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# RESTAURANT MANAGEMENT SYSTEM

By Group No. 6

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# Abstract

This report is meant for describing all the features and procedures that were followed while developing the project. This report specially mentions the details of the project how it was developed, the primary requirement as well as various features and functionalities of the project and the procedures followed in achieving these objectives. This system helps in conducting information quickly and can thus help in saving time and the operations will be carried out efficiently. With the objectives used any business can apply the “Restaurant Management System” for conducting quick operations and getting better results in less time.

# Certificate

This is to certify that we are students of B.Sc. in CSE have completed the report work titled “Restaurant Management System” satisfactory in partial for the requirement of B.Sc. in CSE Bangladesh university of Business and Technology in the year 2019.

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## Acknowledgements

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# Approval

This project report submitted by our team, Department of Computer Science and Engineering (CSE), Bangladesh University of Business and technology (BUBT) under the supervision of c, lecturer of Department CSE has been accepted as satisfactory for the partial fulfillment of the requirement for the degree of bachelor of Science (B.Sc. Eng.) in Computer Science and approved as to its style and contents.

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# Introduction

The project **Restaurant Management System** is a web base application for giving order foods and managing food information. The project **Restaurant Management System** is developed on php language which mainly focuses on basic operation and MySQL for database management system for an online food marketplace like - adding new food item, updating information of food, searching food menu of ordering food online and managing order of customers and calculate total sales amount of the website. **Restaurant Management System** is a web application designed to help admin to maintain and organize online market system. Our system is easy to use for both beginners and advanced users. It features a familiar and well thought-out, an attractive user interface, combined with strong searching, insertion and deletion capabilities.

# Projective Objectives

- 1. Tracking Orders** A good system will help you keep track of your online orders and offer a centralized view
- 2. Reduce the Time for managing orders:** With a good order management solution, you can reduce the time taken to keep track of all the orders you have on hand. Additionally, you save the time taken up in inventory recounts if your records are in place.
- 3. Easy access to information:** In this system any one can easily access food information whenever they need, All the information are available to all visitors.

## Motivations

The main objective of the project is to provide a friendly environment to receive online orders, maintain orders details of food and manage food information. The main purpose of this project is to replace the manual work. Restaurant Management System is a project which aims is developing a online marketplace for food and maintain all the work of a delivery and record previous orders. We can easily add new item and new users can register easily. It has secured database and moderators and users can only login with a unique ID and a password.



# System Features

**1. Multiple Users:** This system supports multiple moderators. Each moderator has to create their account by giving their details. They have to use their username and password when logging in. They manage all the food item, users and online orders.

**2. Add, Update and Delete item:** Moderators can update any food information. They can also delete information of any item. The process is very simple. Users have to type in the information and press the update or delete button. They can also add new food item.

**3. User registration:** One can easily create an account and order foods online. The process is very easy and user friendly.

**4. Receive online orders:** Users can place orders online and they can update or delete existing orders.

**5. Update and Delete user:** Moderators can update existing user's information and delete them if necessary.

**6. Food details:** This site has all the necessary information about foods for all types of users. Users can see the available item and can order which they want.

**7. Orders history:** This system keeps detailed record of each sell. It is very helpful to find out which products are doing well and which products are not. By keeping track of this, a business can be decided which products should they stock more and which products they should stock less. It will reduce cost and prevents shortage of demanded products.

# E-R DIAGRAM

An entity relationship diagram (ERD) shows the relationships of entity sets stored in a database. An entity in this context is an object, a component of data. An entity set is a collection of similar entities. These entities can have attributes that define its properties. The ER or (Entity Relational Model) is a high-level conceptual data model diagram. Entity-Relation model is based on the notion of real-world entities and the relationship between them. E-R diagram shows us the entire relationship between all the entities those are used in our project. Here we used total seven entities and each entity has several attributes for example, User has user id as primary key in this entity, user name, phone no, password, email & address. Here, dishes provide us the information about all food items. Users order help us to show the orders details.

## Front-end Designs:

We have used PHP for front-end development. We have designed this site as user friendly as we could.

### Home page:

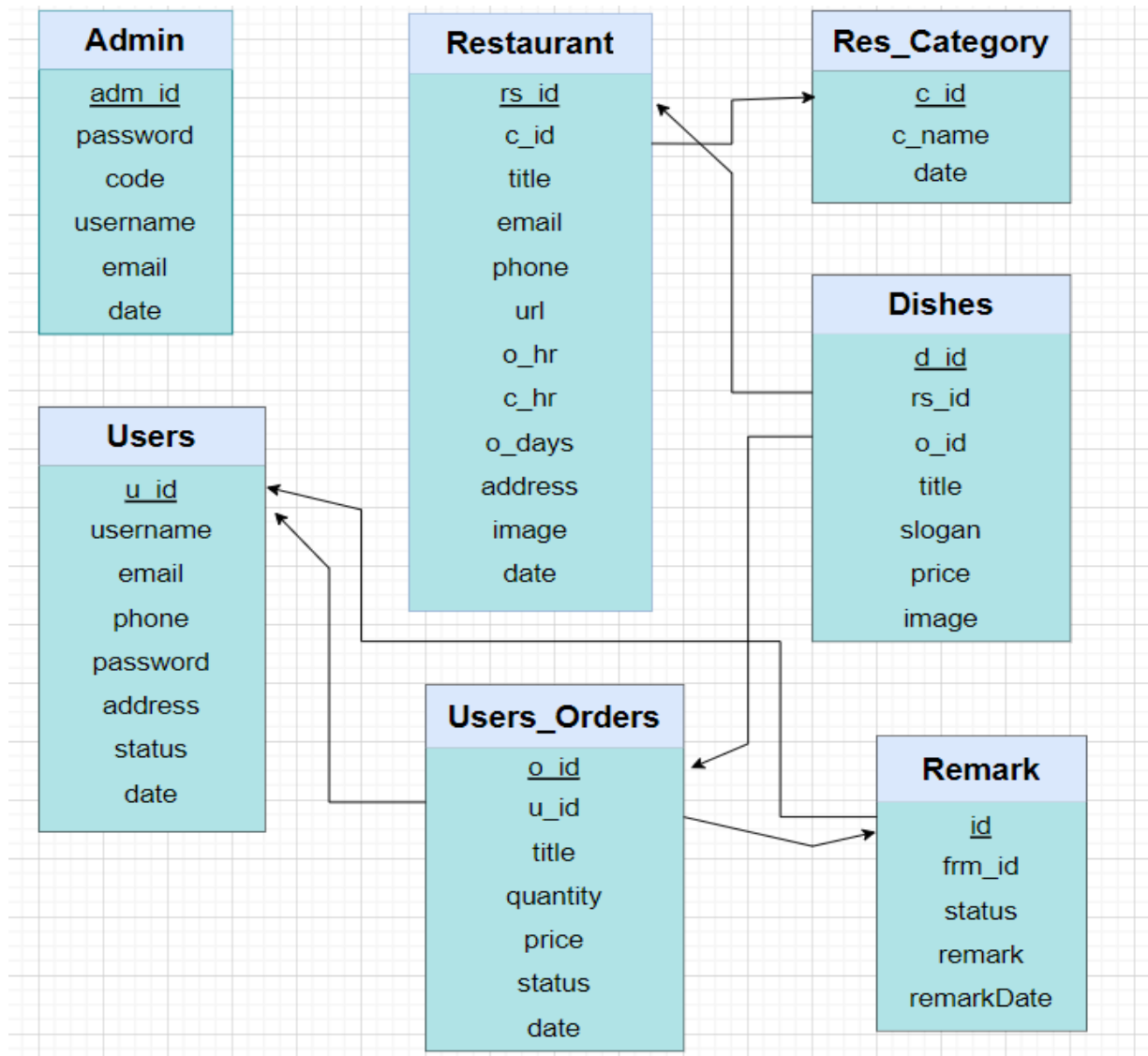
This is the landing page of our project. It shows all the popular dishes of the month. It has

- Log in and sign up option. Restaurant option that contains all the details about restaurant.

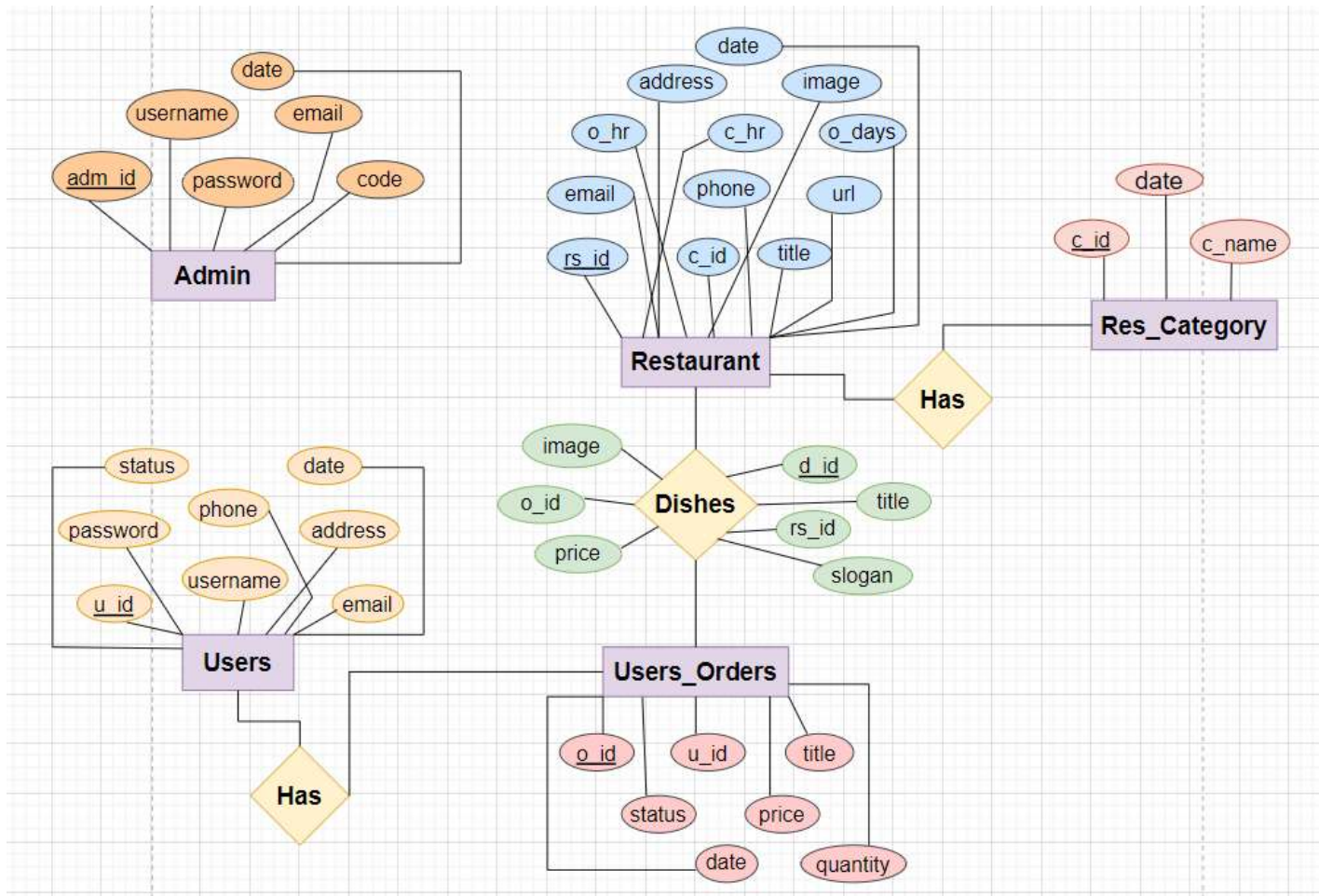
## **Admin Home page**

This page is only for admin. Here an admin can

- See all details of any user
- Add any restaurant
- Add any new food item
- See all orders details



**Figure-1:** Restaurant Management System Schema Diagram



**Figure-2:** Restaurant Management System ER Diagram

Server: 127.0.0.1 x Database: res\_final\_db

Structure SQL Search Query Export Import Operations Privileges Routines Events

Filters

Containing the word:

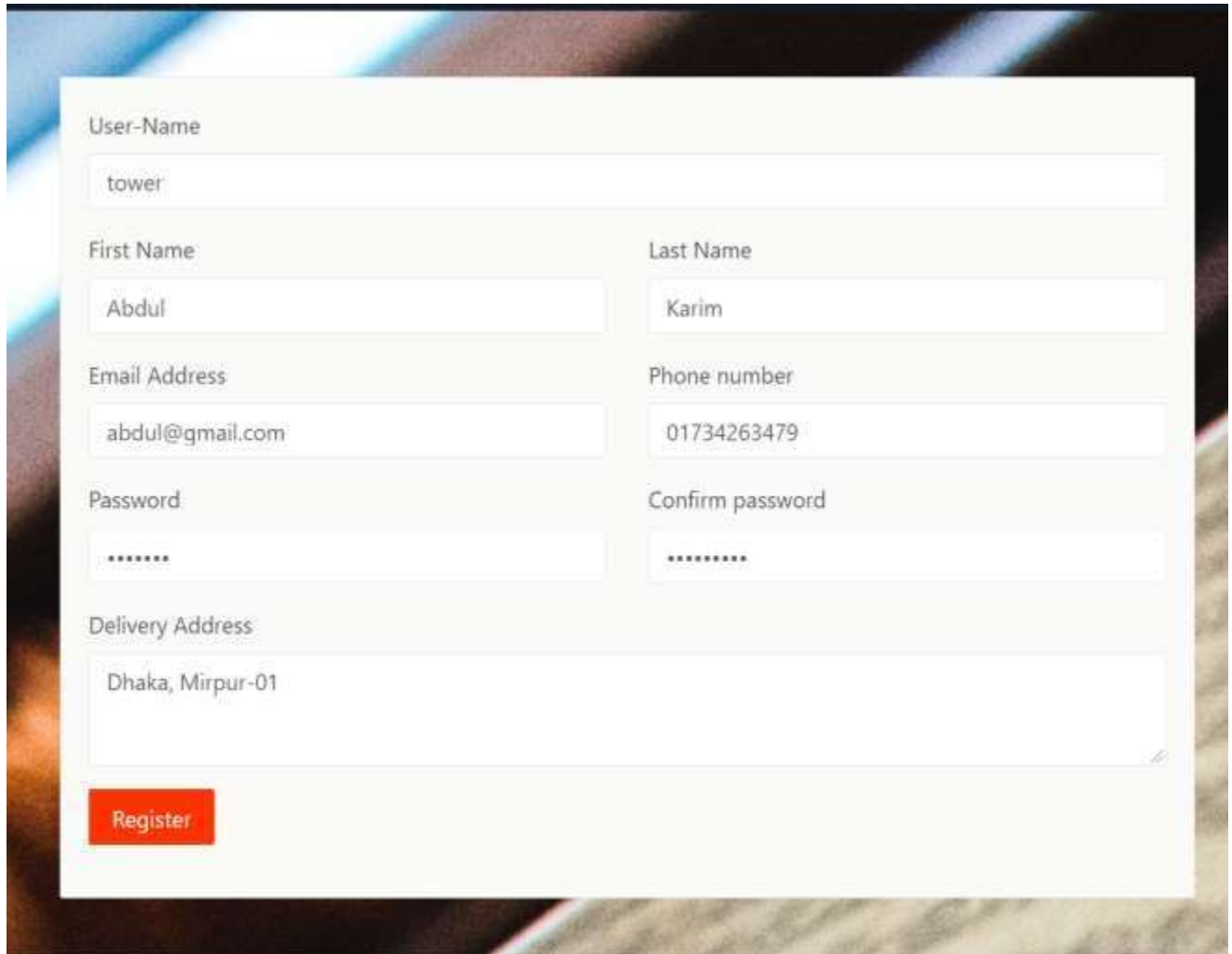
Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/> admin	★ Browse Structure Search Insert Empty Drop	1	InnoDB	latin1_swedish_ci	16.0 KiB	-
<input type="checkbox"/> dishes	★ Browse Structure Search Insert Empty Drop	16	InnoDB	latin1_swedish_ci	16.0 KiB	-
<input type="checkbox"/> remark	★ Browse Structure Search Insert Empty Drop	0	InnoDB	latin1_swedish_ci	16.0 KiB	-
<input type="checkbox"/> restaurant	★ Browse Structure Search Insert Empty Drop	4	InnoDB	latin1_swedish_ci	16.0 KiB	-
<input type="checkbox"/> res_category	★ Browse Structure Search Insert Empty Drop	0	InnoDB	latin1_swedish_ci	16.0 KiB	-
<input type="checkbox"/> users	★ Browse Structure Search Insert Empty Drop	2	InnoDB	latin1_swedish_ci	16.0 KiB	-
<input type="checkbox"/> users_orders	★ Browse Structure Search Insert Empty Drop	2	InnoDB	latin1_swedish_ci	16.0 KiB	-
7 tables	Sum	25	InnoDB	utf8mb4_general_ci	112.0 KiB	0 B

**Figure-3:** Restaurant Management System Database





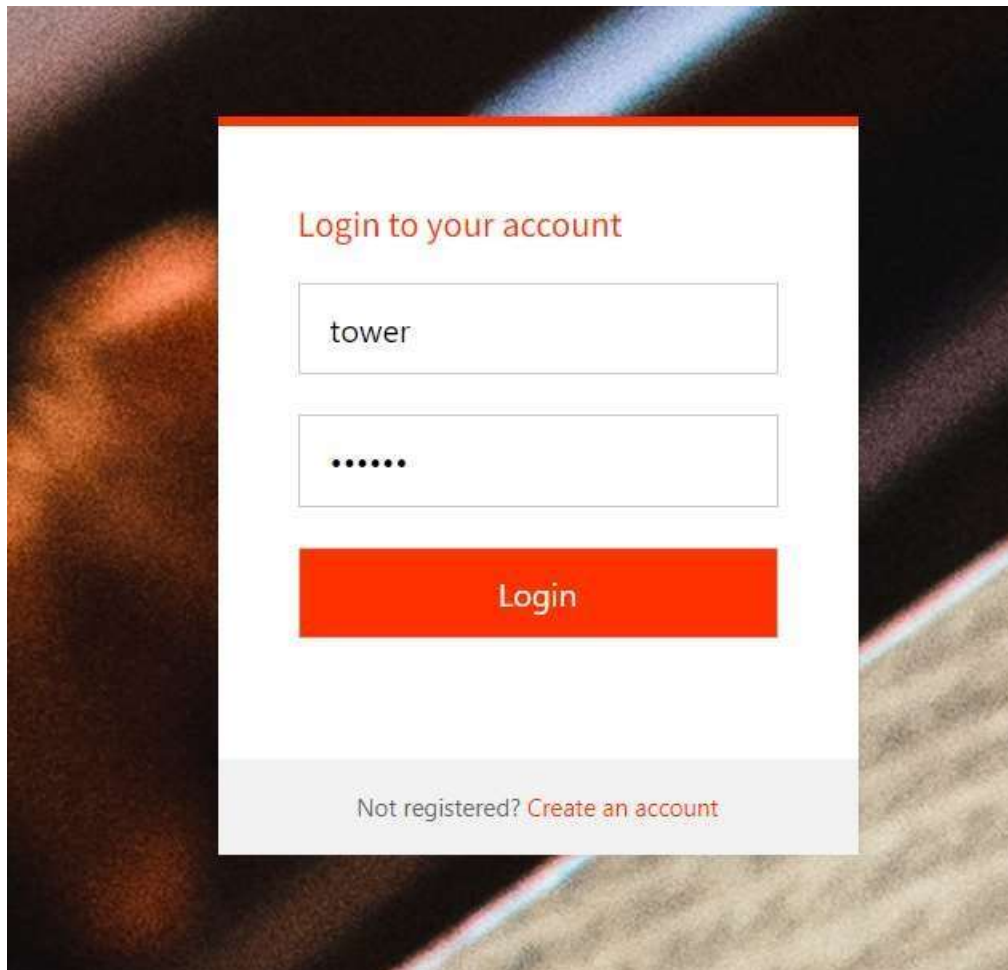
**Figure-4:** Home page



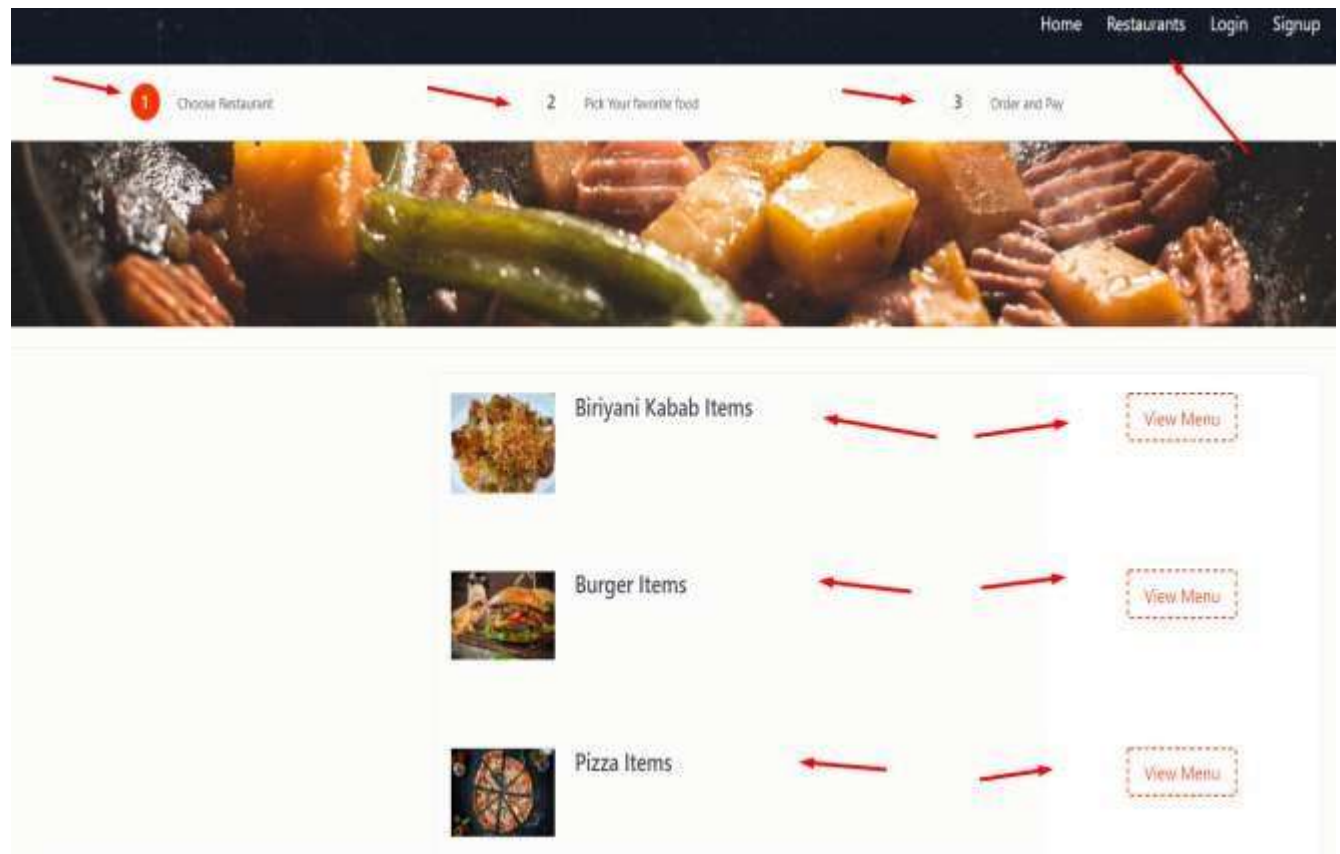
A screenshot of a web registration form titled "Sign Up page". The form is set against a background image of a person's face. It contains several input fields for user information, arranged in a structured layout. The fields are labeled: "User-Name", "First Name", "Last Name", "Email Address", "Phone number", "Password", "Confirm password", and "Delivery Address". The "User-Name" field contains the text "tower". The "First Name" field contains "Abdul" and the "Last Name" field contains "Karim". The "Email Address" field contains "abdul@gmail.com" and the "Phone number" field contains "01734263479". Both the "Password" and "Confirm password" fields are filled with seven dots, indicating masked text. The "Delivery Address" field contains "Dhaka, Mirpur-01". At the bottom left of the form is a red button with the text "Register".

User-Name	
<input type="text" value="tower"/>	
First Name	Last Name
<input type="text" value="Abdul"/>	<input type="text" value="Karim"/>
Email Address	Phone number
<input type="text" value="abdul@gmail.com"/>	<input type="text" value="01734263479"/>
Password	Confirm password
<input type="password" value="....."/>	<input type="password" value="....."/>
Delivery Address	
<input type="text" value="Dhaka, Mirpur-01"/>	
<input type="button" value="Register"/>	

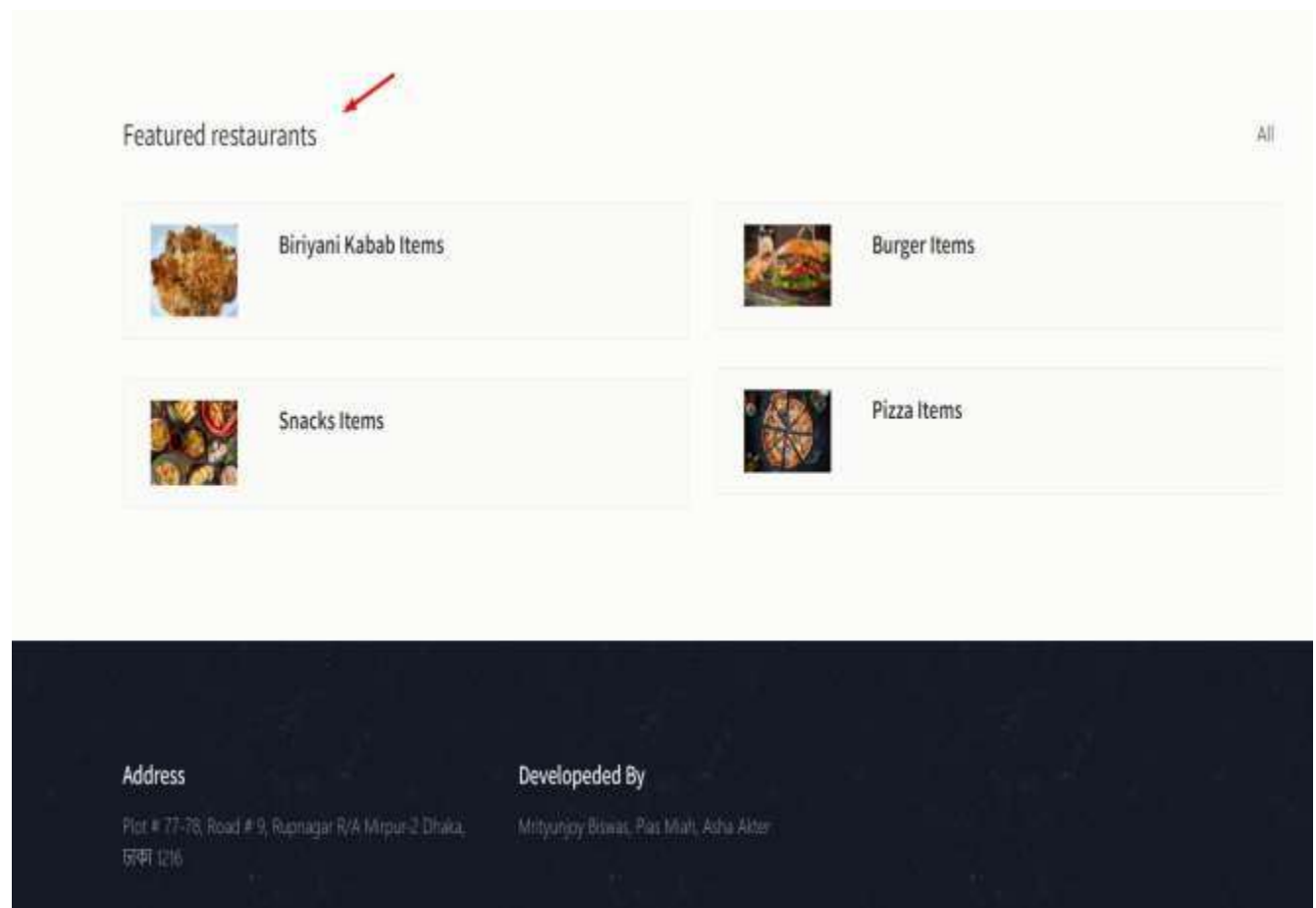
**Figure-5:** Sign Up page



**Figure-6:** Login page




**Figure-7:** Restaurants page



**Figure-8:** Restaurant Featured page

### Popular Dishes of the Month

The easiest way to your favourite food




**Chicken Roast Polao**

Roast polao prepared with authentic bangladeshi aromatic rice, sonali chicken roast, 1 pc of boiled egg.

**BDT 350.00**

[Order Now](#)




**Murgh Tikka Biryani**

Deliciously spicy, aromatic Tandoori/Tikka Biryani... one of the best biryani version.

**BDT 470.00**

[Order Now](#)



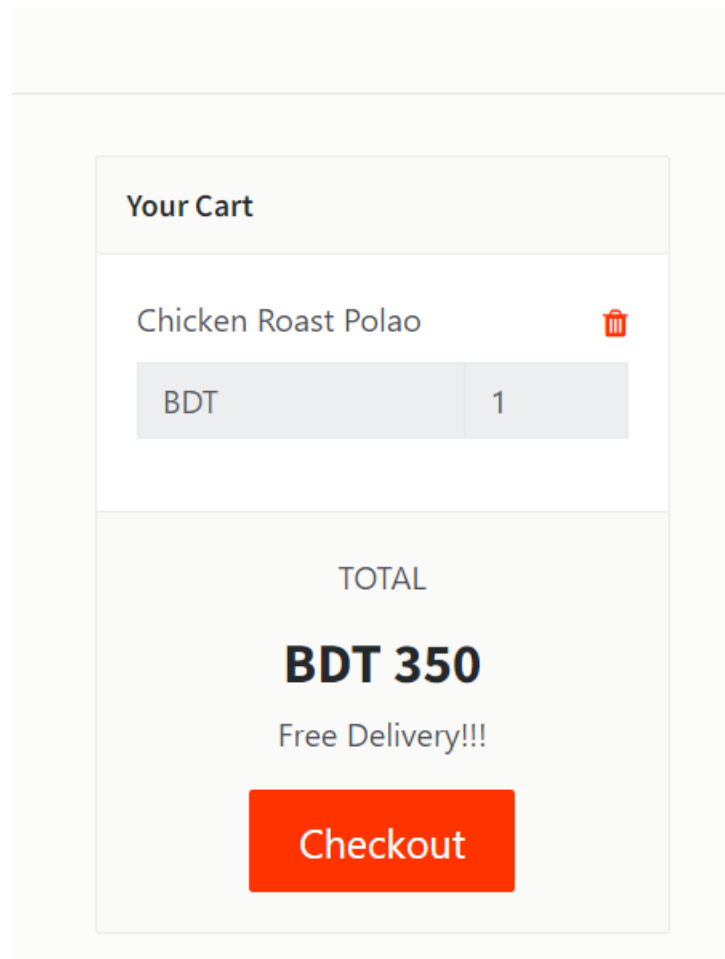
**Murgh Zafrani Kabab**

Murgh Zafrani Kabab. A plateful of succulent pieces of meat, straight out of tandoor, is tough to resist.

**BDT 380.00**

[Order Now](#)

**Figure-9.1:** Order page



**Figure-9.2:** Add to cart order page

1 Choose Restaurant


2 Pick Your Favorite food

3 Order and Pay

### Cart Summary

Cart Subtotal	BDT 350
Delivery Charges	Free
<b>Total</b>	<b>BDT 350</b>

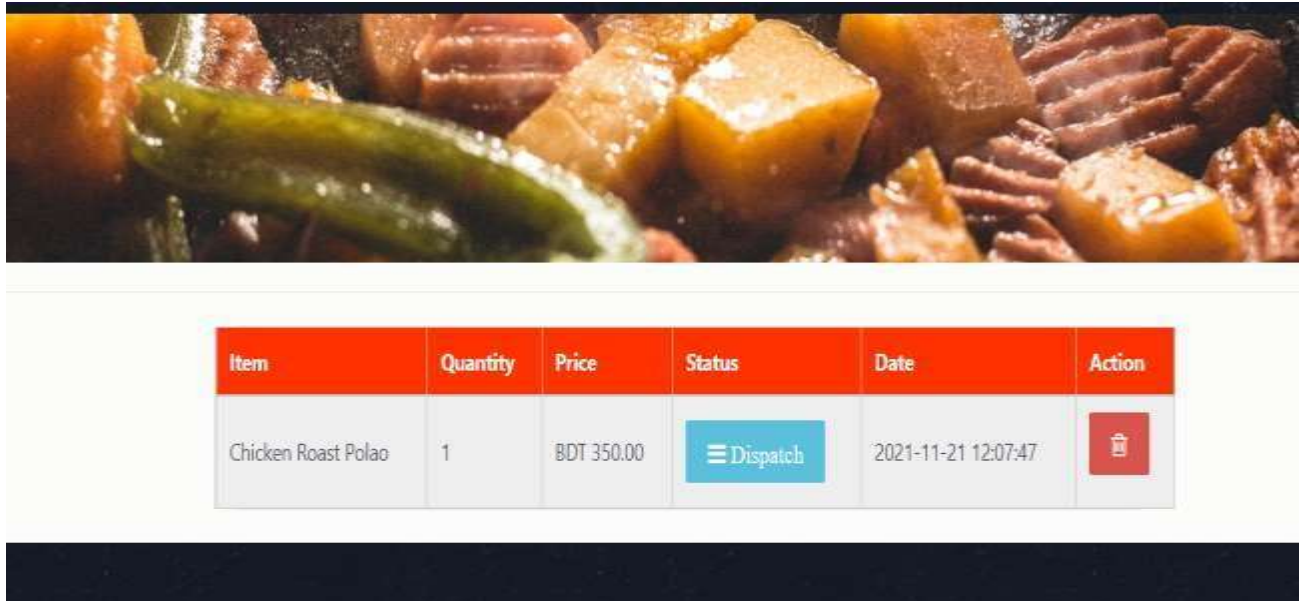
☒ Cash on Delivery

☐ Paypal 

Order now

**Figure-9.3:** Confirm order page





**Figure-9.4:** Order confirmed page

Server: 127.0.0.1 » Database: res\_final\_db » Table: users\_orders

Browse Structure SQL Search Insert Export Import Privileges Operations

Showing rows 0 - 2 (3 total, Query took 0.0040 seconds)

SELECT \* FROM `users\_orders`

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


<input type="checkbox"/>	Edit	Copy	Delete	4	4	Signature Potato Twisters	1	320.00	NULL	2021-11-18 19:25:58		
<input type="checkbox"/>	Edit	Copy	Delete	6	6	Chicken Roast Polao	1	350.00	NULL	2021-11-21 12:07:47		

Check all With selected: Edit Copy Delete Export

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

**Figure-9.5:** Order added to database

# Admin Panel

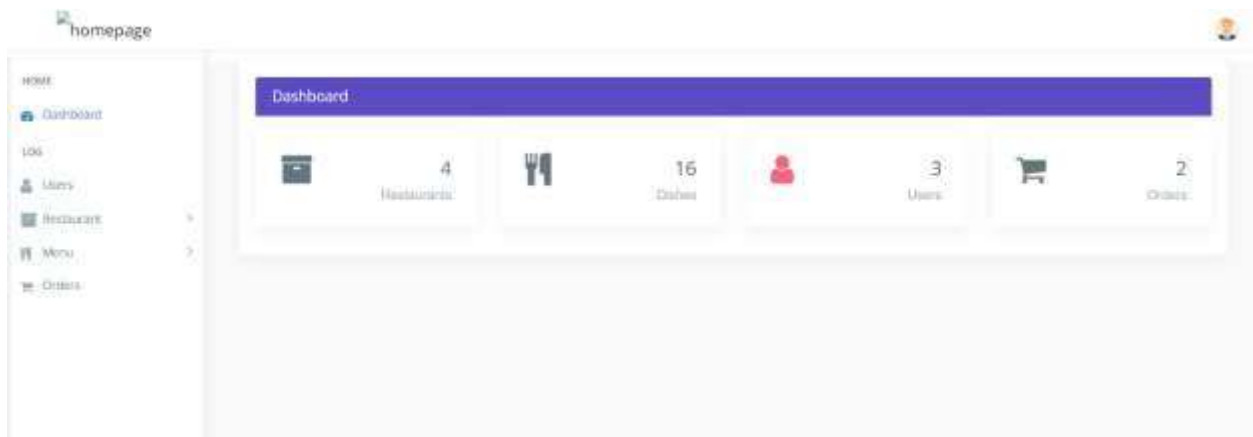


Username

Password

Login

**Figure-10:** Admin Login panel



**Figure-11:** Admin home page

homepage

Home

Dashboard

LOG







Users

Restaurant

Menu

Orders

All Users

Username	First-Name	Last-Name	Email	Phone	Address	Reg-Date	Action
pias	pias	ahmed	pias@gmail.com	0173425367	Newabgonj	2021-11-21 11:49:49	 
hasan	hasan	miah	hasan@yahoo.com	0195364735	Dhaka, Mirpur-1	2021-11-19 21:00:20	 
mityunjoy	mityunjoy	biswas	mityunjoy@test.com	1234567890	test	2021-11-18 17:08:00	 

**Figure-12: User section**

homepage

Home

Dashboard

LOG

Users

Restaurants

All Restaurant










Add Category

Add Restaurant

Menu

Orders

All Restaurant

Category	Restaurant-Name	Email	Phone	Url	Open Hrs	Close Hrs	Open Days	Address	Restaurant-Image	Date	Action
	Burrito Item				8am	8pm	Mon-Sat			2021-11-18 19:23:48	 
	Pizza Item				8am	8pm	Mon-Fri			2021-11-18 18:12:27	 
	Burger Item				11am	8pm	Mon-Sat			2021-11-18 18:12:29	 

**Figure-13: All Restaurant section**

homepage

HOME

Dashboard

LOG

Users

Restaurant

All Restaurants

Add Category

Add Restaurant

Menu

Orders

Add Restaurant Category

Category

Save Cancel

Listed Categories

ID	Category Name	Date	Action
No Categories Found			

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**Figure-14:** Restaurant add category section

homepage

HOME

Dashboard

LOG

Users

Restaurant

All Restaurants

Add Category

Add Restaurant

Menu

Orders

Add Restaurant

Restaurant Name

Business E-mail

Phone

Website URL

Open Hours

Close Hours

Open Days

image

Select Category

Choose file No file chosen

**Figure-15:** Restaurant add section

homepage

HOME

Dashboard

LOG

Users

Restaurant

Menu

All Menus

Add Menu

Orders

All Menu

Restaurant	Dish-Name	Description	Price	Image	Action
Biryani Kabab Items	Basmati Kacchi	A delightful preparation of slow-cooked aromatic basmati rice layered with potatoes, marinated mutton pieces, in a delicate blend of white spices.	BDT 400.00		
Snacks Items	Meatballs Parme Pasta	Garlic-Parmesan beef meatballs tossed in our house-made marinara sauce and penne pasta topped with fresh parsley.	BDT 470.00		
Snacks Items	Signature Potato Twisters	Spiral sliced potatoes, topped with our traditional spicy queso, Monterey Jack cheese, pico de gallo, sour cream and fresh cilantro.	BDT 320.00		
Snacks Items	Mex N Cheese Bites	Served with our traditional spicy queso and marinating sauce.	BDT 380.00		
Snacks Items	Buffalo Wings	Fried chicken wings tossed in spicy Buffalo sauce served with crisp celery sticks and Blue cheese dip.	BDT 450.00		

**Figure-16:** All Menu section

homepage

HOME

Dashboard

LOG

Users

Restaurant

Menu

All Menus

Add Menu

Orders

Add Menu

Dish Name

Description

Price

BDT

Image

Choose file No file chosen





Select Restaurant

--Select Restaurant--

Save Cancel

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**Figure-17:** Add menu section

User	Title	Quantity	Price	Address	Status	Reg-Date	Action
mrfjenny	Signature Potato Twisters	1	₹217.320.00	test	Dispatch	2021-11-18 19:25:58	 
jane	Chicken Round Potatoes	1	₹217.300.00	Newshpam	Dispatch	2021-11-21 12:07:47	 

**Figure-18:** All Order section

## Conclusion

The “Restaurant Management System” process made computerized to reduce human errors & to increase the efficiency. The main focus of this project is to less the human efforts. The maintenance of the records is made efficient, as all the records are stored in the Access Database, through which data can be retrieved easily. The editing is also made simples. The user has to just type in the required field & process the update button to update the desired field. The items & moderators are given a particular unique id no. so that they can be access correctly & without error. The aim of this project is to reduce the error of manual functionalities.