

# VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"JNANA SANGAMA", BELGAUM-590018



A Mini Project Report on

## "Food Order Management System"

A Mini Project report submitted to the V Semester degree of Bachelor of Engineering in Computer Science of Visvesvaraya Technological University, Belgaum

Submitted by

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

University B. D. T. Engineering College, Davanagere-577004

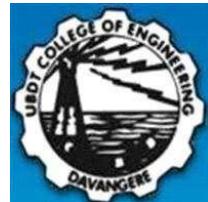
2022-2023



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DAVANAGERE-577004

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



CERTIFICATE

Certified that the mini project work entitled "**Food Order Management System**" has been successfully carried out by **SINCHANA P (4UB20CS043)** student of Computer Science & Engineering Department, University B. D. T. College of Engineering in partial fulfillment for the award of Bachelor of Engineering in Computer Science & Engineering Department in Visvesvaraya Technological University, Belgaum during academic year 2020-2021. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The mini project report has been approved as it satisfies the academic requirements in respect of mini project work prescribed for the degree.

---

Signature of Guide

Smt. Kanyakumari K T

Dept. of CS&E, UBDTCE

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Signature of HOD

Dr. Shreedhara K S

Chairman & HOD

Dept. of CS&E UBDTCE

External Exam

Name of the Examiner

1) \_\_\_\_\_

2) \_\_\_\_\_

Signature and Date

1) \_\_\_\_\_

2) \_\_\_\_\_



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## DECLARATION

I am Student of V Semester BE, in Computer Science & Engineering, University B. D. T. Engineering College, Davangere hereby declare that the mini project entitled "Food Order Management System" has been carried out under the guidance of Ms. Kanyakumari and submitted in partial fulfillment of the requirements for the V Semester Bachelor's degree in Computer Science & Engineering of Visvesvaraya Technological University, Belgaum during academic year 2022–2023.

SINCHANA P [4UB20CS043]



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## ABSTRACT

In the world of digitalization, we have always strived to achieve efficiency in terms of time and space. The Food Order Management System enhances the speed and standardization of taking the order by just a click, saving both the efforts and time of the customers. This way of management system makes it more convenient for managers to manage orders, collect, analyze data and provide better service. The demand of combining the convenience of digital business with traditional delivery service is increasingly growing.

The food order system sets up the menu online and the customers easily places the order. Customer can choose and explore one or more items to place an order. At the end, customer gets order confirmation message. The user's orders are maintained in the admin panel. Customers can add ratings and can write review about the various experiences of the food and the services.

Online food ordering system, greatly simplifies the ordering process for both the customer and the restaurant. Once the order is placed it is entered in the database and retrieved in pretty much real time. This allows restaurant employees to quickly go through the orders as they are received and process all orders efficiently and effectively with minimal delays and confusion. The admin can update about the food which is featured and active. It also allows them to keep track of whether the order is delivered, being delivered or cancelled.

This project contains entity relationship model diagram and introduction to relation model. There is also design of the database of food order management system based on relation model.



## ACKNOWLEDGEMENT

The satisfaction and euphoria that accompany the successful completion of any task would be incomplete without the mention of the people who made it possible, whose constant guidance and encouragement crowned the efforts with success.

We would like to profoundly thank University B. D. T. Engineering College, Davangere for providing such a healthy environment for the successful completion of project work.

It gives us immense pleasure to thank Dr. Shreedhara K S Professor and Head of Department for his constant support and encouragement.

Also, we would like to express my deepest sense of gratitude to my guides Smt. Kanyakumari K T Lecturer, Department of Computer Science & Engineering for their constant support and guidance throughout the work.

We would also like to thank the Department of Computer Science & Engineering and all other teaching and non-teaching staff of Computer Science Department who has directly or indirectly helped me in the completion of the project work.

Last, but not the least, we would hereby acknowledge and thank my parents and friends who have been a source of inspiration and also instrumental in the successful completion of the project work.



## INTRODUCTION

The main purpose of maintaining database for Food Order Management Systems is to reduce the manual errors involved in the booking and cancelling of orders and make it convenient for the customers and providers to maintain the data about their customers and about the food available at them. Due to automation many loopholes that exist in the manual maintenance of the records can be removed.

The speed of obtaining and processing the data will be fast, allowing the end user to interact with the system through a rich interface provide a much more enjoyable user experience, particularly for the non-technical users which will account for the majority of the system's users.

In addition, this isolation layer also protects the integrity of the database by preventing users from taking any action outside those which the system is designed to handle. Because of this design pattern, it is essential to enumerate exactly which functions a user will be presented and these functions are outlined below, grouped by component.

The Food Order Management System facilitates the passengers to explore about the foods available on the basis of featured and active criteria, ordering of the food and cancelling it, enquiring about the status of the ordered food, etc.

The aim of case study is to design and develop a database maintaining the records of different orders, food status, and customers. The record of customer includes their number, name, email, phone, address and status based on which the customer order is delivered, being delivered or cancelled.





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# REQUIREMENTS

## 2.1 HARDWARE REQUIREMENTS

Processor	:	Intel Core Duo 2.0 GHz or more
RAM	:	1 GB or More
Hard disk	:	80GB or more
Monitor	:	15" CRT or LCD monitor
Keyboard	:	Normal or Multimedia
Mouse	:	Compatible mouse

## 2.2 SOFTWARE REQUIREMENTS

Front End	:	Visual Basic 2005 Express edition with SQL Server compact edition Microsoft SDK (2.0 or 3.0)
Back End	:	MySQL server, PHP, HTML, CSS Operating
System	:	Windows 32 or 64 bits
Server	:	Google Chrome



# SYSTEM DESIGN AND ANALYSIS

## Schema Diagram

tbl\_admin

id	full_name	username	password
----	-----------	----------	----------

tbl\_category

id	title	image_name	featured	active
----	-------	------------	----------	--------

tbl\_food

id	title	description	price	image_name	category_id	featured	active
----	-------	-------------	-------	------------	-------------	----------	--------

tbl\_order

id	food	price	qty	total	order_date	status	customer_name	customer_contact	customer_email	customer_address
----	------	-------	-----	-------	------------	--------	---------------	------------------	----------------	------------------

tbl\_review

id	name	email	review
----	------	-------	--------



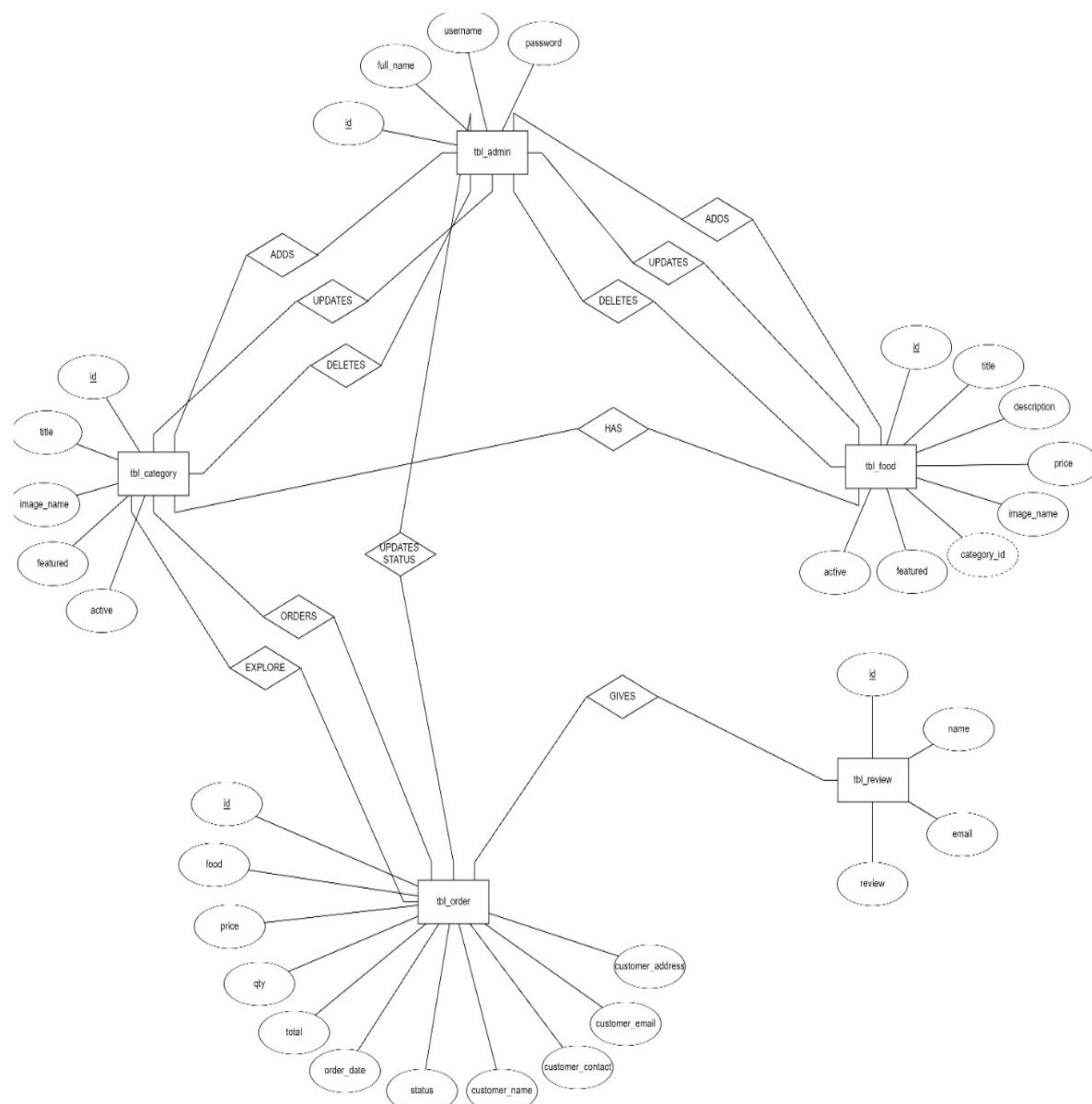
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## ER Diagram

The entity-relationship data model is based on a perception of a real world that consists of a collection of basic objects called entities and of relationships among these objects. An entity is an “object” in the real world that is distinguishable from other objects.

For e.g., each customer is an entity and foods can be considered to be entities. Entities are described by a set of attributes.

For e.g., the attributes username and password describes a particular credential for customer or admin. The set of all entities of the same type and the set of all relationships of the same type are termed as an entity set and relationship set respectively.



# IMPLEMENTATION

## Users of the web Ordering system:

These users must be provided with the following functionality:

- Create an account.
- Manage their account.
- Log in to the system.
- Navigate the restaurant's menu.
- Select an item from the menu.
- Customize options for a selected item.
- Add an item to their current order.
- Review their current order.
- Remove an item/remove all items from their current order.
- Place an order.
- Receive confirmation in the form of an order number

By not including extraneous functions, I am moving towards my goal of simplifying the ordering process.

## Admin Management System:

The menu management system will be available only to restaurant employees/admin. The functions afforded by the menu management system provide user with the ability to, using a graphical interface:

- Add a new/update/delete vendor to/from the menu.
- Add a new/update/delete food category to/from the menu.
- Add a new/update/delete food item to/from the menu.
- Add a new/update/delete option for a given food item.
- Update price for a given food item.



- Update default options for a given food item.
- Update additional information (description, photo, etc.) for a given food item.

Of the three components, the order retrieval system is functionally the simplest. Like the menu management system, it is designed to be used only by restaurant employees, and provides the following functions:

- Retrieve new orders from the database.
- Display the orders in an easily readable, graphical way.
- Mark an order as having been processed and remove it from the list of active orders.

It is anticipated that the functionality provided by this component will be one of the first things noted by the restaurant user, as they will have to go through it to configure their menu, etc. before beginning to actually take orders.



# TESTING

Test case: Admin and customer login into the system

Input	Expected result	Actual result
Click on the order button without entering name and address.	Appropriate message must be displayed to the customer.	User friendly error message is displayed to customer and admin.
Typing irrelevant food keywords in the search bar menu.	Appropriate message must be displayed to the customer.	It gives the user friendly message by displaying erroneous
Click on add Admin button without entering the username and password.	Appropriate message must be displayed to the admin.	User friendly message is displayed to admin.
Click on the change password button without knowing the current password.	Appropriate message must be displayed to the admin.	User friendly message is displayed to the admin.



# TABLES

Table structure for table `tbl\_admin`

```
CREATE TABLE `tbl_admin` (
  `id` int(10) UNSIGNED NOT NULL,
  `full_name` varchar(100) NOT NULL,
  `username` varchar(100) NOT NULL,
  `password` varchar(255) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8 COLLATE=utf8_general_ci;
```

Table structure for table `tbl\_category`

```
CREATE TABLE `tbl_category` (
  `id` int(10) UNSIGNED NOT NULL,
  `title` varchar(100) NOT NULL,
  `image_name` varchar(255) NOT NULL,
  `featured` varchar(10) NOT NULL,
  `active` varchar(10) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8 COLLATE=utf8_general_ci;
```

Table structure for table `tbl\_food`

```
CREATE TABLE `tbl_food` (
  `id` int(10) UNSIGNED NOT NULL,
  `title` varchar(150) NOT NULL,
  `description` text NOT NULL,
  `price` decimal(10,2) NOT NULL,
  `image_name` varchar(255) NOT NULL,
  `category_id` int(11) NOT NULL,
  `featured` varchar(10) NOT NULL,
  `active` varchar(10) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8 COLLATE=utf8_general_ci;
```



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### Table structure for table `tbl\_order`

```
CREATE TABLE `tbl_order` (
  `id` int(10) UNSIGNED NOT NULL,
  `food` varchar(150) NOT NULL,
  `price` decimal(10,2) NOT NULL,
  `qty` int(11) NOT NULL,
  `total` decimal(10,2) NOT NULL,
  `order_date` datetime NOT NULL,
  `status` varchar(50) NOT NULL,
  `customer_name` varchar(150) NOT NULL,
  `customer_contact` varchar(20) NOT NULL,
  `customer_email` varchar(150) NOT NULL,
  `customer_address` varchar(255) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8 COLLATE=utf8_general_ci;
```

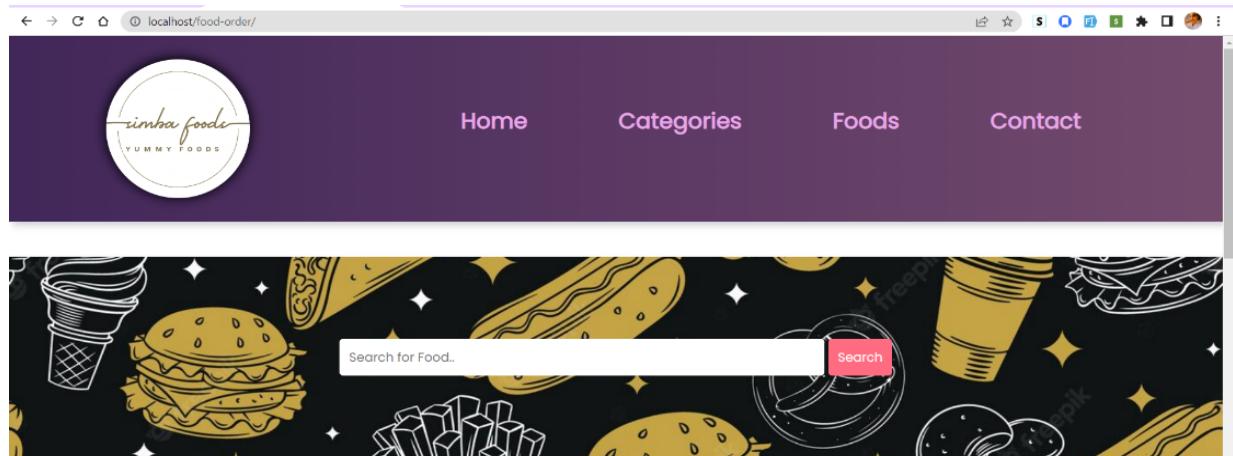
### Table structure for table `tbl\_review`

```
CREATE TABLE `tbl_review` (
  `id` int(10) UNSIGNED NOT NULL,
  `name` varchar(250) NOT NULL,
  `email` varchar(200) NOT NULL,
  `review` varchar(255) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8 COLLATE=utf8_general_ci;
```



# SNAPSHOTS

Home Page:



## Explore Foods



pizza



Burger



Momos

## Food Menu



olives pizza

313.00

Delicious pizza with olives



Pepperoni pizza

863.00

pepperoni loaded pizza



olives pizza

313.00

Delicious pizza with olives

[Order Now](#)



Pepperoni pizza

863.00

pepperoni loaded pizza

[Order Now](#)



Cheese burger

719.00

Cheese burst burger

[Order Now](#)



Ham burger

196.00

Yummy ham burger

[Order Now](#)



veg sandwich

457.00

Veggies stuffed sandwich

[Order Now](#)



Steamed momos

562.00

Steamed hot momos for your breakfast

[Order Now](#)

[See All Foods](#)

## Category Page:

The screenshot shows a purple header with the logo 'simba foods YUMMY FOODS'. Below the header is a section titled 'Explore Categories' featuring five food items with images and labels: 'pizza', 'Burger', 'Momos', 'Sandwich', and 'Samosa'.

## Foods Page:

The screenshot shows a purple header with the logo 'simba foods YUMMY FOODS'. Below the header is a search bar with the placeholder 'Search for Food...' and a 'Search' button. The main content area is titled 'Food Menu' and displays eight food items in a grid format:

Food Item	Description	Price
olives pizza	Delicious pizza with olives	313.00
Cheese burst burger	Cheese burst burger	719.00
veg sandwich	Veggies stuffed sandwich	457.00
Samosa	Veg stuffed samosa	230.00
Motu Samosa	Special hot samosa for your snacks	200.00
Pepperoni pizza	pepperoni loaded pizza	863.00
Yummy ham burger	Yummy ham burger	196.00
Steamed momos	Steamed hot momos for your breakfast	562.00
Double cheese ham burger	Doubly loaded extra cheese burger	560.00
Veg momos	Healthy veggies momos	200.00



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## Food Order Page:

Fill this form to confirm your order.

selected Food

Cheese burger  
718.00  
Quantity  
1

Delivery Details

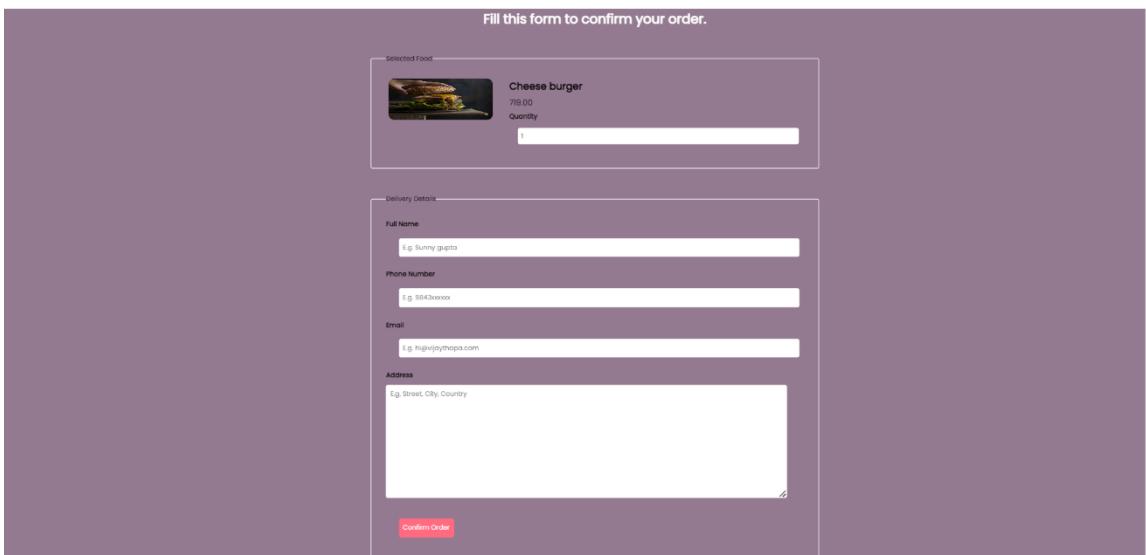
Full Name  
E.g. Sunny gupta

Phone Number  
E.g. 9843xxxxx

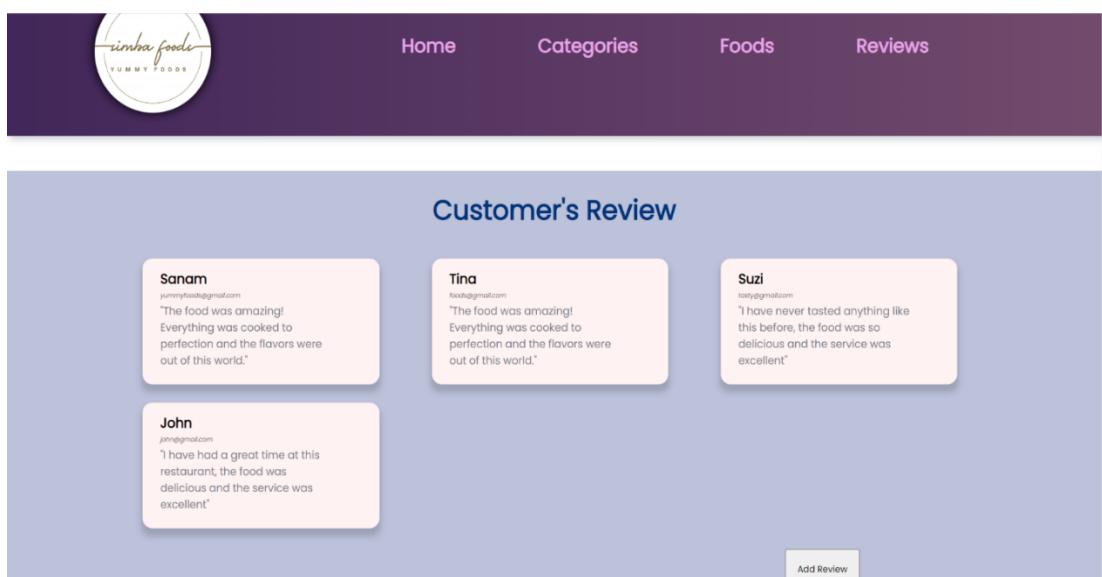
Email  
E.g. hui@yummypizza.com

Address  
E.g. Street, City, Country

Confirm Order



## Customer Reviews Page:



The screenshot shows a website layout for a food delivery service. At the top is a dark purple header with the logo 'simba foods' (featuring a stylized lion head) on the left and five navigation links: Home, Categories, Foods, and Reviews. Below the header is a light blue main content area titled 'Customer's Review'. It contains four white rectangular cards, each representing a customer review. The reviews are as follows:

- Sanam** (yummypizza@gmail.com)  
"The food was amazing! Everything was cooked to perfection and the flavors were out of this world."
- Tina** (food@gmail.com)  
"The food was amazing! Everything was cooked to perfection and the flavors were out of this world."
- Suzi** (tasty@gmail.com)  
"I have never tasted anything like this before, the food was so delicious and the service was excellent!"
- John** (john@gmail.com)  
"I have had a great time at this restaurant, the food was delicious and the service was excellent"

In the bottom right corner of the main content area, there is a small button labeled 'Add Review'.



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*Add Review Page:*

### Add Review

Customer Name :

Customer Email :

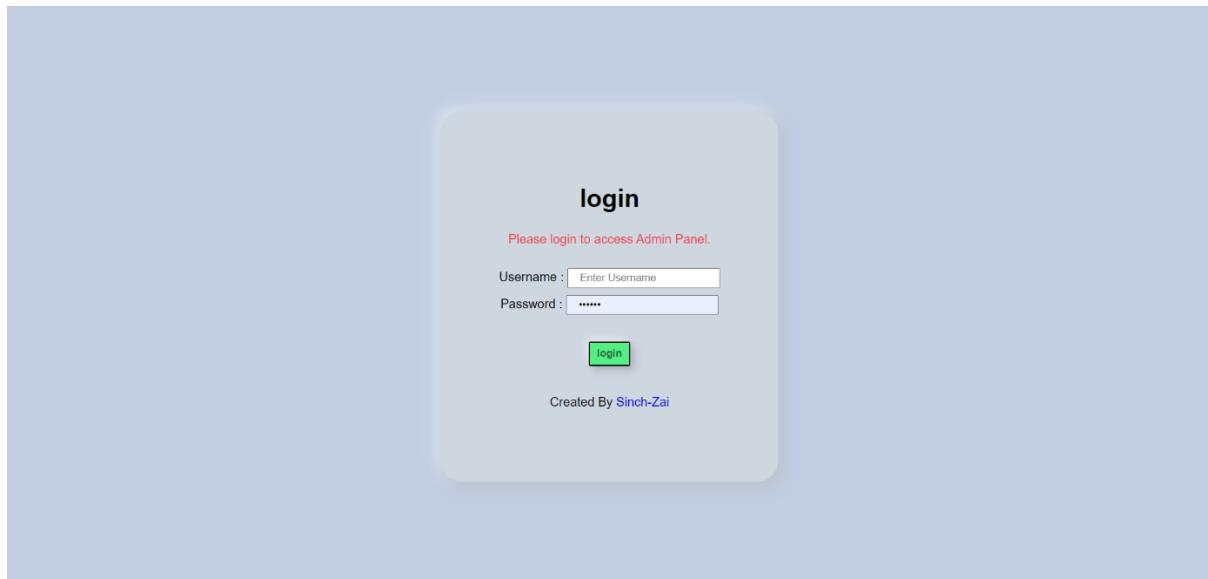
Customer Review :



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## Admin Panel Snapshots

### *Admin Login Page:*



### *Admin Dashboard:*

The image shows a dark blue header bar with white text for navigation: "HOME", "ADMIN", "CATEGORY", "FOOD", "ORDER", and "LOGOUT". Below the header is a light gray dashboard area. In the center, the word "DASHBOARD" is displayed above a message "Login successfully." in green. Below this are four white rectangular boxes with rounded corners, each containing a large number and a descriptive label: "5 Categories", "10 Foods available", "7 Total Orders", and "\$1592.00 Revenue Generated". At the bottom of the page, a red footer bar contains the text "2023 All rights reserved. Simba Restaurant. Developed By [Sinchana & Zaiba](#) together we are Simba 🐾".



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### Manage Admin:

The screenshot shows a web application interface titled "Manage Admin". At the top, there is a navigation bar with links: HOME, ADMIN, CATEGORY, FOOD, ORDER, and LOGOUT. Below the navigation bar, the main content area has a title "Manage Admin" and a "Add Admin" button. A table lists two entries:

SI.NO	Full Name	Username	Actions		
1.	Sinchana P Gudagi	Sinchana	<a href="#">Change Password</a>	<a href="#">Update Admin</a>	<a href="#">Delete Admin</a>
2.	Umme Zaiba	Zaiba	<a href="#">Change Password</a>	<a href="#">Update Admin</a>	<a href="#">Delete Admin</a>

At the bottom of the page, there is a red footer bar containing the text "2023 All rights reserved, Simba Restaurant. Developed By Sinchana & Zaiba together we are Simba 😊".

### Add Admin:

The screenshot shows a web application interface titled "Add Admin". At the top, there is a navigation bar with links: HOME, ADMIN, CATEGORY, FOOD, ORDER, and LOGOUT. Below the navigation bar, the main content area has a title "Add Admin". A form is displayed with three input fields:

Full Name:

Username:

Password:

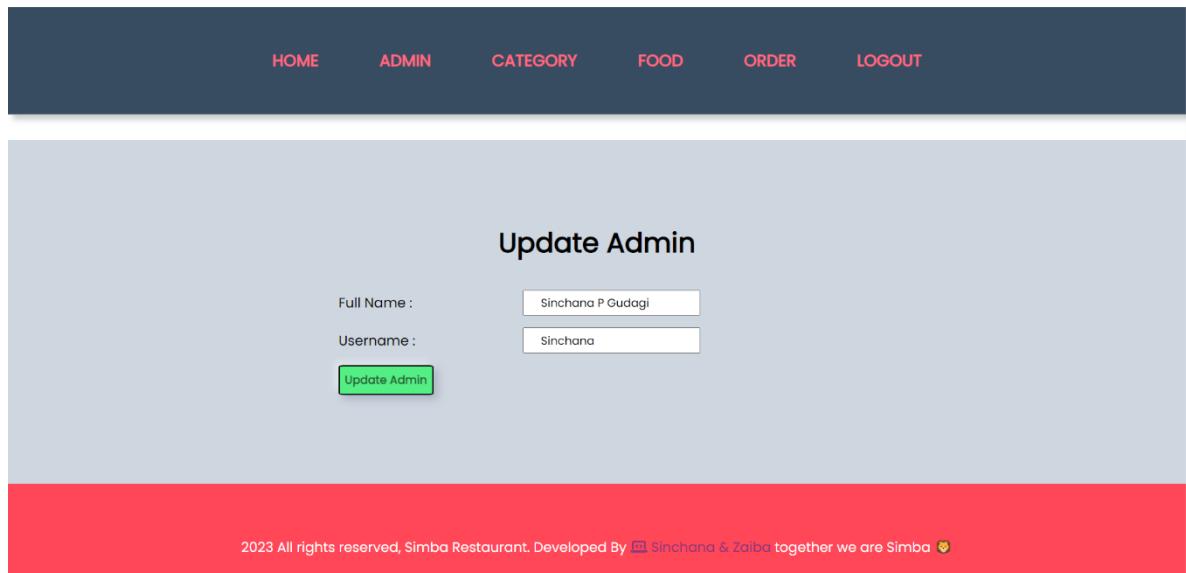
[Add Admin](#)

At the bottom of the page, there is a red footer bar containing the text "2023 All rights reserved, Simba Restaurant. Developed By Sinchana & Zaiba together we are Simba 😊".



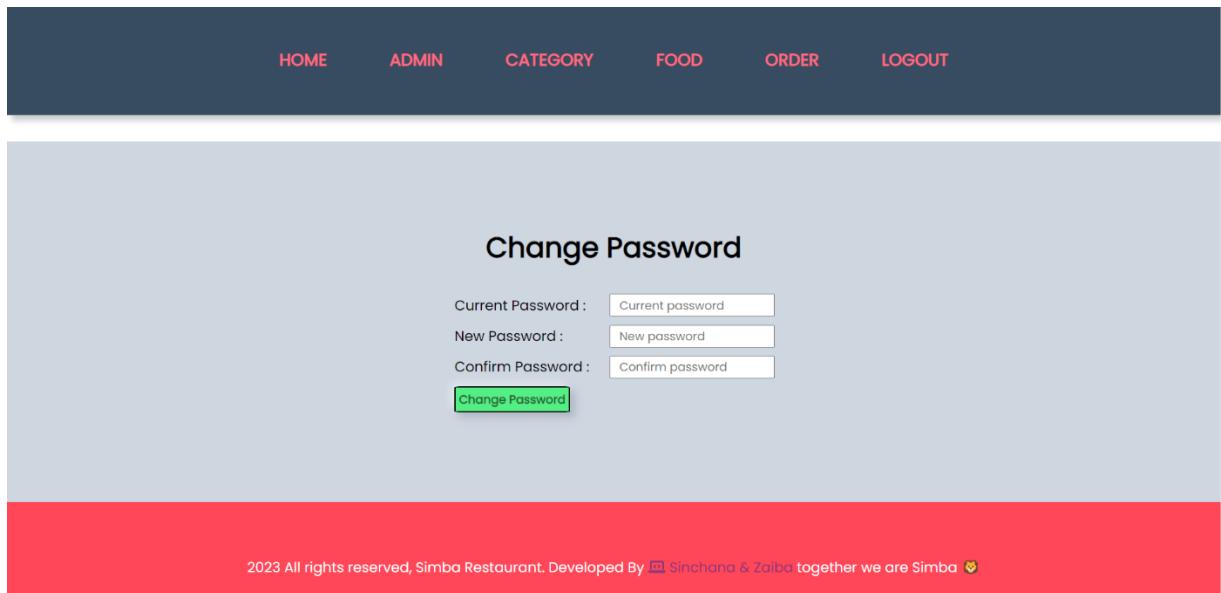
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***Update Admin:***



The screenshot shows a web page titled "Update Admin". At the top, there is a dark blue header bar with white text links: HOME, ADMIN, CATEGORY, FOOD, ORDER, and LOGOUT. Below the header, the main content area has a light gray background. In the center, the title "Update Admin" is displayed in bold black font. Below the title, there are two input fields: "Full Name :" with the value "Sinchana P Gudagi" and "Username :" with the value "Sinchana". A green rectangular button labeled "Update Admin" is positioned below these fields. At the bottom of the page, a red footer bar contains the text "2023 All rights reserved, Simba Restaurant. Developed By Sinchana & Zaiba together we are Simba" followed by a small Simba logo.

***Update Password:***



The screenshot shows a web page titled "Change Password". At the top, there is a dark blue header bar with white text links: HOME, ADMIN, CATEGORY, FOOD, ORDER, and LOGOUT. Below the header, the main content area has a light gray background. In the center, the title "Change Password" is displayed in bold black font. Below the title, there are three input fields: "Current Password :" with the placeholder "Current password", "New Password :" with the placeholder "New password", and "Confirm Password :" with the placeholder "Confirm password". A green rectangular button labeled "Change Password" is positioned below these fields. At the bottom of the page, a red footer bar contains the text "2023 All rights reserved, Simba Restaurant. Developed By Sinchana & Zaiba together we are Simba" followed by a small Simba logo.



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### Manage Category:

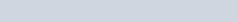
Screenshot of the 'Manage Category' page. The page title is 'Manage Category'. It features a table with columns: SLNO, Title, Image, Featured, Active, and Actions. Three categories are listed: 1. pizza (Image: pizza slice), 2. Burger (Image: burger on a bun), and 3. Momos (Image: momos in a tray). Each row has 'Update Category' and 'Delete Category' buttons.

SLNO	Title	Image	Featured	Active	Actions
1.	pizza		yes	yes	<button>Update Category</button> <button>Delete Category</button>
2.	Burger		yes	yes	<button>Update Category</button> <button>Delete Category</button>
3.	Momos		yes	yes	<button>Update Category</button> <button>Delete Category</button>

### Add Category:

Screenshot of the 'Add Category' page. The page title is 'Add Category'. It contains form fields: Title (Category title), Select Image (Choose File, No file chosen), Featured (radio buttons: yes, No), Active (radio buttons: yes, No), and an 'Add Category' button. A red footer bar at the bottom contains the text: 2023 All rights reserved, Simba Restaurant. Developed By  together we are Simba .

### Update Category:

Screenshot of the 'Update Category' page. The page title is 'Update Category'. It shows the current category details: Title (pizza), Current Image (Image of a pizza slice), New Image (Choose File, No file chosen), Featured (radio buttons: Yes, No), and Active (radio buttons: Yes, No). An 'Update Category' button is at the bottom. A red footer bar at the bottom contains the text: 2023 All rights reserved, Simba Restaurant. Developed By  together we are Simba .



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## Manage Food:

Manage Food								
Add Food		SLNO	Title	Price	Image	Featured	Active	Actions
1	olives pizza	313.00		yes	yes	<a href="#">Update Food</a>	<a href="#">Delete Food</a>	
2	Pepperoni pizza	863.00		yes	yes	<a href="#">Update Food</a>	<a href="#">Delete Food</a>	
3	Cheese burger	719.00		yes	yes	<a href="#">Update Food</a>	<a href="#">Delete Food</a>	

## Add Food:

HOME		ADMIN		CATEGORY		FOOD		ORDER		LOGOUT	
Add Food											
Title :	<input type="text" value="Title of the food..."/>			Description :	<input type="text" value="Description of the food..."/>			Price :	<input type="text"/>		
Select Image :	<input type="file" value="Choose File"/> No file chosen			Category :	<input type="text" value="pizza"/>			Featured :	<input type="radio"/> Yes <input type="radio"/> No	Active :	<input type="radio"/> Yes <input type="radio"/> No
<input type="button" value="Add Food"/>											

## Update Food:

HOME		ADMIN		CATEGORY		FOOD		ORDER		LOGOUT	
Update Food											
Title :	<input type="text" value="olives pizza"/>			Description :	<input type="text" value="Delicious pizza with olives"/>			Price :	<input type="text" value="313.00"/>		
Current Image :				Select Image :	<input type="file" value="Choose File"/> No file chosen			Category :	<input type="text" value="pizza"/>		
Featured :	<input checked="" type="radio"/> Yes <input type="radio"/> No	Active :	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input type="button" value="Update Food"/>							



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## Manage Order:

Sl.No	Food	Price	Qty	Total	Order Date	Status	Customer Name	Contact	Email	Address	Actions
1.	Steamed momos	562.00	263	147806.00	2023-01-27 09:55:19	Ordered	Lenore Mclean	+1 (472) 556-6398	qudegatu@mailinator.com	Totam qui quoerat qu	<a href="#">Update Order</a>
2.	Double cheese ham burger	560.00	1	560.00	2023-01-13 11:01:32	Delivered	Soni	34343	order@gmail.com	Davangere	<a href="#">Update Order</a>
3.	Pepperoni pizza	863.00	1	863.00	2023-01-13 10:21:47	Ordered	Zinpreet	56565	Zinpreet@gmail.com	Davangere	<a href="#">Update Order</a>
4.	Motu Samosa	200.00	1	200.00	2023-01-13 10:20:27	On Delivery	Payal	67676	delicious@gmail.com	Banglore	<a href="#">Update Order</a>
5.	Steamed momos	562.00	1	562.00	2023-01-13 10:18:50	Cancelled	Sofiya	34343	yum@gmail.com	Davangere	<a href="#">Update Order</a>
6.	veg sandwich	457.00	1	457.00	2023-01-13 10:18:11	Cancelled	Shreya	78787	myfoods@gmail.com	Delhi	<a href="#">Update Order</a>
7.	Cheese burger	719.00	1	719.00	2023-01-13 10:17:36	Delivered	Sonam	12345	foods@gmail.com	Mumbai	<a href="#">Update Order</a>

## Update Order:

Food Name: Steamed momos  
Qty: 263  
Status: Ordered

[Update Order](#)

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## CONCLUSION

The food order management system is more efficient, fast, reliable, user friendly. Over and above the proposed system does not have any possibility of data loss during processing. The food system will serve as a useful and secure approach for ordering the food among various categories or selected food items and quantity. It provides easy way for the admin to manage various food items ordered by the customers and updating appropriate status to see the current activity.



## FUTURE ENHANCEMENT

The following section describes the work that will be implemented with future releases of the software.

- ✓ Customize orders: Allow customers to customize food orders Online Food Ordering System Page 114
- ✓ Enhance User Interface by adding more user interactive features. Provide Deals and promotional
- ✓ Offer details to home page. Provide Recipes of the Week/Day to Home Page
  - ✓ Payment Options: Add different payment options such as PayPal, Cash, Gift Cards etc. Allow to save payment details for future use.
- ✓ Allow to process an order as a Guest
- ✓ Delivery Options: Add delivery option
- ✓ Order Process Estimate: Provide customer a visual graphical order status bar
- ✓ Order Status: Show only Active orders to Restaurant Employees.
- ✓ Order Ready notification: Send an Order Ready notification to the customer
- ✓ Restaurant Locator: Allow to find and choose a nearby restaurant
- ✓ Integrate with In store touch screen devices like iPad
- ✓ Making a mobile app for the user is also a first step development.



## BIBLIOGRAPHY

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3. [www.codeacademy.com](http://www.codeacademy.com)
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