Shivaji University, Kolhapur.

A PROJECT REPORT

ON

"Online Food Ordering Management System"

Submitted To,

Yashwantrao Chavan School Of Rural Development

Shivaji University, Kolhapur.

in the partial fulfillment of
MCA Part-II, Sem-III
(2023-2024)

Submitted By

Mr. Pankaj G. Patil
Mr. Omkar D. Kamble

Under The Guidance of

Mr. Parashuram S. Vadar

2023 – 2024

Yashwantrao Chavan School Of Rural Development

Shivaji University, Kolhapur

CERTIFICATE

This is to certify that, **Mr. Pankaj Gajanan Patil** and **Mr . Omkar Dattabal Kamble** have satisfactorily completed the project entitled as **"Online Food Ordering Management System"** in the partial fulfillment of MCA-II, SEM-III during the academic year 2023-2024.

Place: Kolhapur

Date: …. /. /2023

Mr.Parashuram S. Vadar — Dr.Vaishali P. Bhosale

(Internal Guide) **(Examiner)** **(Co-Ordinator)**

ACKNOWLEDGEMENT

Every project is always a scheduled, guided & coordinated team effort aimed at achieving common minimum goals. This minimum goal cannot be achieved without the guidance of guide.

It is with immense pleasure that we present our report to our project guide **Mr. Parashuram S. Vadar.** We find no words to describe his efforts and total confidence in our potential to see this project to completion. He has always been a source of inspiration and a tower of support boosting our moral beyond imagination. We would like to express our gratitude to **Dr. Vaishali P. Bhosale MCA Co-ordinaor, YCSRD** for her continuing support and encouragement. We sincerely express our gratitude to our parents for their blessing for making this project successful.

Finally, we are thankful to our department and all our friends who havehelped us to realize our efforts.

Thanking all of them, again.

Mr. Pankaj Gajanan Patil

Mr . Omkar Dattabal Kamble

Place: Kolhapur

Date: …. /…. /2023

DECLARATION

We, undersigned, here by declare that the project report entitled "Online Food Ordering Management System" for the award Masters of Computer Application through Yashwantrao Chavan School of Rural Development, Kolhapur is my original work prepared under the guidance of Mr. Parashuram Vadar.

This Empirical finding in this report is based on data collected by us. The matter presented in the report is not copied from any source.

Further we declare, we have not violated any of the previous under copyright act.

NAME OF GROUP MEMBERS (Exam Seat No.) SIGN

Mr. Pankaj Gajanan Patil .

Mr . Omkar Dattabal Kamble

Place: Kolhapur

Date: …. /…. /2023

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INTRODUCTION

INTRODUCTION:

In an era marked by fast-paced lifestyles and an increasing reliance on digital solutions, the food industry has undergone a significant transformation. Traditional methods of ordering food have given way to convenient and efficient online food ordering systems. The Online Food Ordering Management System, or OFOMS for short, is designed to streamline the process of ordering food online, benefiting both customers and restaurant owners.

This comprehensive documentation provides an in-depth overview of the Online Food Ordering Management System, its features, functionality, and the underlying technologies that power it. It is intended for developers, restaurant owners, and anyone interested in understanding how this system operates and can be leveraged to enhance the food ordering experience.

Purpose of the The Online Food Ordering Management System

The primary purpose of the Online Food Ordering Management System is to bridge the gap between customers and restaurants, offering a seamless and hassle-free method for ordering food. Key objectives of the system include:

1. Customer Convenience: OFOMS allows customers to browse menus, place orders, and make payments from the comfort of their own homes or on the go using their preferred devices.

2. Restaurant Efficiency: Restaurant owners can effectively manage orders, update menus, and track sales, thereby improving overall business efficiency.

3. Order Accuracy: By automating the ordering process, the OFOMS

reduces the risk of human errors, ensuring that customers receive the correct orders every time.

4. Payment Security: The system employs robust security measures to safeguard customer information and financial transactions.

OBJECTIVES

The objective of an Online Food Ordering Management System (OFOMS) is to create a seamless and efficient digital platform that serves the needs of both customers and restaurant owners in the food service industry. The primary objectives of an OFOMS are as follows:

1. Customer Convenience: To provide customers with a convenient and user-friendly platform for browsing restaurant menus, placing orders, and making payments from the comfort of their own devices, thus eliminating the need for physical visits to restaurants.

2. Restaurant Efficiency: To enhance the efficiency of restaurant operations by streamlining the process of receiving, processing, and managing customer orders. This includes features for menu customization, order tracking, and communication with the kitchen staff.

3. Order Accuracy: To minimize the risk of human errors in taking and processing orders, ensuring that customers receive the correct items and customized dishes as per their preferences.

4. Payment Security: To prioritize the security of financial transactions, employing robust encryption and secure payment gateways to protect customer information and payment details.

5. Inventory Management: To assist restaurant owners in maintaining accurate inventory records and managing ingredient availability, which helps prevent customers from ordering items that are out of stock.

MANUAL SYSTEM & EXISTING SYSTEM:

Manual food ordering in hotels involves traditional, non-digital processes for receiving and processing customer orders. These manual works are distinct from online food ordering, which involves the use of technology and digital platforms to manage orders. Here are the key manual works of food ordering in hotels to differentiate them from online methods:

1. Menu Presentation:
   - Manual: Paper menus are provided to customers upon arrival at the restaurant or room service.
   - Online: Digital menus are accessible through a website or mobile app, allowing customers to browse the menu on their own devices.

2. Order Placement:
   - Manual: Customers interact with restaurant staff, verbally communicating their orders, specifying preferences, and any customizations.
   - Online: Customers use a digital platform to select items from a menu, customize their orders, and submit them electronically.

3. Order Ticket Creation:
   - Manual: Orders are written down on paper order tickets by the restaurant staff.
   - Online: Orders are automatically generated in the system as soon as customers place them online.

4. Order Confirmation:
   - Manual: The waiter or restaurant staff repeats the order verbally to the customer for confirmation.
   - Online: An order confirmation screen is displayed on the customer's device after they submit their order, ensuring accuracy.

5. Payment Processing:
   - Manual: Payment is usually handled with physical cash, credit card machines, or traditional POS systems.
   - Online: Payment is made digitally through integrated payment gateways, including

credit cards, digital wallets, or other online payment methods.

Proposed System of Online food ordering management system:

The primary purpose of the Online Food Ordering Management System is to bridge the gap between customers and restaurants, offering a seamless and hassle-free method for ordering food Security of data.

Advantage Of Proposed System: -

Online Food Ordering Management Systems (OFOMS) offer a wide range of advantages for both customers and restaurant owners. Here are some key benefits:

Advantages for Customers:

1. Convenience: Customers can browse menus, place orders, and make payments from the comfort of their homes or on-the-go using their smartphones. This eliminates the need to physically visit a restaurant or wait in long queues.

2. Variety: OFOMS often provide a wide range of restaurant options, allowing customers to explore different cuisines and dishes, including those from restaurants they might not have discovered otherwise.

3. Customization: Customers can customize their orders to meet their dietary preferences, allergies, or specific taste preferences, ensuring they get the meal they desire.

4. Time-Saving: Ordering online is significantly faster than placing orders over the phone or in person, saving valuable time for busy individuals.

5. Order Accuracy: Automated ordering reduces the risk of human errors in taking down orders, leading to more accurate and satisfying dining experiences.

6. Real-Time Updates: Customers receive real-time updates on the status of their orders, including estimated delivery times or readiness for pickup.

7. Payment Options: OFOMS often offer a variety of payment options, including credit cards, digital wallets, and cash on delivery, providing flexibility to customers.

8. Review and Ratings: Customers can leave reviews and ratings, helping others make informed choices and motivating restaurants to maintain high-quality service.

Overall, Online Food Ordering Management Systems have become a crucial tool for both customers and restaurant owners, offering convenience, efficiency, and an enhanced dining experience. The advantages of these systems continue to drive their adoption in the food industry, transforming the way we order and enjoy our favorite meals.

SYSTEM ANALYSIS

System analysis is a process of gathering and interpreting facts, diagnosing problems and the information about the Online food ordering management system to recommend improvements on the system. It is a problem-solving activity that requires intensive communication between the system users and system developers. System analysis or study is an important phase of any system development process. The system is studied to the minutest detail and analysed. The system analyst plays the role of the interrogator and dwells deep into the working of the present system. The system is viewed as a whole and the input to the system are identified. The outputs from the organizations are traced to the various processes.

System analysis is concerned with becoming aware of the problem, identifying the relevant and decisional variables, analysing and synthesizing the various factors and determining an optimal or at least a satisfactory solution or program of action. A detailed study of the process must be made by various techniques like interviews, questionnaires etc. The data collected by these sources must be scrutinized to arrive to a conclusion. The conclusion is an understanding of how the system functions. This system is called the existing system. Now the existing system is subjected to close study and problem areas are identified. The designer now functions as a problem solver and tries to sort out the difficulties that the enterprise faces. The solutions are given as proposals. The proposal is then weighed with the existing system analytically and the best one is selected. The proposal is presented to the user for an endorsement by the user.

The proposal is reviewed on user request and suitable changes are made. This is loop that ends as soon as the user is satisfied with proposal. Preliminary study is the process of gathering and interpreting facts, using the information for further studies on the system. Preliminary study is problem solving activity that requires intensive communication between the system users and system developers. It does various feasibility studies. In these studies, a rough figure of the system activities can be obtained, from which the decision about the strategies to be followed for effective system study and analysis can be taken

FEASIBILITY STUDY

FEASIBILITY STUDY:

After doing the project Online food ordering management system, study and analysing all the existing or required functionalities of the system, the next task is to do the feasibility study for the project. All projects are feasible - given unlimited resources and infinite time. Feasibility study includes consideration of all the possible ways to provide a solution to the given problem. The proposed solution should satisfy all the user requirements and should be flexible enough so that future changes can be easily done based on the future upcoming requirements.

A. Economical Feasibility

This is a very important aspect to be considered while developing a project. We decided the technology based on minimum possible cost factor.

1) All hardware and software cost has to be borne by the organization.

2) Overall, we have estimated that the benefits the organization is going to receive from the proposed system will surely overcome the initial costs and the later on running cost for system.

B. Technical Feasibility

This included the study of function, performance and constraints that may affect the ability to achieve an acceptable system. For this feasibility study, we studied complete functionality to be provided in the system, as described in the System Requirement Specification (SRS), and checked if everything was possible using different type of frontend and backend platforms.

C. Operational Feasibility

No doubt the proposed system is fully GUI based that is very user friendly and all inputs to be taken all self-explanatory even to a layman. Besides, a proper training has been conducted to let know the essence of the system to the users so that they feel comfortable with new system. As far our study is concerned the clients are comfortable and happy as the system has cut down their loads and doing.

SYSTEM REQUIREMENTS

- **Hardware and Software**

A. Software Requirement

Operating System: Windows 11(64bit)

Web browser: Chrome, Firefox, Etc.

B. Hardware Requirement:

Hard Disk	: 1GB free space
RAM	: 512 MB

C. Front End

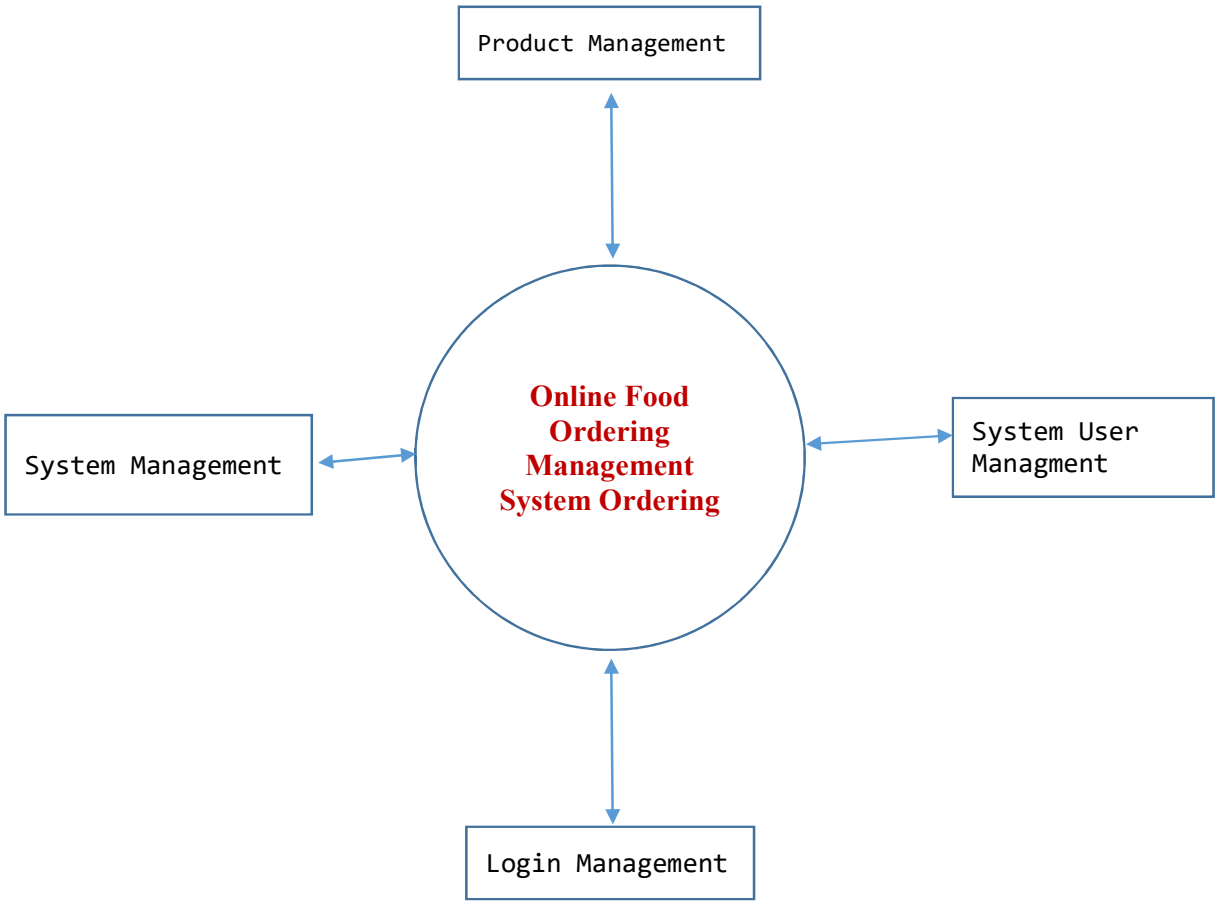
1) HTML
2)CSS
3)JAVASCRIPT

D. Back End

1)PHP
2)MYSQL

DFD:

Zero Level DFD:



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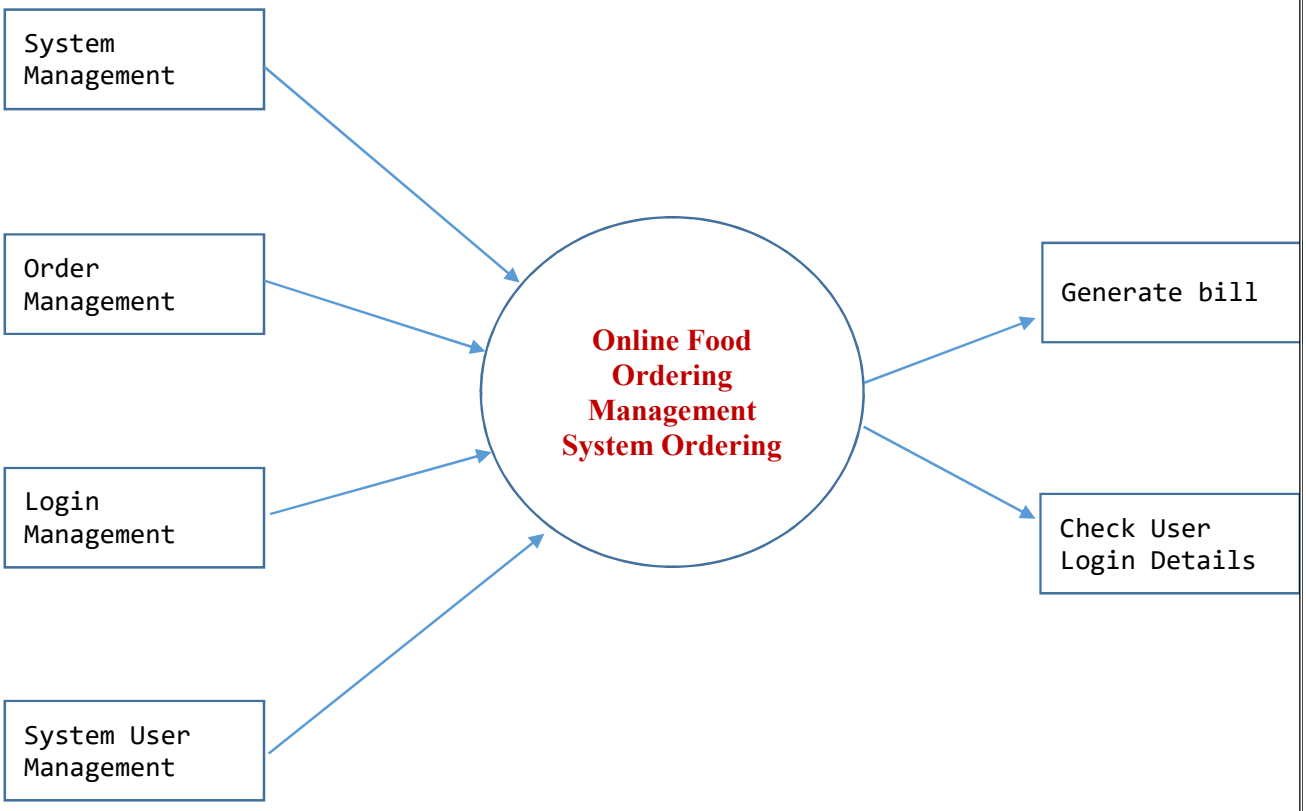
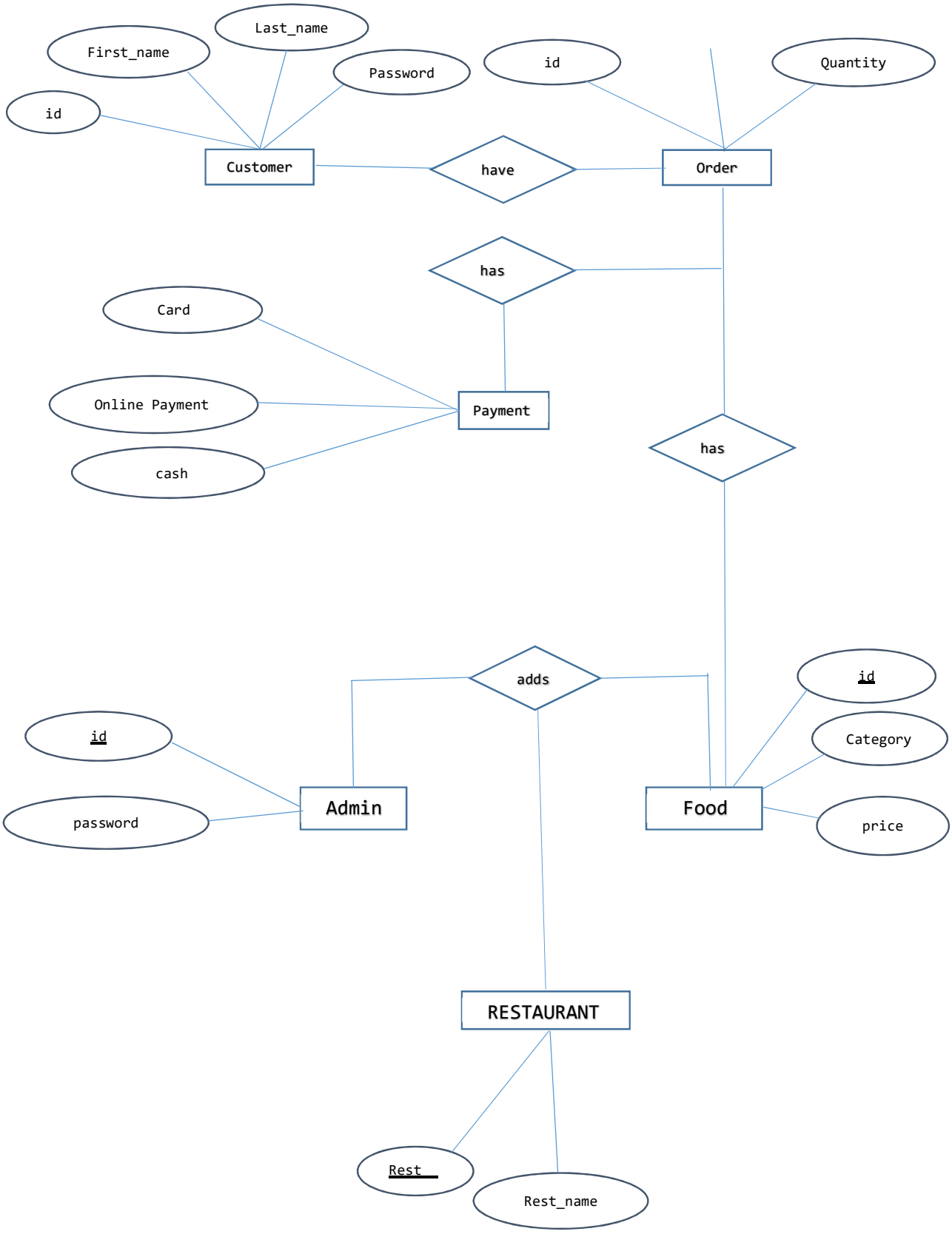

System Management
Order Management
Login Management
System User Management
Online Food Ordering Management System Ordering
Generate bill
Check User Login Details

ERD(Entity Relationship Diagram)



ABOUT PHP AND MYSQL

PHP

PHP stands for Hypertext Pre-processor, but it formerly stood for Personal Home Pages. PHP is a server-side scripting language used for creating dynamic web content; that is, websites that users can interact with that are not served statically. It can be used to store and retrieve data from a database and then present it on a web page. To generate HTML, the PHP parser and a web server are required. When a user requests a page, the PHP script is interpreted at the web server by the PHP interpreter (also called parser), by executing the operations prompted in the script. Notably, this process does not consume CPU resources.

The entire back-end scripting of the invoice system has been done with PHP. There are many good reasons for choosing PHP such as the ones listed below.

Performance: PHP codes execute with much faster speed than those of other scripting languages such as ASP.NET or JSP. One server is enough to withstand millions of hits in a single day.

Portability: PHP is compatible with all the major operating systems such as Microsoft Windows, Mac OS X and various Unix variants like Linux, FreeBSD, Debian, Solaris and Ubuntu which is the operating system installed on Web2Fix Oy's computers. A functional PHP script can always be run on another platform with ease.

Database Integration: PHP is known for having support for a vast array of data- bases. It has flexible connectivity to all major database systems such as MySQL, PostgreSQL, MS-SQL, Oracle, Sybase, DB2, and more. It is also compliant to the Open Database Connectivity (ODBC) standard, with which connection can be established with any database running the ODBC driver. Furthermore, there is a database abstraction layer in PHP known as PHP Database Objects (PDOS), which provides constant access and enhances secure programming practices.

Inbuilt Libraries: PHP comes with multiple inbuilt functions for various operations. With a few lines of code, PHP can easily perform a significant number of tasks on the fly, for instance: generating PDF documents, GIF, JPEG, and PNG images, parsing XML, connecting to web services, using cookies, sending emails and much more.
Ease of Learning: It is quite easy to learn PHP. Since its syntax was adapted from C and Perl, having knowledge of these programming languages would enable beginners learn at a higher speed.

MYSQL

With PHP, you can connect to and manipulate databases.
MYSQL is the most popular database system used in PHP.

What is MySQL?

MySQL is believed to be the most popular Open-Source database management system for web servers. It powers some of the most-high profile web applications. It operates at extremely high speed without putting heavy pressure on system resources and its usage comes at no financial cost. It is highly scalable, as it grows proportionately with the website it stores data for.

MySQL is developed, distributed, and supported by Oracle Corporation. MySQL is free to download and use. It Compiles on a number of platforms. The data in a MySQL are stored in tables. A table is a collection of related data, and it consist of columns and rows.

Tables in project

1. Admin Table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	adm_id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	username	varchar(222)	latin1_swedish_ci		No	None			Change Drop More
3	password	varchar(222)	latin1_swedish_ci		No	None			Change Drop More
4	email	varchar(222)	latin1_swedish_ci		No	None			Change Drop More
5	code	varchar(222)	latin1_swedish_ci		No	None			Change Drop More
6	date	timestamp			No	current_timestamp()		ON UPDATE CURRENT_TIMESTAMP()	Change Drop More

2. Dishes Table

	d_id	rs_id	title	slogan	price	img
Edit Copy Delete	3	7	Misal Pav	Misal pav (Marathi: ???????) is a dish from the In...	50.00	6524df0dc1492.jpg
Edit Copy Delete	17	6	Vada Pav	Vada Pav is a savory and spicy soft dinner rolls o...	20.00	6524dc80e7384.jpg
Edit Copy Delete	18	5	Idli	Idli or idly (/?dli?/) (plural: idlis) is a type o...	60.00	6524dcc20140b.jpg
Edit Copy Delete	19	7	Dosa	A dosa is a thin savory crepe in South Indian cuis...	70.00	6524dce715273.jpg
Edit Copy Delete	20	8	Dhokla	Dhokla is a savoury sponge dish that is native to ...	40.00	6524dd3082df3.jpg
Edit Copy Delete	21	7	Veg Thali	vegetables: a seasonal preparation. chutney: a con...	400.00	6524dead54675.jpg

3. Order Remark Table

	id	frm_id	status	remark	remarkDate
Edit Copy Delete	16	27	in process	confirm	2023-10-13 16:23:46
Edit Copy Delete	17	27	closed	ok	2023-10-13 16:24:54
Edit Copy Delete	18	28	rejected	cancled	2023-10-13 16:26:01

4. Restaurant Table

	rs_id	c_id	title	email	phone	url	o_hr	c_hr	o_days	address	image	date
Edit Copy Delete	5	5	Hotel Udupi Restaurant	udupi@email.com	07038505544	www.hoteludupi.com	7am	7pm	mon-sat	P7HM+H89, Sangli Phata, near HP Petrol Pump - A G...	6524d94b8233f.jpg	2023-10-10 10:25:39
Edit Copy Delete	6	5	Hotel Rajdhani	hotelrajdhani@email.com	095792 11478	www.hotelrajdhanicom	7am	11pm	Mon-Fri	SHOP NO 256/3 E WARD NEAR MUKTH SAYNIK VASAT, VASA...	6524d9f5f3e98.jpg	2023-10-10 10:28:29
Edit Copy Delete	7	5	Hotel Manora	hotelmanora@email.com	7744044060	www.hotelmanora.com	8am	8pm	Mon-Sat	Ring Road, Near S.S.C. Board,Rajendra Nagar, Kolha...	6524dad4da832.jpg	2023-10-10 10:32:12
Edit Copy Delete	8	5	Hotel Gokul	hotelgokul@email.com	9923002056	www.hotelgokul.com	8am	8pm	Mon-Thu	near konduskar petrol pump, Kolhapur Pune-Bangalor...	6524db5028fee.jpg	2023-10-10 10:34:16

Check all With selected: Edit Copy Delete Export

5. Restaurant Category

6. Users List

7. User Orders :

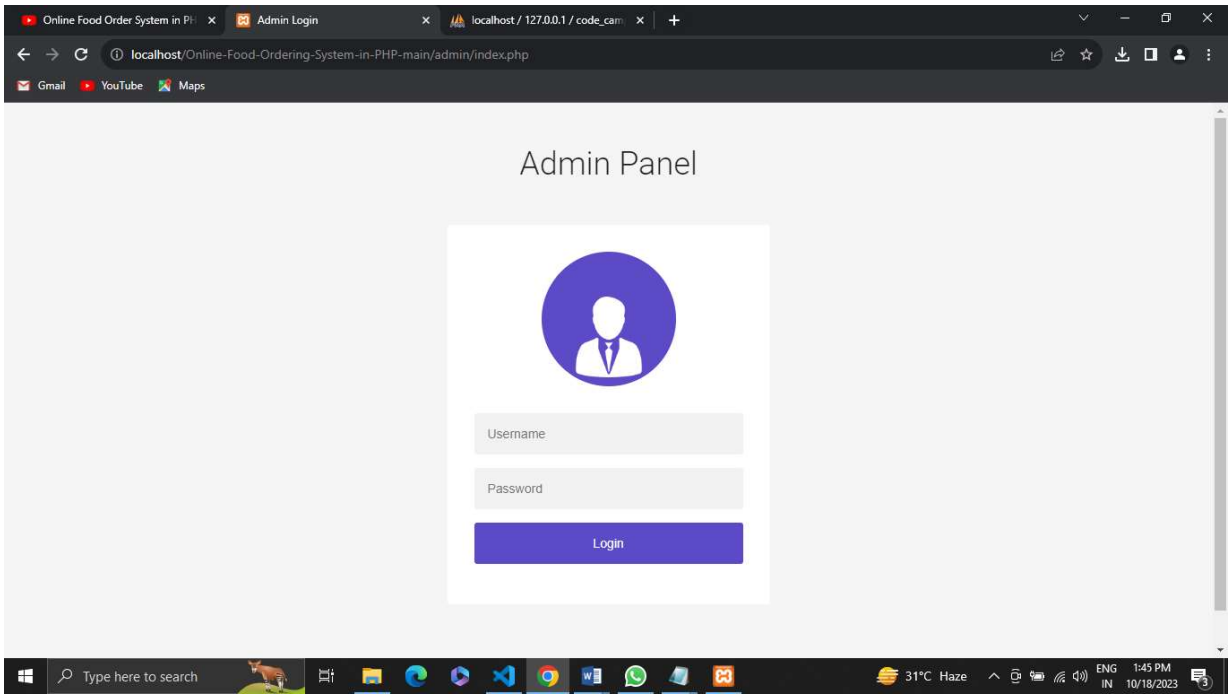
Extra options

	o_id	u_id	title	quantity	price	status	date
Edit Copy Delete	24	9	Vada Pav	10	20.00	NULL	2023-10-10 10:50:55
Edit Copy Delete	25	9	Misal Pav	1	50.00	NULL	2023-10-10 14:52:12
Edit Copy Delete	26	9	Misal Pav	1	50.00	NULL	2023-10-10 14:59:05
Edit Copy Delete	27	11	Misal Pav	1	50.00	closed	2023-10-13 16:24:54
Edit Copy Delete	28	11	Dosa	1	70.00	rejected	2023-10-13 16:26:01
Edit Copy Delete	29	11	Dosa	1	70.00	NULL	2023-10-13 15:50:03
Edit Copy Delete	30	11	Idli	1	60.00	NULL	2023-10-13 15:50:03
Edit Copy Delete	31	11	Dhokla	1	40.00	NULL	2023-10-13 15:50:37
Edit Copy Delete	32	11	Misal Pav	3	50.00	NULL	2023-10-13 16:15:44
Edit Copy Delete	33	11	Dosa	1	70.00	NULL	2023-10-13 16:15:44
Edit Copy Delete	34	11	Misal Pav	1	50.00	NULL	2023-10-14 14:27:34
Edit Copy Delete	35	11	Misal Pav	1	50.00	NULL	2023-10-14 14:28:41
Edit Copy Delete	36	11	Dosa	2	70.00	NULL	2023-10-14 14:28:41
Edit Copy Delete	37	11	Vada Pav	1	20.00	NULL	2023-10-14 14:42:52

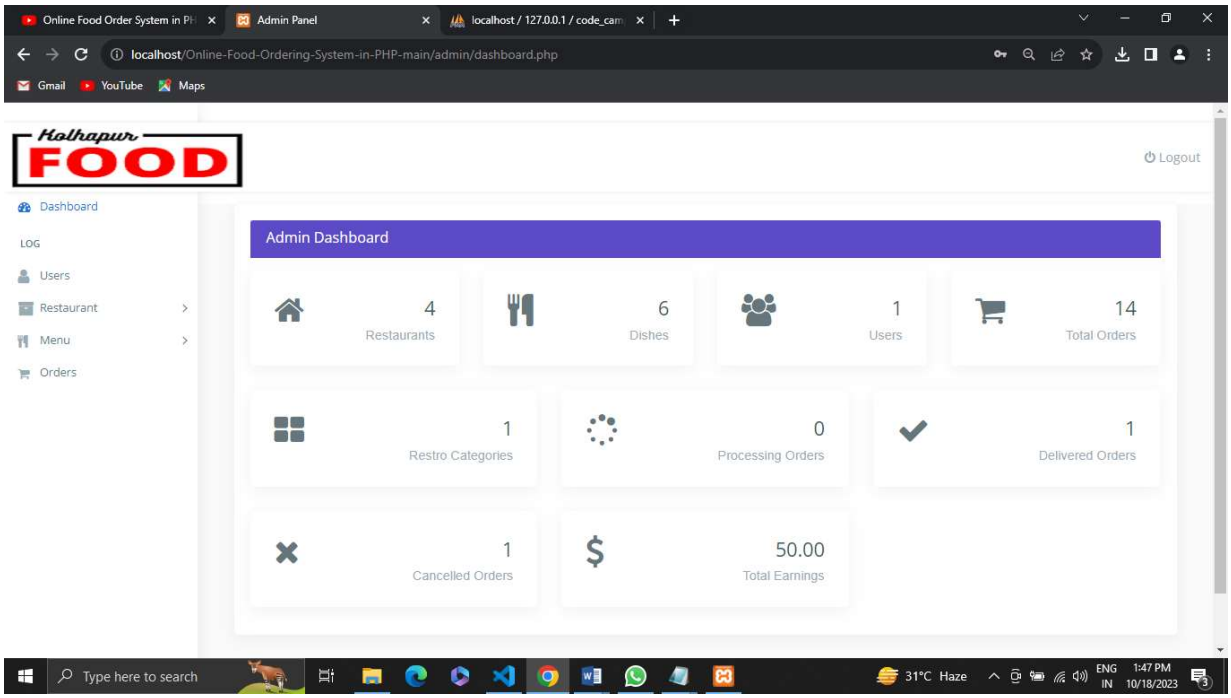
OUTPUT DESIGN AND REPORT

GUIs:

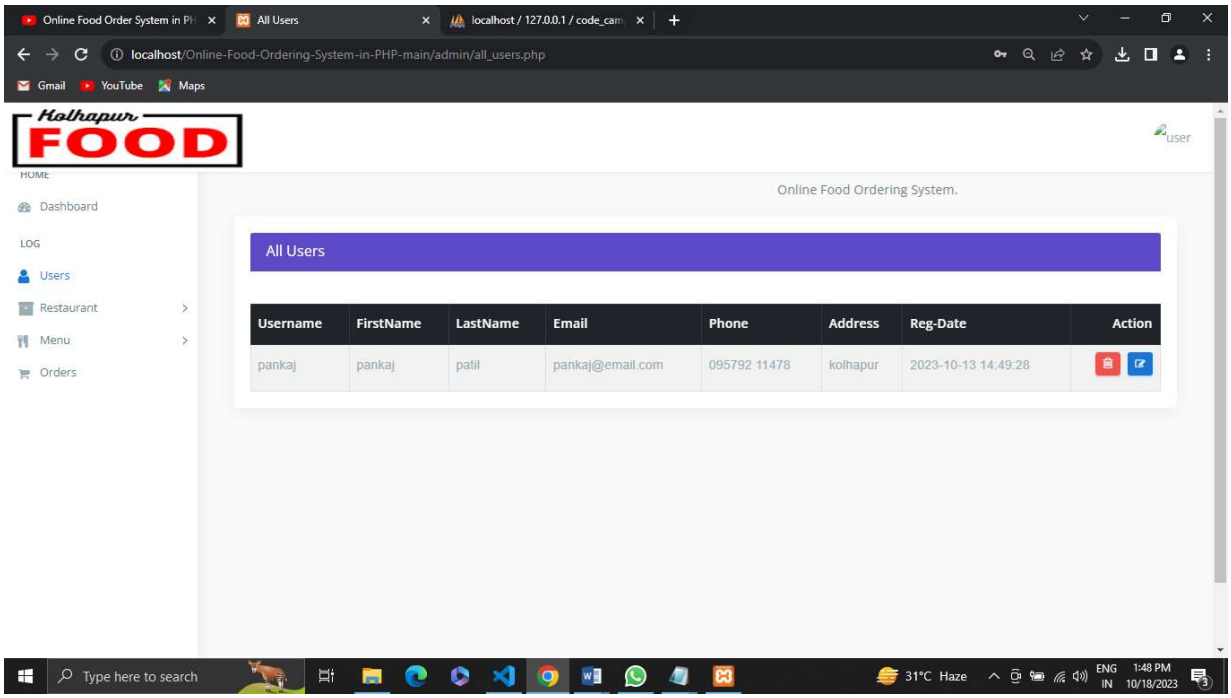
1. Login



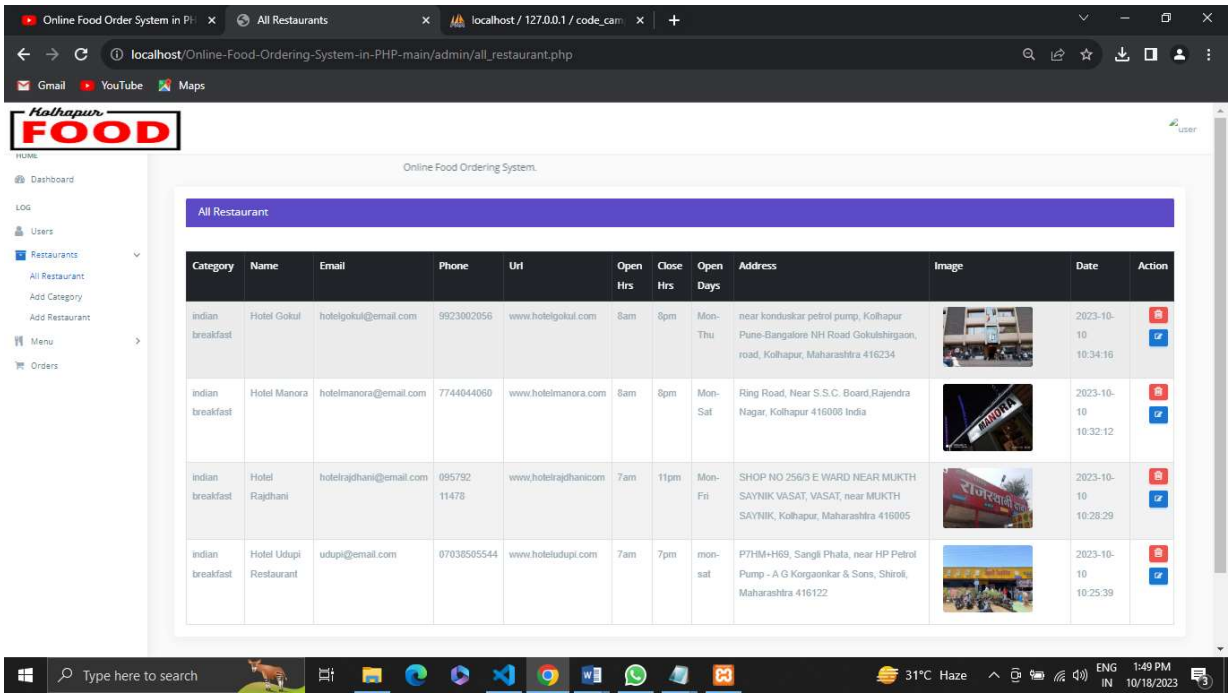
2. Dashboard



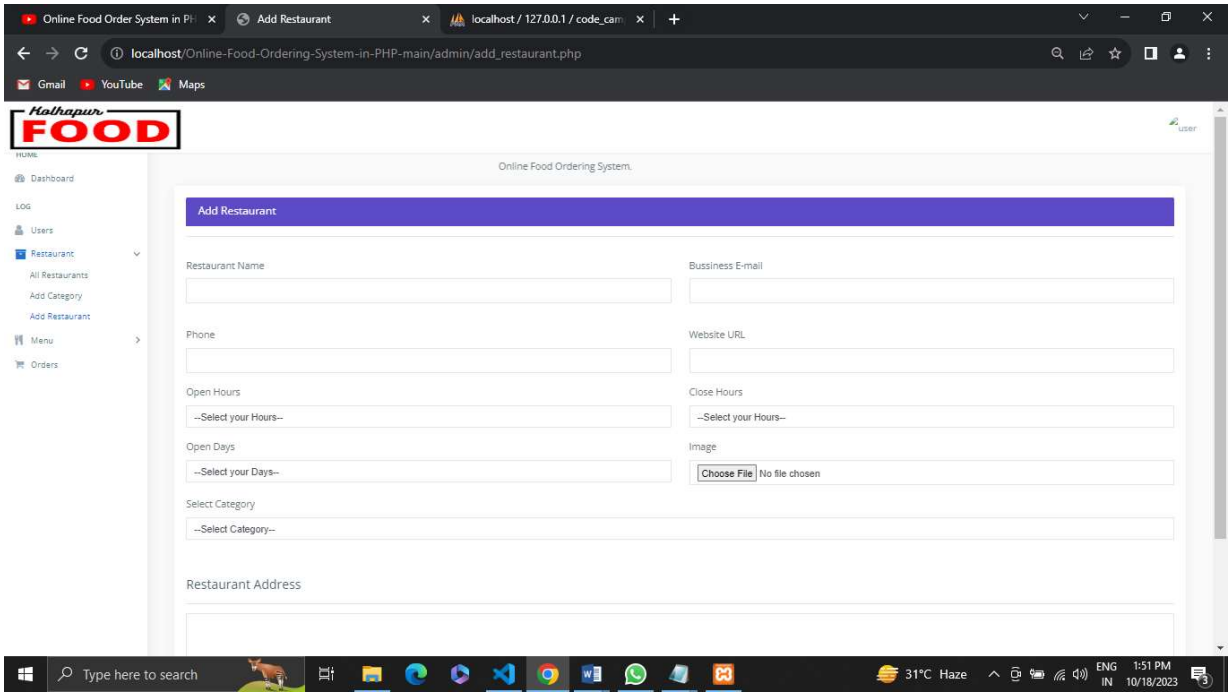
3. Users.



4. All Restaurant :



5. Add Restaurant



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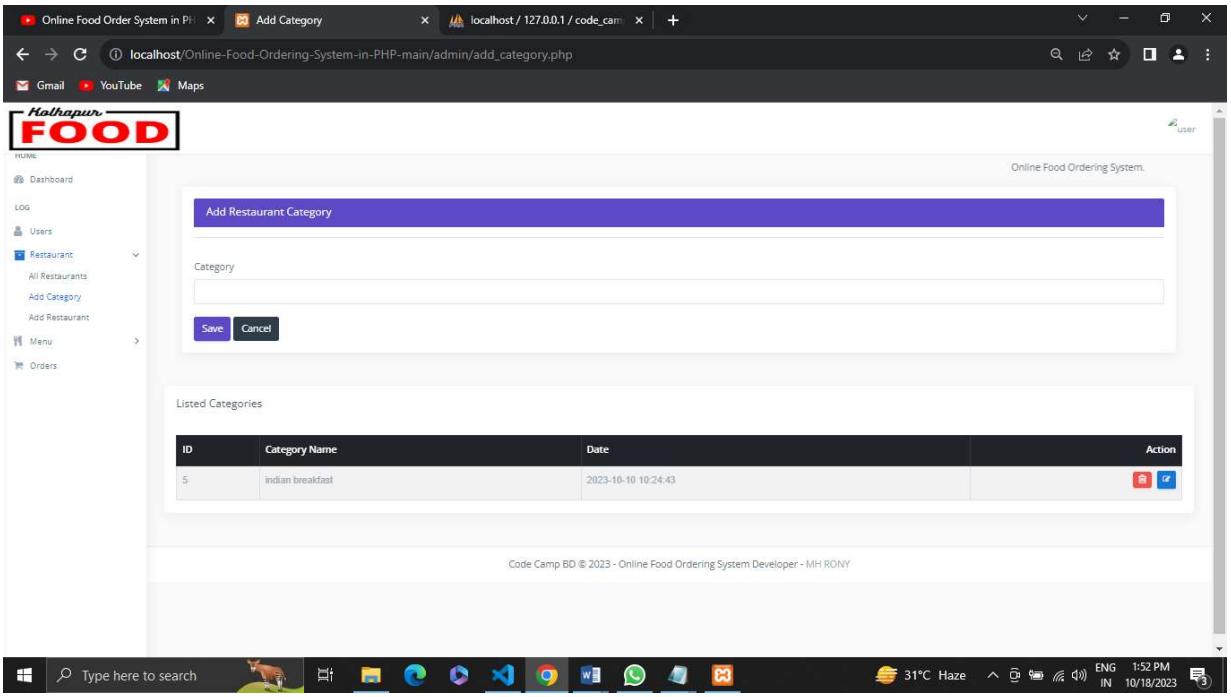
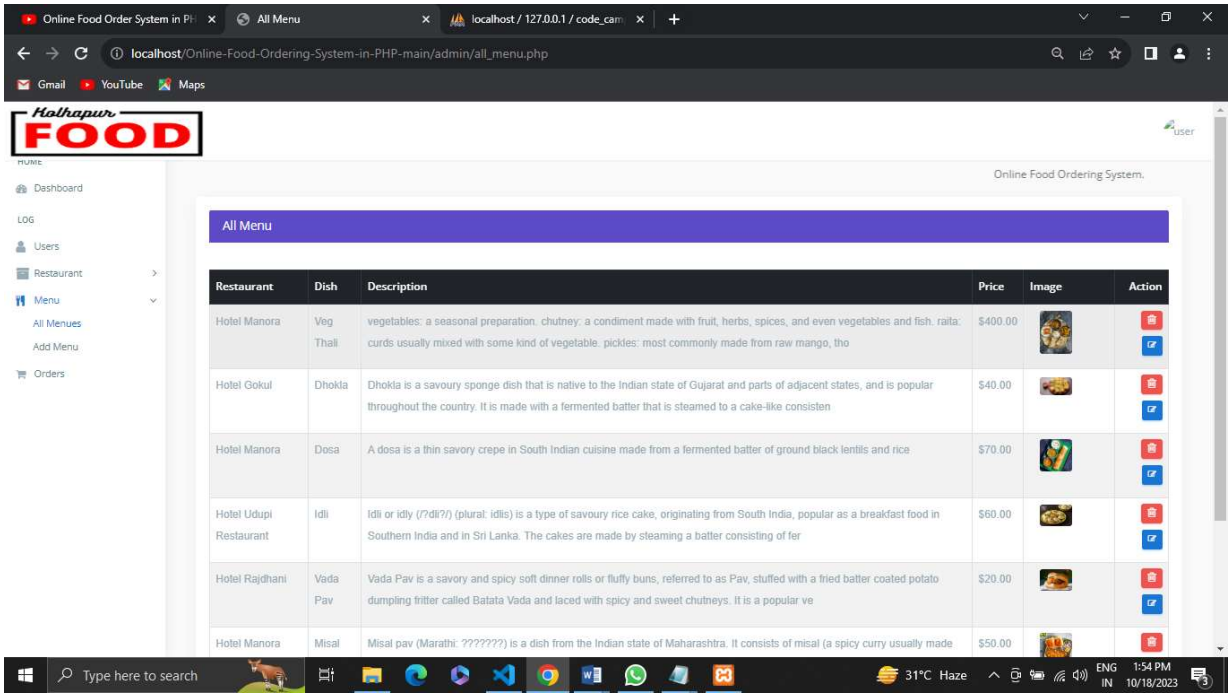


7. All Manu



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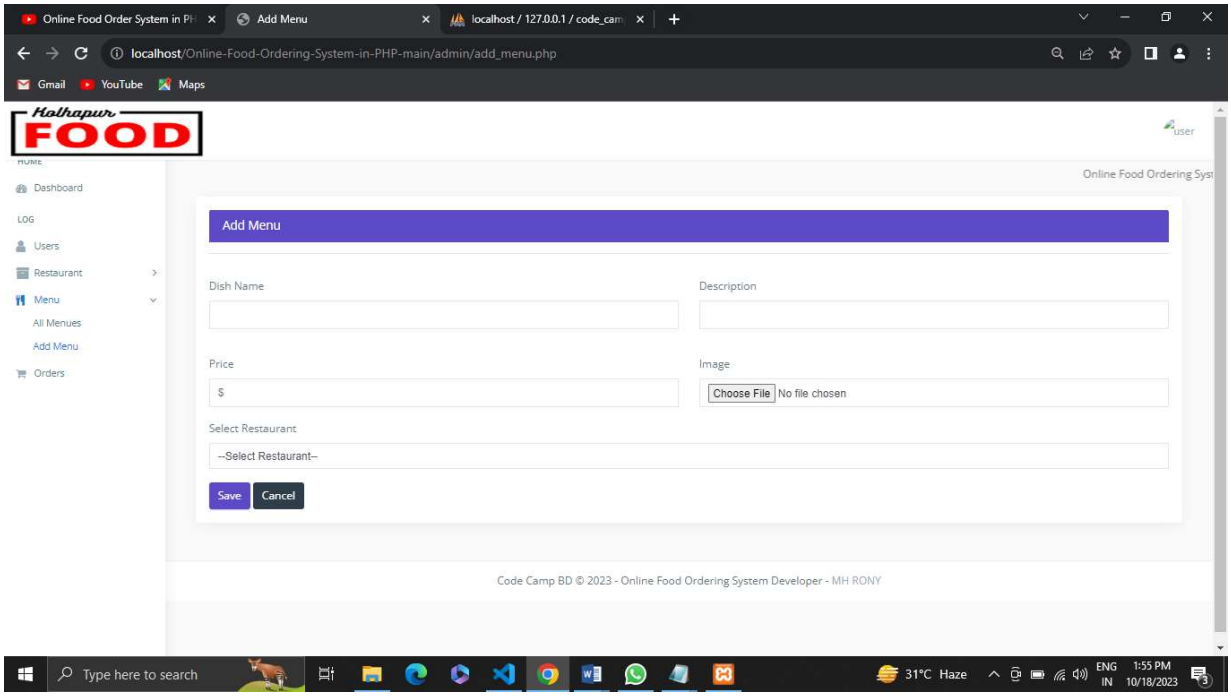
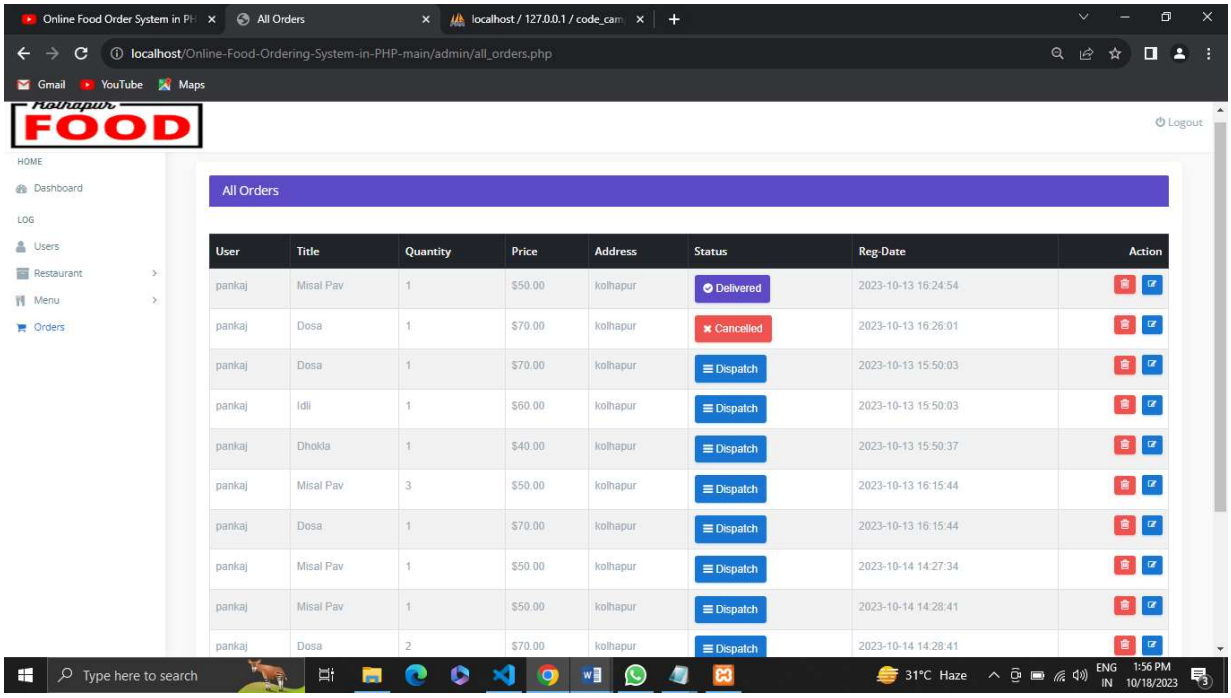
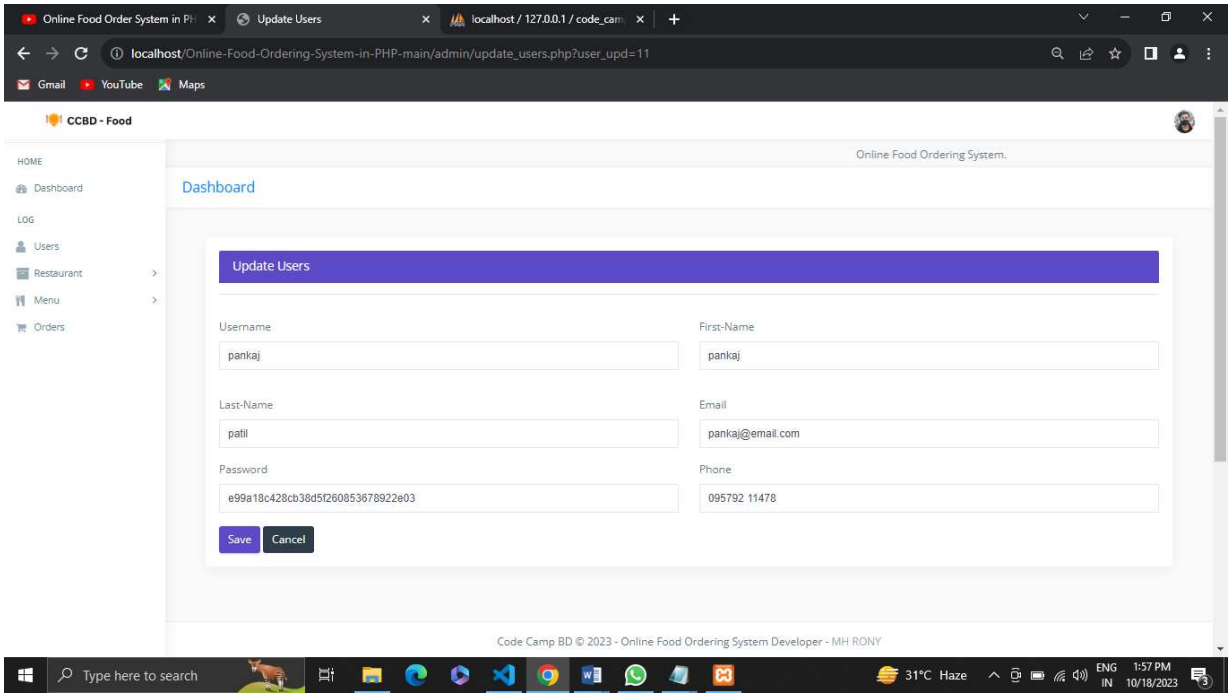


9. All Orders



7.User Setting



FEATURES OF ONLINE FOOD ORDERING SYSTEM

The Online Food Ordering Management System offers a wide range of features that benefit both customers and restaurant owners. Some of the key features include:

1.User Registration and Authentication: Customers can create accounts, while restaurant owners can access a dedicated dashboard to manage their business.

2. Menu Management: Restaurant owners can add, update, and customize their menus with ease, including descriptions, pricing, and images.

3. Order Placement: Customers can browse restaurant menus, select items, customize orders, and place them online. Real-time updates are provided on order status.

4. Secure Payments: The system supports multiple payment options, ensuring secure transactions via various payment gateways.

5. Delivery and Pickup Options: Customers can choose between delivery to their doorstep or convenient pickup from the restaurant.

6. Order Tracking: Real-time order tracking and status updates are available for both customers and restaurant staff.

7. Review and Rating System: Customers can provide feedback and rate their dining experience, helping restaurant owners to improve their services.

8. Notification System: Email and push notifications keep users informed about order updates, promotions, and more.

CONCLUSION

Conclusion of the Project Online Food Ordering System:- Our project is only a humble venture to satisfy the needs to manage their project work. Several user friendly coding have also adopted. This package shall prove to be a powerful.

package in satisfying all the requirements of the school. The objective of software planning is to provide a frame work that enables the manger to make reasonable estimates made within a limited time frame at the beginning of the software project and should be updated regularly as the project progresses.

REFERENCE

Books:

Complete reference of PHP & MySql

Websites:

1. www.Docs.Microsoft.Com
2. www.CodeSnippet.com