



NMAM INSTITUTE OF TECHNOLOGY

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Department of Computer Science and Engineering

RDBMS PROJECT REPORT ON

RESTAURANT DATABASE MANAGEMENT SYSTEM

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PROJECT GUIDE

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ABSTRACT

The purpose of the project “RESTAURANT DATABASE MANAGEMENT SYSTEM” is to manage the online transactions made by users from a particular restaurant. The system is aimed to make it as easy for the users to place online orders at a restaurant in the simplest and quickest way possible. The frontend of this system displays all the available menu items on a particular day along with its price and a brief description about the same. The website is accessible by customers/managers of the restaurant (admins). Users are required to login with their already existing account credentials or create an account if they may wish to. Customers are then redirected to the main website wherein they may select the item and quantity of the same at the end of which they are redirected to the transaction page where the final bill is displayed.

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CERTIFICATE

Certified that the project work carried out by SHREELATA .S. KINI (4NM18CS175) and SHREEMA .S. SUVARNA (4NM18CS176) bona fide students of NMAM Institute of Technology, NITTE in fulfilment for the Relational database Management System Lab (18CS502) in Computer Science and Engineering during the academic year 2020-2021.

Signature of the Examiners:

Signature of the Guide:

1.

2.

ACKNOWLEDGEMENT

The satisfactions that accompany the successful completion of any task would be incomplete without the mention of the people who made it possible. So we acknowledge all those whose guidance and encouragement served as a beacon of light and crowned our efforts with success.

We are thankful to our project guide, Mr. Pradeep Kanchan, Dept. of CSE for his valuable guidance and advice. His willingness to motivate us contributed tremendously to our project.

We would like to place on record our deep sense of gratitude to Dr. K. R. Udaya Kumar Reddy, HOD-Dept. of Computer Science and Engineering, NMAMIT, Nitte for his generous guidance, help and useful suggestions. We also acknowledge and express our sincere thanks to our beloved Dr. Niranjana. N. Chiplunkar, Principal, NMAMIT, Nitte who is a source of inspiration to us.

We thank all the Teaching and Non-Teaching staff members of the department of CSE for providing resources for the completion of the project. A special thanks goes to our parents, friends and relatives for supporting and encouraging us in all ways thus making our project successful. Finally, we thank all those who have contributed directly or indirectly in making this project a grand success.

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CHAPTER 1

INTRODUCTION

INTRODUCTION

The first online food ordering service, World Wide Waiter (now known as Waiter.com), was founded in 1995. By the late 2000s, major pizza chains had created their own mobile applications and started doing 20–30 percent of their business online. With increased smartphone penetration, and the growth of both Uber and the sharing economy, food delivery start ups started to receive more attention. By 2015, online ordering began overtaking phone ordering. Online ordering services over the last few months have seen a record high surge in their market share owing to the lockdown, as most restaurants and independent food website owners moved from “dine in” for their customers to selling food online.

WHAT IS RESTAURANT MANAGEMENT SYSTEM ?

Restaurant Management system is developed to automate day to day activity of a restaurant. This system is developed to provide service facility to restaurant managers and also to the customers. This restaurant management system can be used by employees in a restaurant to handle their customers, help them easily place orders their orders, and check the delivery status of these orders.

FEATURES

- Login page for Admin
- Login page for Customers
- Menu page for displaying items on the menu, location of restaurant and special items of the day
- Admin page for adding, updating or deleting items on the menu
- Page for editing the items in the order before placing the order
- Transaction page for the final bill

GENERAL OBJECTIVES

- To provide fast, efficient and reliable system by the way of managing the records of all their transaction.
- To provide users the ease of ordering food on their fingertips and having food delivered at their doorstep as quickly as possible.

CHAPTER 2

PROBLEM STATEMENT

PROBLEM STATEMENT

To manage the information of all online orders of a particular restaurant. The details of the existing orders (along with delivery status) are retrieved by the system. New customers place orders using the website which are added to the system. Along with order details, employee and customer information is also maintained. Admin may insert, update or delete an item off the menu at any time.

SIGNIFICANCE OF RESTAURANT DATABASE

Restaurant Database is mainly used to store customer order details. We collect information about customers like address, phone number and email number and store it in the database. Customers may only place orders after having logged into the website. The information later helps us deliver to their location.

We also store all the employee's details. These are helpful in retrieving order status as to whether a particular order has been delivered or is still pending to be delivered.

Admin is given the permissions to change anything on the menu on a particular day subject to its availability, or disable the existing menu items.

Apart from the people working at the restaurant, we store information about the food items being served on the menu on a particular day.

CHAPTER 3:

ER DIAGRAM

SCHEMA

CHAPTER 4:

FRONT END TECHNOLOGY

In our project, we have made use of:

HTML5

HTML5 is a markup language used for structuring and presenting content on the World Wide Web. We have made use of it in laying out the webpage.

CSS3

Cascading Style Sheets is a style sheet language used for describing the presentation of a document written in a markup language such as HTML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript. We have used it to stylise our webpages.

BOOTSTRAP

Bootstrap is a free and open-source CSS framework directed at responsive, mobile-first front-end web development. It contains CSS- and JavaScript-based design templates, some of which have been used for our interface components like Glyphicons, forms and navigation bars on our website.

CHAPTER 5:

BACK END TECHNOLOGY

In our project the following back end technologies have been used:

PHP

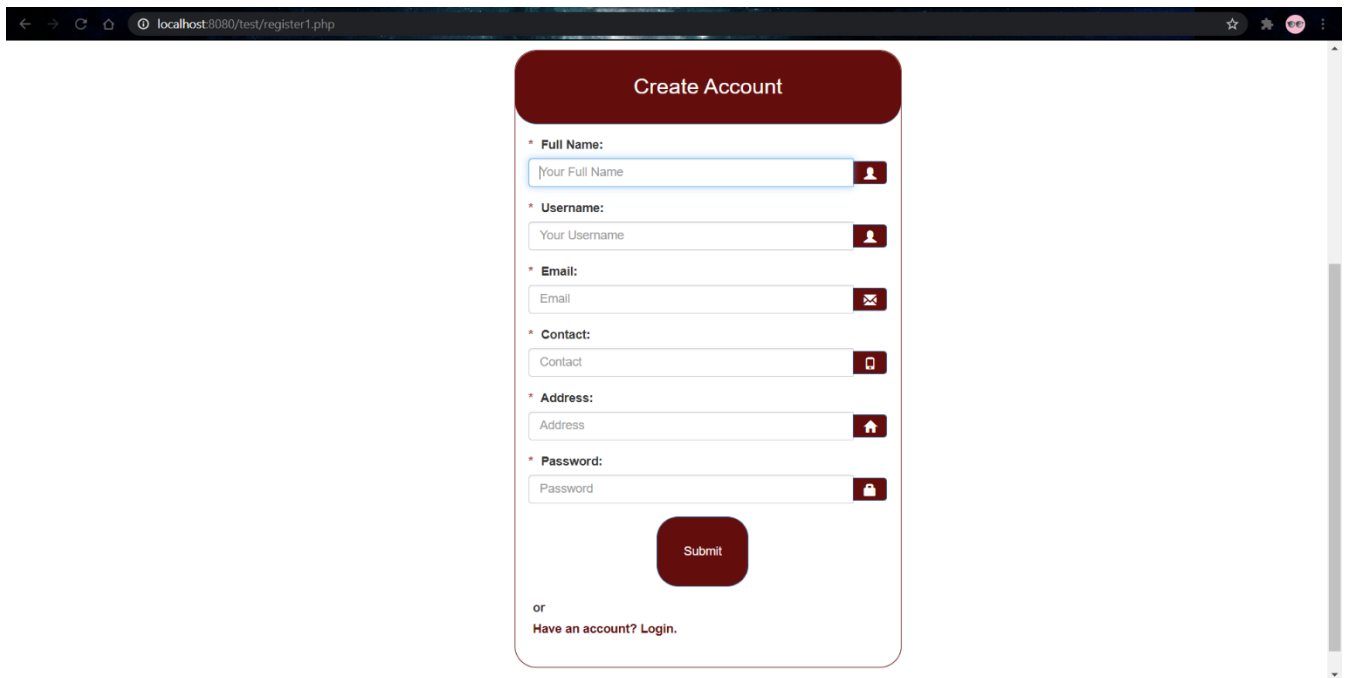
PHP is a server side scripting language. that is used to develop Static websites or Dynamic websites or Web applications. PHP stands for Hypertext Pre-processor, that earlier stood for Personal Home Pages.

XAMPP Server

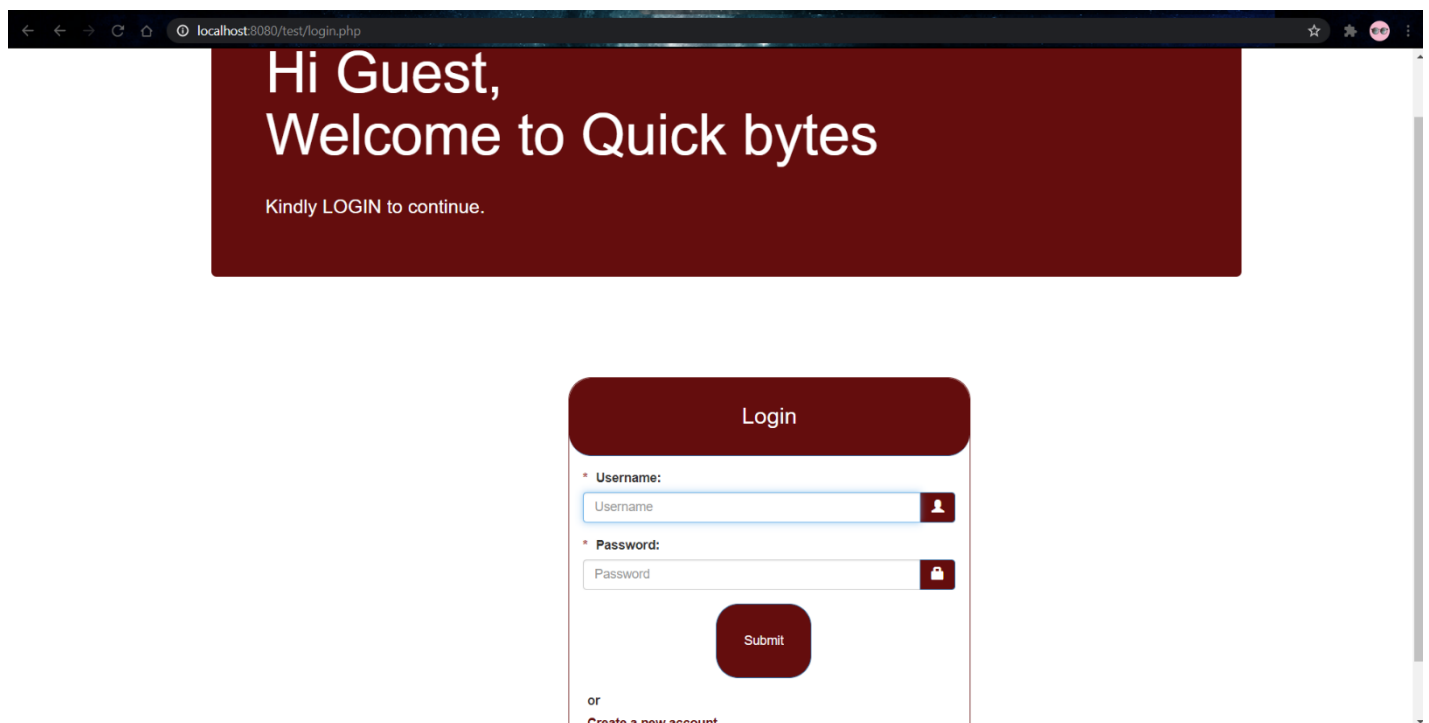
XAMPP is a free and open-source cross-platform web server solution stack package developed by Apache Friends, consisting mainly of the Apache HTTP Server, MariaDB database, and interpreters for scripts written in the PHP and Perl programming languages.

CHAPTER 6: SCREENSHOTS

Customer View:

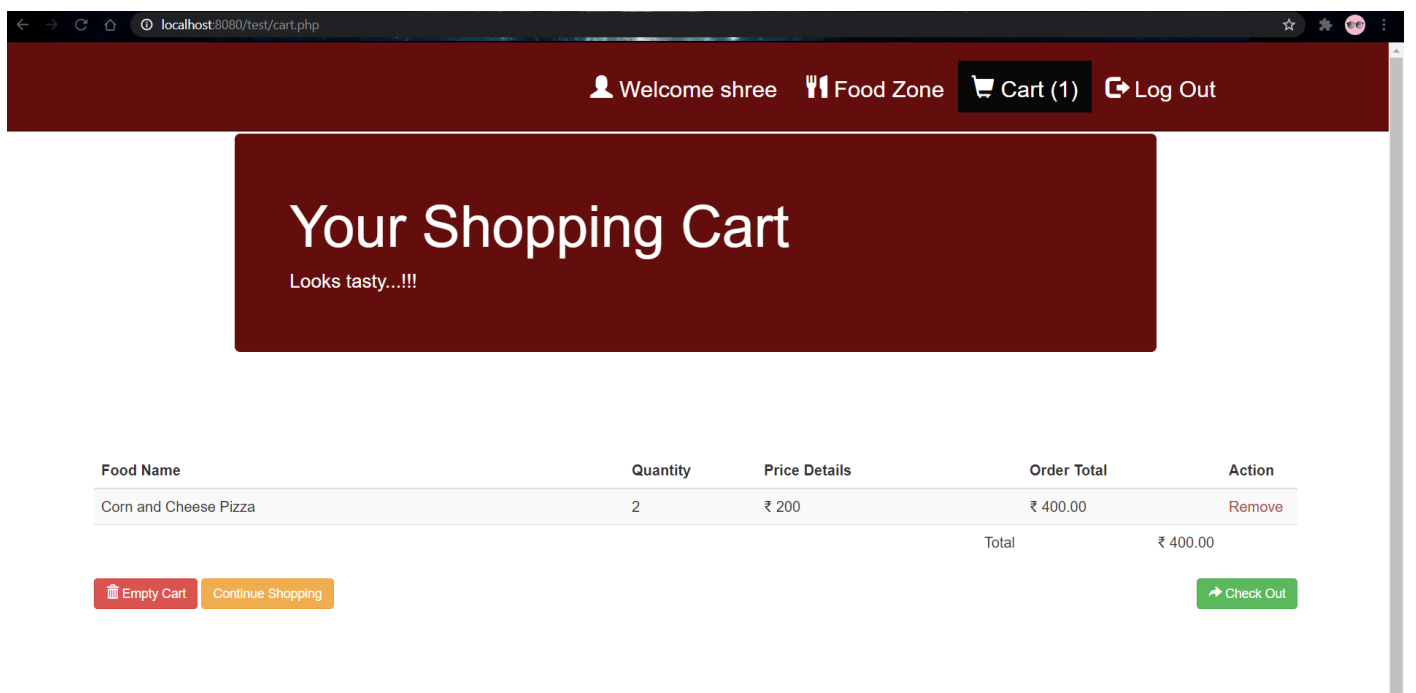
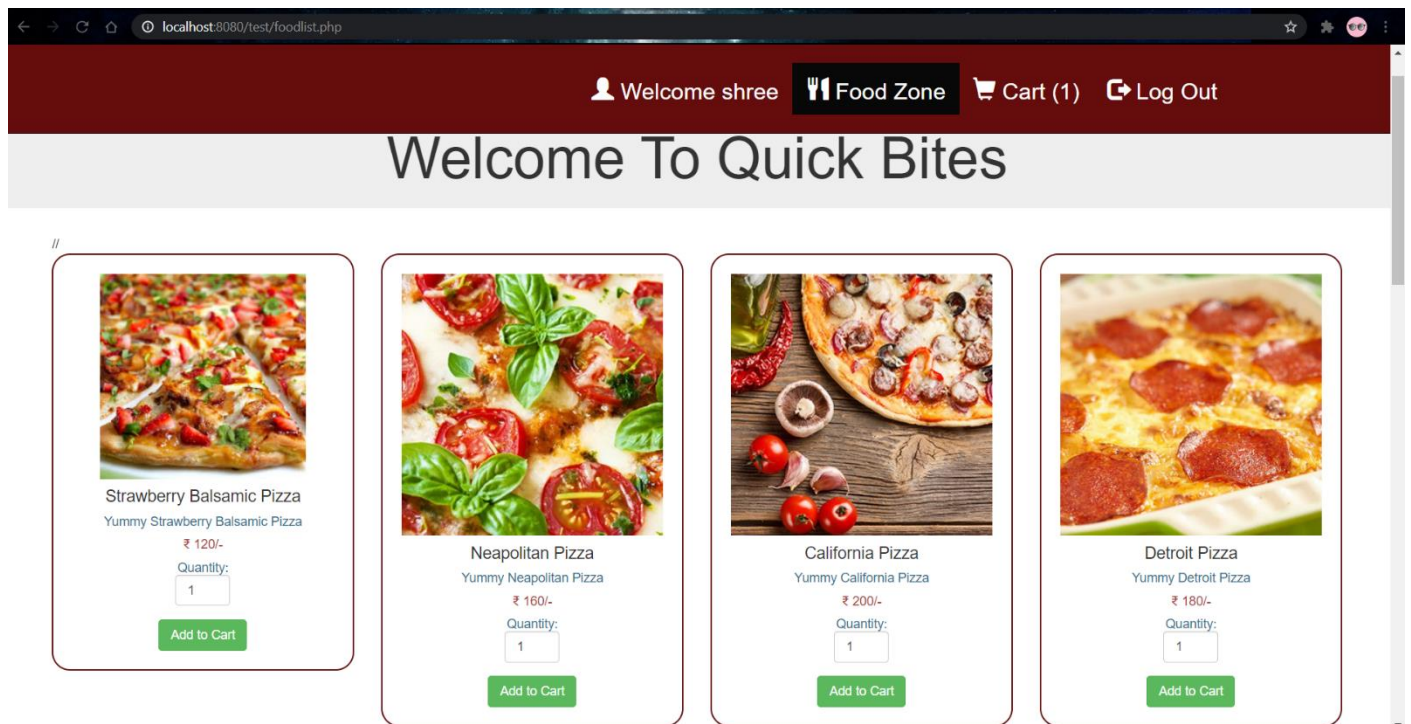


A screenshot of a web browser displaying a 'Create Account' form. The browser's address bar shows 'localhost:8080/test/register1.php'. The form is titled 'Create Account' and contains several input fields, each with a red icon to its right: 'Full Name' (with a person icon), 'Username' (with a person icon), 'Email' (with an envelope icon), 'Contact' (with a mobile phone icon), 'Address' (with a house icon), and 'Password' (with a lock icon). Below these fields is a red 'Submit' button. At the bottom of the form, it says 'or Have an account? Login.'



A screenshot of a web browser displaying a login page. The browser's address bar shows 'localhost:8080/test/login.php'. The page features a large red banner with the text 'Hi Guest, Welcome to Quick bytes' and 'Kindly LOGIN to continue.' Below the banner is a 'Login' form with two input fields: 'Username' (with a person icon) and 'Password' (with a lock icon). A red 'Submit' button is located below the fields. At the bottom of the form, it says 'or Create a new account.'

Customer order:



Manager View:

[Log Out](#)

Hello Manager!

Manage all your restaurant from here

[My Restaurant](#)[View Food Items](#)[Add Food Items](#)[Edit Food Items](#)[Delete Food Items](#)

MY RESTAURANT

[ADD RESTAURANT](#)

[Log Out](#)

[My Restaurant](#)[View Food Items](#)[Add Food Items](#)[Edit Food Items](#)[Delete Food Items](#)[View Order Details](#)

YOUR FOOD ORDER LIST

Order ID	Food ID	Food Name	Price	Quantity	Customer
> 28	59	Meurig Fish	60	1	birju
> 26	59	Meurig Fish	60	6	birju
> 38	78	French Fries	75	7	ckumar
> 37	72	Paneer Pakora	45	6	ckumar
> 36	62	Spring Rolls	65	1	ckumar
> 34	59	Meurig Fish	60	1	ckumar
> 31	59	Meurig Fish	60	1	ckumar
> 40	73	Puff	35	1	ckumar
> 39	78	French Fries	75	1	ckumar
> 41	77	Pizza	200	2	ckumar
> 42	70	Tea	20	1	ckumar
> 44	70	Tea	20	1	ckumar
> 46	70	Tea	20	1	ckumar
> 49	62	Spring Rolls	65	6	ckumar

←

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localhost:8080/test/edit_food_items.php

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Log Out

My Restaurant

View Food Items

Add Food Items

Edit Food Items

Delete Food Items

View Order Details

Click On Menu

Neapolitan Pizza

St Louis Pizza

Breakfast Pizza

Bagel Pizza

Dessert Pizza

Pizza Romano

Peppy Paneer Pizza

Pizza

French

Pakora

Veg Extravaganz

Pizza All Italiana

Greek Pizza

Corn and Cheese Pizza

←

→

↻

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localhost:8080/test/delete_food_items.php

☆

⚙

👤

⋮

Log Out

My Restaurant

View Food Items

Add Food Items

Edit Food Items

Delete Food Items

View Order Details

DELETE YOUR FOOD ITEMS FROM HERE

	Food #	ID	Food Name	Price	Description	Restaurant ID
<input type="checkbox"/>	59		Neapolitan Pizza	160	Yummy Neapolitan Pizza	2
<input type="checkbox"/>	62		St Louis Pizza	165	Yummy St Louis Pizza	2
<input type="checkbox"/>	69		Breakfast Pizza	125	Yummy Breakfast Pizza	2
<input type="checkbox"/>	70		Bagel Pizza	120	Yummy Bagel Pizza	2
<input type="checkbox"/>	71		Dessert Pizza	140	Yummy Desert Pizza	2
<input type="checkbox"/>	72		Pizza Romano	145	Yummy Pizza Romano	2
<input type="checkbox"/>	73		Peppy Paneer Pizza	135	Yummy Peppy Paneer Pizza	2
<input type="checkbox"/>	77		Veg Extravaganz	200	Yummy Veg Extravaganz	2
<input type="checkbox"/>	78		Pizza All Italiana	175	Yummy Pizza All Italiana	2
<input type="checkbox"/>	79		Greek Pizza	145	Yummy Greek Pizza	2

DELETE

localhost:8080/test/view_food_items.php

Log Out

Hello Manager!

Manage all your restaurant from here

My Restaurant

View Food Items

Add Food Items

Edit Food Items

Delete Food Items

View Order Details

YOUR FOOD ITEMS LIST

Food ID	Food Name	Price	Description	Restaurant ID
> 59	Neapolitan Pizza	160	Yummy Neapolitan Pizza	2
> 62	St Louis Pizza	165	Yummy St Louis Pizza	2
> 69	Breakfast Pizza	125	Yummy Breakfast Pizza	2
> 70	Bagel Pizza	120	Yummy Bagel Pizza	2
> 71	Dessert Pizza	140	Yummy Desert Pizza	2
> 72	Pizza Romano	145	Yummy Pizza Romano	2
> 73	Peppy Paneer Pizza	135	Yummy Peppy Paneer Pizza	2
> 74	Pizza	200	Good and Tastv	2

Database View of various tables:

The screenshot shows the phpMyAdmin interface for the 'order_details' database, specifically the 'food' table. The table has 8 columns: F_ID, name, price, description, R_ID, images_path, and options. The data is as follows:

F_ID	name	price	description	R_ID	images_path	options
58	Strawberry Balsamic Pizza	120	Yummy Strawberry Balsamic Pizza	1	strawberry_basamic_pizza.jfif	ENABLE
59	Neapolitan Pizza	160	Yummy Neapolitan Pizza	2	neapolitan_pizza.jpg	ENABLE
60	California Pizza	200	Yummy California Pizza	3	california_pizza.jpg	ENABLE
61	Detroit Pizza	180	Yummy Detroit Pizza	1	detroit_pizza.jpg	ENABLE
62	St Louis Pizza	165	Yummy St Louis Pizza	2	st_louis_pizza.jpg	ENABLE
63	Chicago Deep Dish Pizza	175	Yummy Chicago Deep Dish Pizza	3	chicago_deep_dish_pizza.jpg	ENABLE
65	Sicilian Pizza	125	Yummy Sicilian Pizza	4	Sicilian_Pizza.jpg	DISABLE
66	Tea	120	The simple elixir of tea is of our natural world.	4	images/tea.jpg	DISABLE
68	Paneer Makhni Pizza	185	Paneer Makhni Pizza	6	Paneer_Makhni.jpg	DISABLE
69	Breakfast Pizza	125	Yummy Breakfast Pizza	2	breakfast-pizza.jpg	ENABLE
70	Bagel Pizza	120	Yummy Bagel Pizza	2	bagel-pizza.jpg	ENABLE
71	Dessert Pizza	140	Yummy Desert Pizza	2	dessert-pizza.jpg	ENABLE
72	Pizza Romano	145	Yummy Pizza Romano	2	pizza-romano.jpg	ENABLE
73	Peppy Paneer Pizza	135	Yummy Peppy Paneer Pizza	2	Peppy_Paneer.jpg	ENABLE
74	Pizza	200	Good and Tasty	2	Pizza.jpg	DISABLE
75	French	65	Pure	2	frenchfries.jpg	DISABLE
76	Pakora	135	Pure Vegetable and Tasty.	2	images/Pakora.jpg	DISABLE
77	Veg Extravaganz	200	Yummy Veg Extravaganz	2	Veg_Extravaganz.jpg	ENABLE
78	Pizza All Italiana	175	Yummy Pizza All Italiana	2	pizza-all-Italiana.jpg	ENABLE
79	Greek Pizza	145	Yummy Greek Pizza	2	greek-pizza.jpg	ENABLE
80	Corn and Cheese Pizza	200	Yummy Corn and Cheese Pizza	2	Corn_and_Cheese.jpg	DISABLE
81	Corn and Cheese Pizza	200	Yummy Corn and Cheese Pizza	9	Corn_and_Cheese.jpg	ENABLE

The screenshot shows the phpMyAdmin interface for the 'order_details' database, specifically the 'customer' table. The table has 7 columns: username, fullname, email, contact, address, and password. The data is as follows:

username	fullname	email	contact	address	password
1234567898	aaa	aaa@gmail.com	1234567891	saqwe	aaa
ab	ab	ab@gmail.com	1234567891	ab	ab
abc	abc	Shreema16s@gmail.com	1234567891	nitte	abc
abcd	abcd	Shreema16s@gmail.com	1234567891	Karkala	abcd
abcdef	abcdef	Shreema16s@gmail.com	1234567891	nitte	abcdef
acbd	abc	abc@gmail.com	9876543652	45 Main Karkala	abcd
birju	BIRJU KUMAR	bkm123r@gmail.com	8903079750	Pondicherry University, SRK HOSTEL ROOM NUMBER-59,	Birju123@
ckumar	CHANDAN KUMAR	ckj40856@gmail.com	9487810674	Pondicherry University, SRK HOSTEL ROOM NUMBER-59,	Ckumar123@
nidha	nidha	nidha@gmail.com	998696572	Maharashtra	su hail
pratheek083	Pratheek Shiri	pratheek@gmail.com	8779546521	Hyderabad	pratheek
qqq	qqq	Shreema@gmail.com	1212121232	qqq	qqq
rakshith00	Rakshith Kotian	rakshith@gmail.com	9547123658	Gujarath	rakshith
shree	shreelata	shree@gmail.com	9008938531	Mandavi Acropolis, Udupi	shreelata
shreema	Shreema	Shreema16s@gmail.com	1234567891	nitte	shreema
zzz	zzz	Shreema@gmail.com	1212121232	Nitte	zzz

localhost/phpmyadmin/sql.php?server=1&db=order_details&table=orders&pos=0

Server: 127.0.0.1 » Database: order_details » Table: orders

Options: 1 > >> | ☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

	order_ID	F_ID	foodname	price	quantity	order_date	username	R_ID
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	58	Strawberry Balsamic Pizza	120	1	2020-12-18	abc	1
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	2	61	Detroit Pizza	180	2	2020-12-18	abc	1
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	3	61	Detroit Pizza	180	2	2020-12-18	abc	1
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	4	65	Sicilian Pizza	125	4	2020-12-18	ckumar	4
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	5	58	Strawberry Balsamic Pizza	120	7	2020-12-12	ckumar	1
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	6	65	Sicilian Pizza	125	2	2020-12-18	ckumar	4
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	7	58	Strawberry Balsamic Pizza	120	7	2020-12-18	ckumar	1
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	8	65	Sicilian Pizza	125	2	2020-12-18	ckumar	4
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	9	60	California Pizza	200	1	2020-12-12	ckumar	3
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	10	59	Neapolitan Pizza	160	1	2020-12-12	ckumar	2
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	11	60	California Pizza	200	1	2020-12-12	ckumar	3
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	12	65	Sicilian Pizza	125	1	2020-12-12	ckumar	4
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	13	59	Neapolitan Pizza	160	4	2020-12-12	ckumar	2
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	14	58	Strawberry Balsamic Pizza	120	1	2020-12-12	ckumar	1
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	15	60	California Pizza	200	4	2020-12-12	ckumar	3
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	16	65	Sicilian Pizza	125	1	2020-12-12	ckumar	4
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	17	66	Tea	20	7	2020-12-12	ckumar	4
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	18	59	Neapolitan Pizza	160	5	2020-12-12	birju	2
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	19	63	Chicago Deep Dish Pizza	175	1	2020-12-12	birju	3
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	20	68	Paneer Makhni Pizza	185	1	2020-12-12	birju	6
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	21	62	St Louis Pizza	165	1	2020-12-12	birju	2

localhost/phpmyadmin/sql.php?server=1&db=order_details&table=restaurants&pos=0

Server: 127.0.0.1 » Database: order_details » Table: restaurants

Showing rows 0 - 5 (6 total, Query took 0.0014 seconds)

SELECT * FROM `restaurants`

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

	R_ID	name	email	contact	address	M_ID
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	Nikhil's Restaurant	nikhil@restaurant.com	7998562145	Karnataka	aminnikhil073
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	2	Roshan's Restaurant	roshan@restaurant.com	9887546821	Bihar	roshanraj07
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	3	Aditi's Restaurant	aditi@restaurant.com	7778564231	Goa	aditi068
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	4	Food Exploria	ckj40856@gmail.com	09487810674	C:\xampp\htdocs\FoodExploria-master\images\coffee	ckumar
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	6	Le Cafe	lecafepondi234@gmail.com	9443369040	Pondicherry,rock beach Near,Le cafe	dhiraj
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	9	Quick Bites Malleshwaram	Quickbitesm@gmail.com	9876543211	Quick Bites Malleshwaram	sample1

☐ Check all With selected: ☐ Edit ☐ Copy ☐ Delete ☐ Export

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Query results operations

☐ Print ☐ Copy to clipboard ☐ Export ☐ Display chart ☐ Create view

Bookmark this SQL query

Label: ☐ Let every user access this bookmark

CHAPTER 7: CONCLUSION

Restaurant Management System is helpful in a lot of different ways. Some of these are daily, weekly or even monthly analysis of sales (Reports), Food Costing, Users and their Roles, ease of access for Customers, restaurant maintenance, etc.

Investing in cutting-edge technology like installing a highly efficient POS software would help one's restaurant immensely by delighting connoisseurs and adding up to their dining experience.

REFERENCES

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