the end, the client gets order confirmation details. Once the order is placed it is entered within the information and retrieved in just about real-time. These permits eating at house workers to quickly bear the orders as they are received, and method all orders with efficiency and effectiveness with bottom delays and confusion. Nowadays it is usually better-known by the planet because it is very enjoying a significant role with many of us as they interested in eating outside foods and not having time for making ready the house food because of their busy Jobs and Schedules. In online Food Ordering, we can see folks order from differing types of Restaurants from completely different localities to locations. So, in this, it is found, Lilliputian business and in-depth business wherever there is plenty of competition with one another, it very makes tough to Lilliputian business because of in-depth business of long-standing and settled house owners. During this stride technology of life, folks like Customers area unit largely allured and like the web food as per their convenience. The planned work extremely clarifies the interaction between the Admin, Customer, Restaurant, and Delivery. The website shows connected updates from time to time with all accessible decisions that area unit simple to use for everybody. From the menu, Customers will choose what they require to eat, and wherever they will add as several as wish to the cart before ordering the things. Once Customers added {the things to the Cart ought to do the

check as your handpicked items area unit visible there once you are finished your checkout can you will you may} get the confirmation details and everyone your details will enter the information and fetch in the period. This to eating at house employees right away realize the orders from Customers and proceed with the orders flexibly and with success.

II. LITERATURE SURVEY

In this paper it has been planned that the way to improve the management of food delivery services and pay attention to customers' databases and it is developed from the edifice management system to induce the services with efficiency from the users of the system, providing numerous facilities. Restaurants yet as a multitude facility square measure enclosed during this. So, with the assistance of automaton smartphones and tablets, we can simply direct and operate the appliance for his or her orders. This application conjointly helps the admin with the client's needs [1].

Investigate the biological process of food quality and site characteristics of restaurants associate agent-based online-to-offline food ordering model (AOFOM) has been planned that consists of three sorts of agents, specifically customers, restaurants, and therefore the online food ordering system. it has conjointly been evaluated the small print of fine restaurants, obtain the various delivery classes supported the food quality and call concerning the placement of restaurants. edifice agents conjointly give takeaway food associated pursue appropriate food quality and site methods mistreatment an estimation and improvement mechanism [2].

The food business is very effortful and therefore the biggest expense during this is to search out the proper reasonable individuals to try to do the work of food things within the business. During this analysis work the work done by humans and conjointly work done by machines mistreatment trendy technologies are enforced, wherever expenses are often saved by the business by deducting the human reasonable job. The e-menu card is employed to create associate orders for the food and avoid the hassles of looking forward to the order to be taken by the client [3]. Nowadays, GPS (Global positioning system) fetches the locations offered by sensible devices like smartphones, tablets, and computers being employed. Here, scrutiny of customers, cooks, and waiters with the assistance of humans could be a long and manual task, thus during this work wireless technology and going with the net mode are used. It saves time and their day-after-day staple items. The necessity for symptom GPS-based services with alternative vital sectors of the economy, like retail and therefore the building business, is that they would like of the fast-becoming world [4].

An online ordering system has been planned that simplifies the ordering method for each client and therefore the edifice. The system presents an associate interactive associated up-to-date menu will-out their choices in an easy-to-use manner. The languages used square measure JavaScript, JSP, HTML, and Java at the client-facing, whereas Oracle info at the back end. this enables the individuals to instantly order the things they have, and therefore the orders square measure received and processed with efficiency and effectively while not having stripped-down delays and confusion for the purchasers [5].

Nowadays, social media has become one of the foremost powerful platforms. In gift generation, this one amongst the explanations for increasing online media consumption thus that's ancient media consumption declining, and online media consumption is growing, thus during this case, businesses got to modification their manner of operative and implement the net business ways by edifice firms and giving created to Order (MTO) food while not a physical store [6].

The discussion concerning the impact of COVID on the food delivery business is like however, the pandemic competes for a dram atic role in everyone's lives and work, which during this situation, everybody most popular the net mode. The ordering happens online yet offline, however online gets preference. So, in this, they need to use the first yet as a secondary supply of knowledge to induce a transparent image of the matter within the online food delivery services [7]. It has been planned that Indian transnational edifice aggregators and food delivery firms like Swiggy and Zomato. In this, the format of home delivery or takeaway has gained lots of extra customers in locations like malls, offices, big-party orders for residential complexes, etc. It conjointly accesses trendy growth and is incredibly difficult for others which may create them convenient and accessible for all the purchasers WHO want to order frequently [8].

The website has been wonted to give many restaurants and chefs' kitchens listed with their menus consequently. thus, customers do not get to carry pamphlets and a menu list to order the food they have. They are calculable that for our food ordering convenience, merely clicking one button is ample, and they claim that by providing consistent and effective services to customers, innovation will grow with success [9].

III. PROPOSED WORK

The online ordering system works in an exceedingly easy manner. the subsequent area unit the piecemeal method utilized in the analysis work

1. Customers have an online application that they use to look at the menu of your edifice or different offered restaurants just in case of third-party platforms.
2. Customers realize an edifice of their feeling and choose the food they require to order
3. Customers ensure their orders.
4. The users then got to choose their payment option- either pay online or choose COD for their orders. These orders area unit received by the edifice via the admin panel.
5. The edifice processes the orders by making ready the meal and packaging the orders
6. The edifice contacts the delivery service or their personnel delivery workers and informs them concerning the orders via the driver's app.
7. The delivery personnel delivers the orders to the individual customers.

3.1 Offered Options

The projected system aims to develop a system of improved facilities. The projected system will overcome all the restrictions of the present system. The system provides correct security and reduces manual work.

1. Admin Panel
2. Client-Side
3. Online Food Ordering
4. Manage Food classes
5. Manage Food things
6. Food Order Management
7. Online Accommodation
8. Manage Rooms classes
9. Manage Customers
10. System User Management
11. Total Revenue
12. Overview information

The Online Food Ordering System deals with putting orders of food from varied restaurants. this technique involves the subsequent functionalities:

1. Aggregation Data: the information is collected from the client through the appliance.
2. Verification of Data: the information collected (food ordered) from the client is cross verified with the precise edifice for handiness.
3. Order Confirmation: The order is confirmed by causation a confirmation text to the client.
4. Client Analytics: supported orders placed in varied regions; suggestions of comparable restaurants are going to be given.
5. Client Feedback: the purchasers are going to be ready to rate their experiences, and advocate changes and enhancements to the present system.
6. Modes of Payment: Multiple modes of payment are going to be provided while making certain safe and secure online transactions.
7. Accommodation: Customers will book accommodation in varied hotels and resorts.

In this system, we tend to receive orders of food from customers, ensure them with the edifice, offer live following facilities and guarantee safe cash transactions. The system additionally provides the client the power of rating their expertise and suggesting enhancements.

IV. SYSTEM REQUIREMENTS

Software Design UI:	Bootstrap-based Web UI Kit	HTML5, CSS3, JS, jQuery, Node JS, Bootstrap, Grunt, Bower, SASS based solid framework.
Software Development Kit	PhpMyAdmin version: 5.0.4	OS: Windows7/8.1/10, Database Server: MySQL_V5.6.20, Web server Apache/2.4.10 (Win32), OpenSSL/1.0.1i PHP/5.5.15
Browser:	Chrome, Firefox	Latest Versions of Mobile Browsers with the latest updates

Desktop/Laptop:	OS: Windows 8 Minimum, Processor: Intel(R) Core (TM), i5-7400 CPU @ 3.00GHz, RAM: 4.00 GB, System type: 64-bit Operating System, X64-based processor, Full HD Display
Mobile:	Android Version: 4.4 KitKat higher, RAM: 3.00 GB, CPU: Octa-core Max 2.0GHz, Internal Storage: 6.00 GB, Mobile: Any Touch Mobile Accepted, Mobile Browser: MI Browser, Chrome, Firefox
Tablet:	RAM: 4 GB, Internal Storage: 128 GB, Processor: 2.30 GHz, Full HD Display, Wi-Fi+4G, Browser

Table 2: Hardware requirements

V. SYSTEM DESIGN

The System flow chart diagram is a graphical representation of the relation between all the major parts or steps of the system. A flow chart diagram cannot include minor parts of the system.

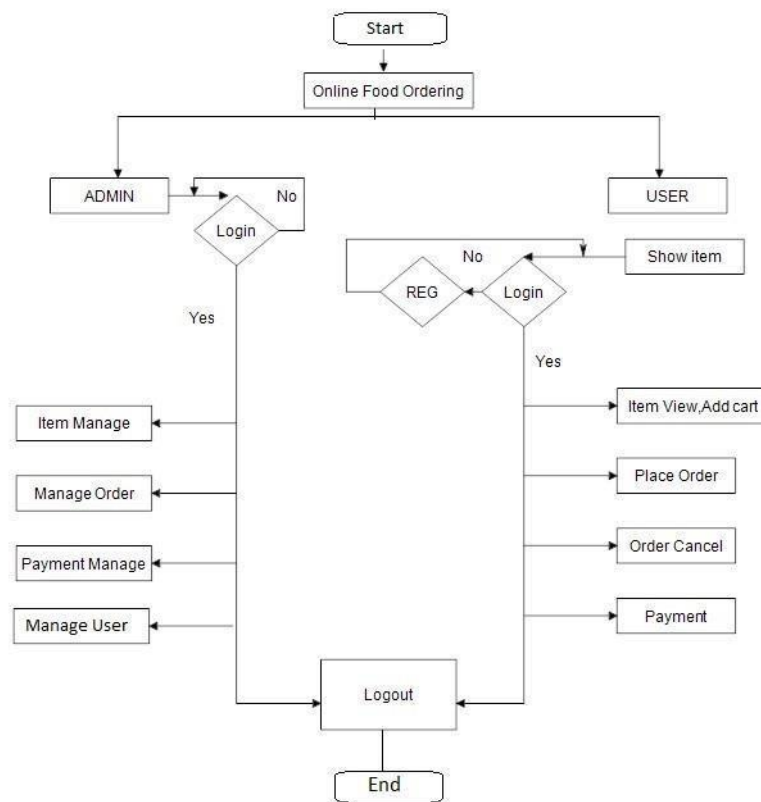


Figure 1: System flow chart

VI. RESULT AND DISCUSSION

6.1 User Interface

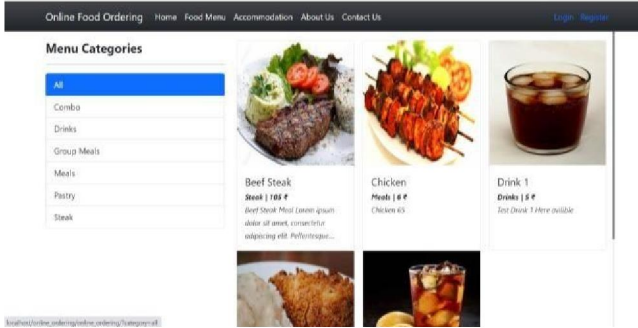


Figure 2(a): All types of menu Categories



Figure 2(b): Different types of menu categories

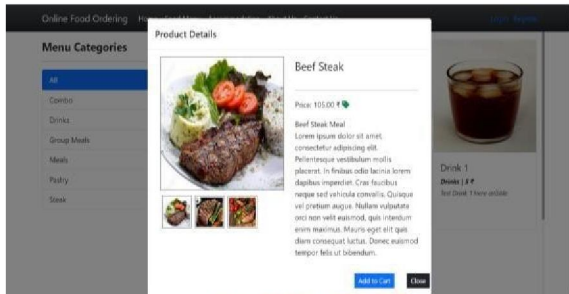


Figure 3(a): Product Details

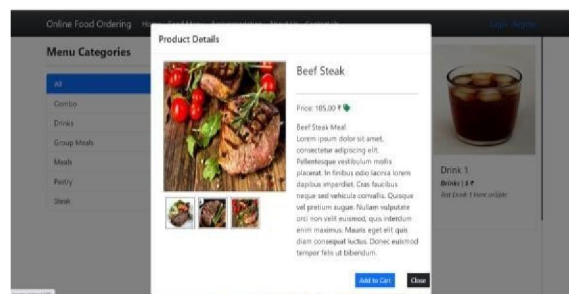


Figure 3(b): Product Details

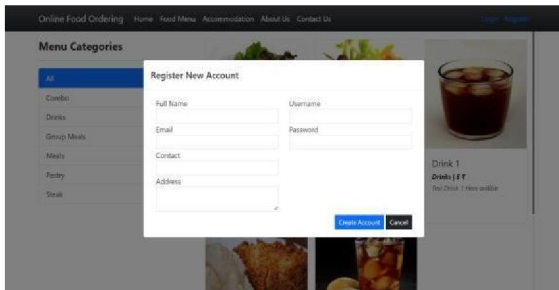


Figure 4(a): Register New Account

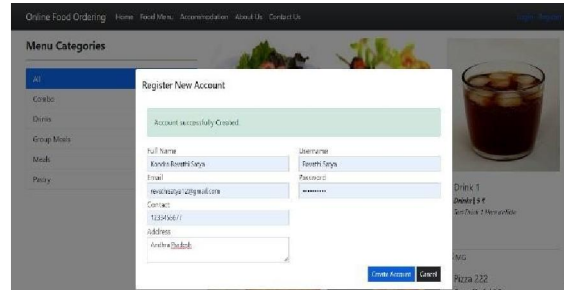


Figure 4(b): Account Created Successfully

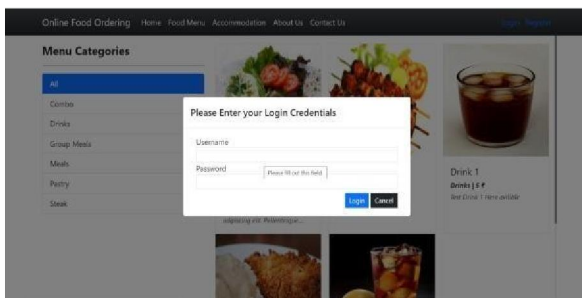


Figure 5(a): Login Credentials

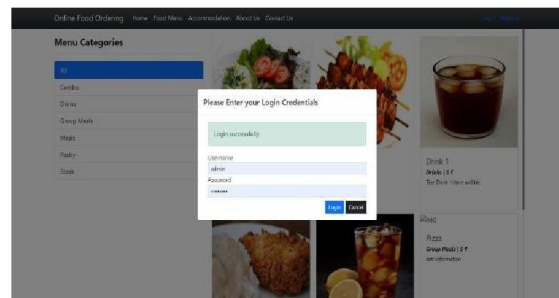


Figure 5(b): Login Successfully

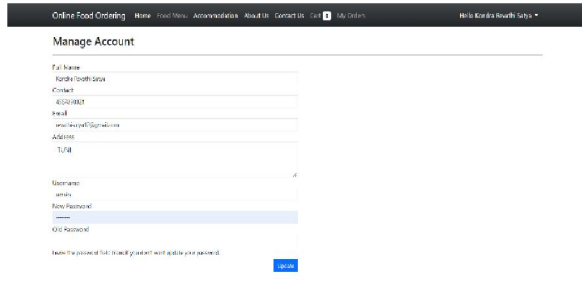


Figure 6(a): Manage Account

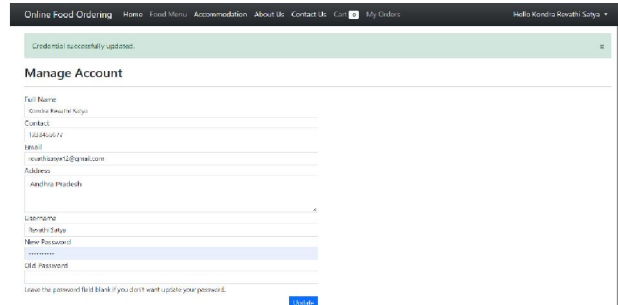


Figure 6(b): Credentials Successfully Updated

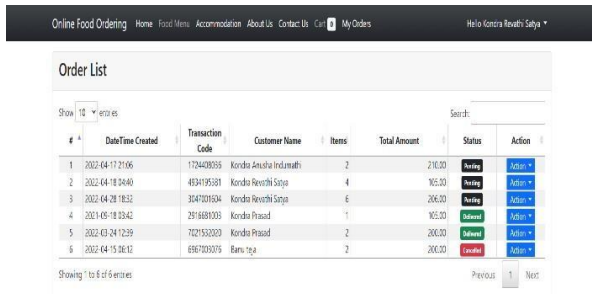


Figure 7(a): Order List

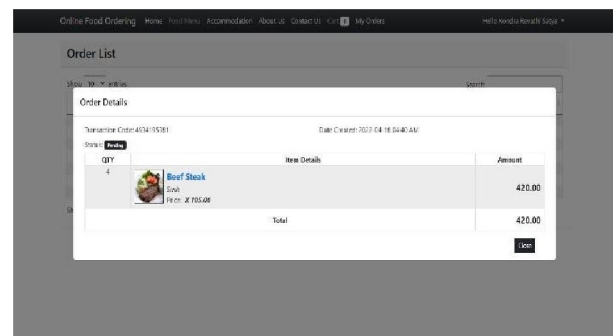


Figure 7(b): Order Details

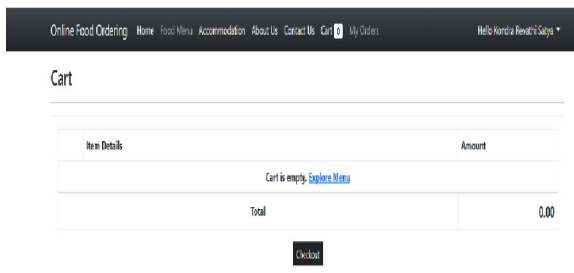


Figure 8(a): Empty Cart

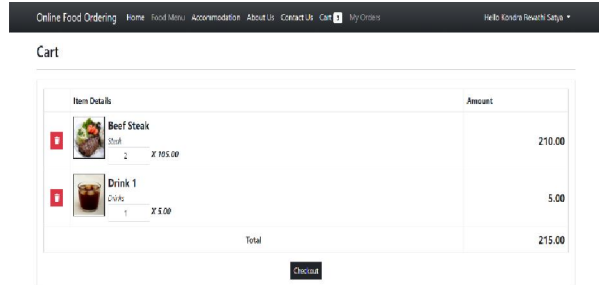


Figure 8(b): Cart Added

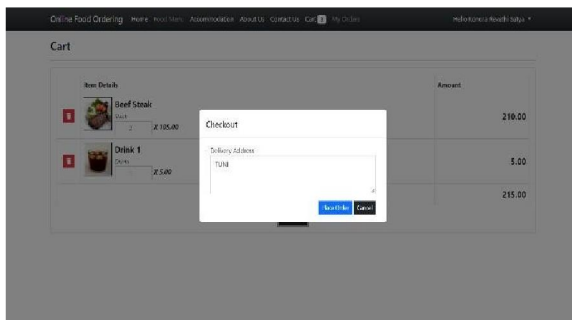


Figure 9(a): Place Order

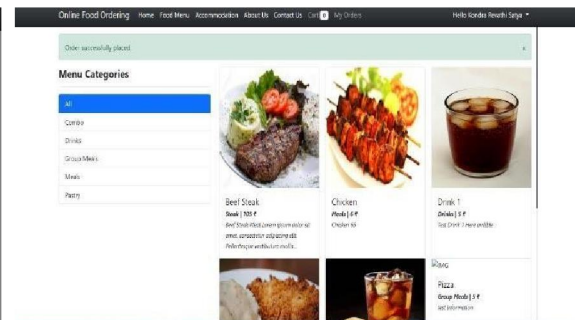


Figure 9(b): Order Placed Successfully

Admin Interface



Figure 10(a): Admin Login Portal



Figure 10(b): Admin Interface

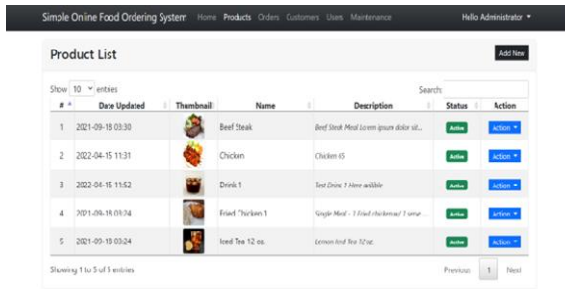


Figure 11(a): Product List

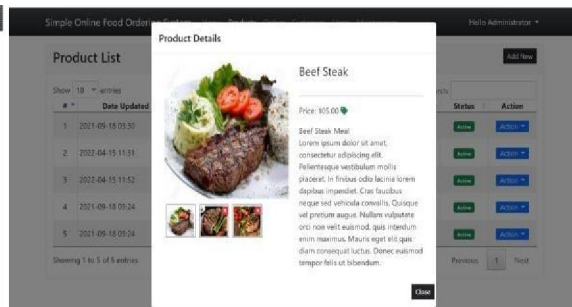


Figure 11(b): Product Details

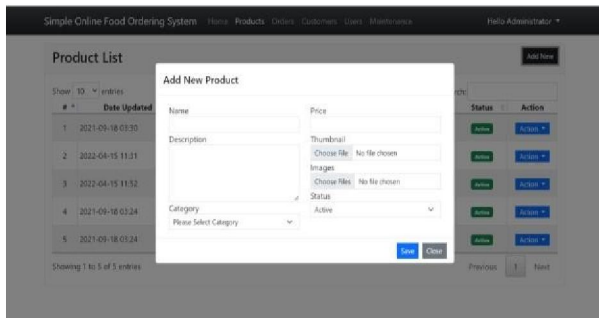


Figure 12(a): Manage Product List

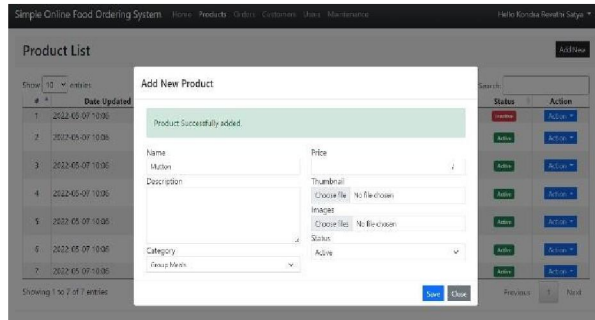


Figure 12(b): Managed Product Successfully

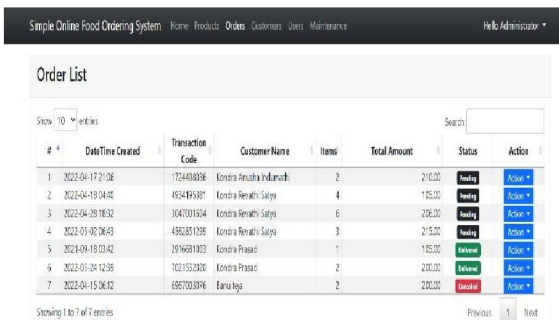


Figure 13(a): Order List

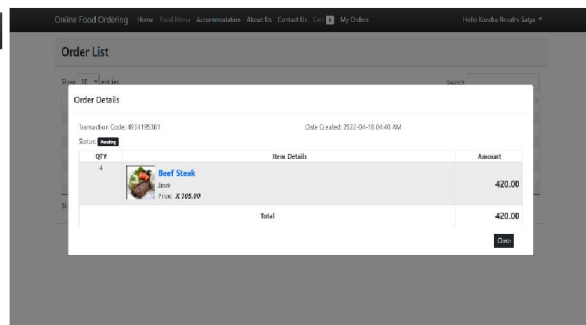


Figure 13(b): Order Details

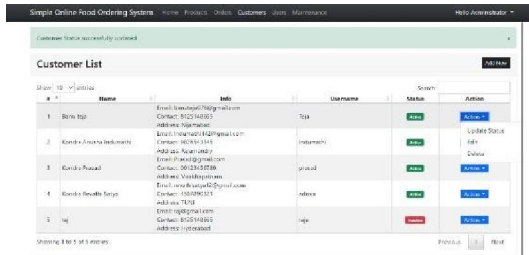


Figure 14(a): Customer List & New Customer added

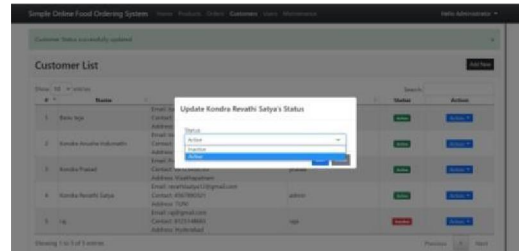


Figure 14(b): Customer Status updated successfully

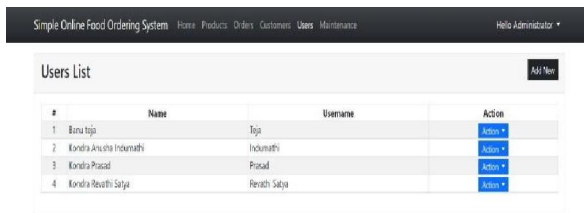


Figure 15(a): User List

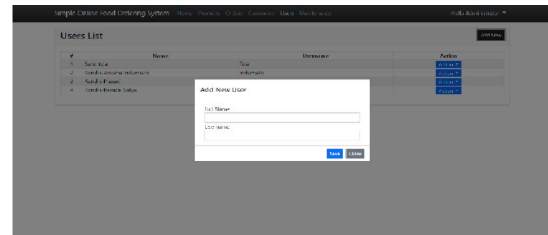


Figure 15(b): Add New User

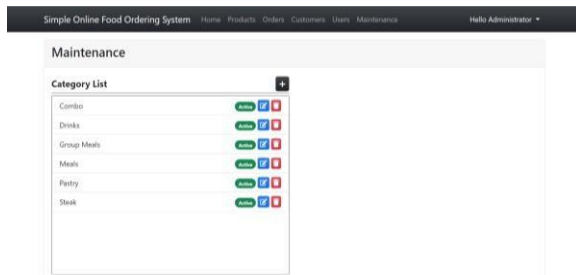


Figure 16(a): Maintenance

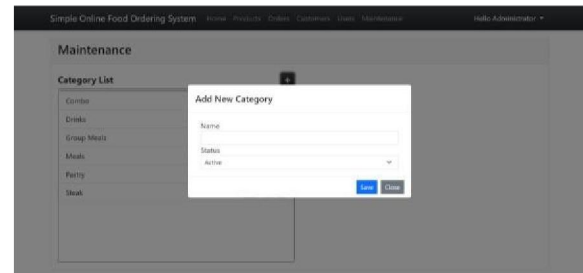


Figure 16(b): Add New Category

VII. FUTURE SCOPE OF THE PROJECT

In a shell, it is summarized that the long run scope of the project circles around maintaining data regarding:

- We will add printer in future.
- We will offer additional advance package for on-line Food Ordering System as well as additional facilities
- We can host the platform on on-line servers to create it accessible worldwide
- Integrate multiple load balancers to distribute the masses of the system
- Create the master and slave info structure to scale back the overload of the infoqueries
- Implement the backup mechanism for taking backup of codebase and info on regular basis on totally different servers

The preceding points area unit the enhancements which may be done to extend the pertinency and usage of this project. Here we will maintain the records of Food Item and class. Also, because it is seen that now-a-days the players area unit versatile,

i.e., therefore, there's a scope for introducing a way to keep up the web Food Ordering System. Enhancements is done to keep up all the Food Item, Category, Customer, Order, make sure Order.

We have left all the choices open in order that if there's the other future demand within the system by the user for the sweetening of the system then it's attainable to implement them. Within the last we'd prefer to thank all the persons concerned within the development of the system directly or indirectly. We have a tendency to hope that the project can serve its purpose that it's develop there by underlining success of method.

IX. CONCLUSION

An online food ordering system has been planned wherever the purchasers will create associate or orders the food and avoid the hassles of watching for the order to be taken by the waiter. The exploitation of the application, the tip users register online, scan the E-menu card, and choose the food from the e-menu card to order food online. Once the client selects the desired food item the cook is going to be ready to see the results on the screen and begin to process the food. This application nullifies the requirement of a waiter or reduces the employment of the waiter. The advantage is that in a very jammed eating place there will be the probability that the waiters are overladen with orders and that they are unable to fulfil the wants of the client in a very satisfactory manner.

Conflict of Interests

The System flow chart diagram could be a graphical illustration of the relation between all the most important components or steps of the system. Flow chart diagram cannot embody minor components of the system

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