

Restaurant & Convention Hall Booking System

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This Report Presented in Partial Fulfillment of the Requirements for the
Degree of Bachelor of Science in Computer Science and Engineering

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APPROVAL

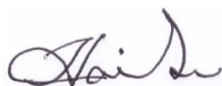
This Project titled “**Restaurant & Convention Hall Booking System**”, submitted by **Md. Sakib Kamal** and **Md. Morsalin Ahmed Sazal** to the Department of Computer Science and Engineering, Daffodil International University, has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 09/07/2020.

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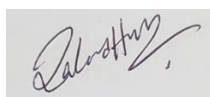
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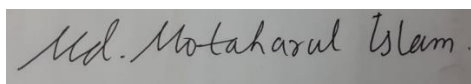
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DECLARATION

We hereby declare that, this project has been done by us under the supervision of **Md. Azizul Hakim, Lecturer, Department of CSE** Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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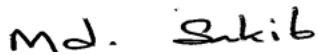
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We would like to thank our entire course mate in Daffodil International University, who took part in this discuss while completing the course work.

Finally, we must acknowledge with due respect the constant support and patients of our parents.

ABSTRACT

WEBSITE DESIGN AND DEVELOPMENT were the main objective of this project. To develop a web based application or software there are several programming languages that are in use. Some of them are only used for the frontend and backend design of the software. For example HTML3, HTML4, HTML5, CSS, Bootstrap Framework etc. There are also some other programming languages that are used to develop the dynamic functions of the software or application. For example-PHP, Java etc. Nowadays there are also some framework's that use vastly. Frameworks are basically structured programming by using Model, View, and Controller. It is also called as MVC. If we develop web based application that is very useful for us because we can access it from anywhere of the world. It is very helpful for our daily life. That is why I choose subject of my report is "WEBSITE DESIGN AND DEVELOPMENT". Working in Insight Bangladesh Foundation added huge experiences in my upcoming career. Solving real life problems was another key issue. This report takes us through all the details of WEBSITE DESIGN AND DEVELOPMENT knowledge and experience gathered during this period.

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CHAPTER 1

Introduction

1.1 Introduction

Now a days technology playing a big roll to our day to day life. Technology leads the whole world by doing fantastic job for foodies. So we have planed this type of project because of providing foodies a good services. Foodies can advance order their food from any places.

Who doesn't like to have dinner in restaurant? Less or more, in modern times everyone goes to tavern for different purposes. Corporate meeting to romantic dinner date, every ages of people approach to restaurant not only fulfill their hunger but also spend quality time with their fellows. But can people find the right places for their occasion? Do people get confused for choosing the desire one? From these issues, we come through a conception. A revolutionary website where we can find desire restaurant according to our intentions, we can find peoples opinion regards to that particular place and also place a good review to encourage the restaurant owners. The possible outcome of this website will be auspicious not only patron but also the restaurant claimant. We will also try to fabricate this website in ecommerce platform officially.

1.2 Motivation

Now a day's going to restaurant become so popular that not only for teenagers but also family get together also happen there. So that usage of restaurant increasing day by day. But we find some obstacles such as sometimes we may not find our desire restaurant. Sometimes we don't know about the quality of any new place's restaurant that's why we just waste our money and time. We don't know which restaurant is for family dinner and which one is for gossiping. Even we don't get verified review and feedback from any platform about any restaurant. Our target was to reach the customer by providing a planning a good website. Our this motivation was motivated through the whole project. By motivated by there we simply build our project. So that we can't justify, compare similarities between

the qualities of the restaurants. For a new restaurant owner it is difficult to reach them to the customer in a short period. For overcoming these obstacles, we came through an idea which will be solution of all in one platform for this.

1.3 Objective

In our website there are some sorted features but we emphasize on some selected elements such as restaurant category, restaurant type, restaurant location. But first of all there is a selection option for suitable location. Then we will find the category, types. Then you will get all the similar restaurant list of that category and price according to the rank of price, quality and environment. There is also a section for giving review and feedback. On the other hand, there is also area of restaurant's features such as menu, environment pictures and so on. For creating new owner business profile there are some options such as adding restaurant's environment pictures, menu etc. After agreeing the terms and condition they can do advertisement.

1.4 Expected Outcomes

- Food review
- Commenting system
- User message to main admin
- User Panel
- Restaurant admin panel
- Main admin Panel
- Food Reservation
- Restaurant Reservation
- Booking a convention hall
- Message to admin and restaurant
- Time saving
- Money saving
- Can find different cities
- Can find different Food type
- Importantly Three stage admin Panel

1.5 Report Layout

Chapter 1 We mentioned details about website development introduction. Objective include some facility about internship as saved the time and resources, reduced the number of workers, reduced the work load easy to search and record. Motivation to web development as inheritance , implement, object declare and so an opportunity. Goals of web development project PHP is more efficient than any other languages and choicefull and ultimate for fruitful programmer. Report layout is the main overview of full report chapter.

Chapter 2 Describe about related work , comparative studies , scope of problem , challenges.

Chapter 3 Contain business process modeling , requirement collection & analysis , use case modeling and description , logical data model , design requirements.

Chapter 4 Describe about front-end design , back-end design , interaction design & UX , implementation Requirement.

Chapter 5 Simply we mention about implementation of database , implementation of front-end design , implementation of interaction , testing implementation , test results & reports.

Chapter 6 About discussion & conclusion, scope for further developments.

CHAPTER 2

Background

2.1 Introduction

To proceed the actual project, we have to research and investigate about the already exist project to further approach. This is known as background study. In background study it helps us to recognize about the limitations of the existing project and also encourage us to implement those limitations in our project. Also it gives the idea of not to break down the copyright issues in future. For this reasons background study is the must to implement any development project. In doing background study we also compare, criticize with other related work in this field and went to the depth of the project. We divide the part in some segments such as related works, comparison works, scope of the problem and challenges.

2.2 Related Works

Before doing this project we have found two related project in google. One is “the fork” & another one is “foodiez” Both are Reservation system. Some features are same as like as both of the projects. Some extra features like our project is multi-vendor. Otherwise we are inspired by both of the project.

“foodiez” is a restaurant website in Dhaka city. Restaurants are categorized according to different types of varieties. Also there the restaurants have the details of the menu and places. Different types of deals and offers are featured in the website. Also news of restaurants is available in the website. Anyone can book or reserve the restaurant from this website. Blogger can review or write content about restaurant and experiences from this website. For this someone has to resister first and thoroughly.

2.3 Comparative Studies

After research we found that every project has its own specialty. We found that the key features of that particular restaurant. They are:

Description about foodiez:

“Foodiez” is a restaurant website in Dhaka city. From this what we get is given below:

1. Restaurants are categorized according to different types of varieties. Also there the restaurants have the details of the menu and places.
2. Different types of deals and offers are featured in the website. Also news of restaurants is available in the website.
3. Anyone can book or reserve the restaurant from this website.
4. Blogger can review or write content about restaurant and experiences from this website. For this someone has to register first and then can blog thoroughly.

This the comparative studies of the existing websites. Now let's discuss about the project which created by us. The features and function are given below. It's categorized in two parts which is similarity and non-similarity.

Similarity:

1. Customers can find their desire restaurants by their own location. Nearest restaurants are showing before than other restaurants.
2. All the restaurants are updated with menu, environment, quality etc.
3. Customers can give feedback and comments in a particular section. Also can rank the quality of the restaurants. Giving suggestion to improve also included here.
4. Restaurants are not scattered here. They are categorized in a well manner so it is easy to find a particular cuisine food in different restaurants.

5. Latest deals and offers are visible to customers in an attractive manner. Also new town offers are visible.

Dissimilarity:

1. Restaurant owners can open free account to prompt their restaurant. It's very helpful to new restaurant owners to reach the customers fast.
2. The rating and ranking system is updated with artificial intelligence. So that the highest rating of the restaurant comes forward automatically. It's convenient for someone to distinguish which restaurant is popular in this comparative field.
3. The design of the website is completely different from the other existing website. It's more attractive to the customers, user friendly, easy to understand and more polished.

2.4 Scope of problem

After discussing the features and comparison studies we understand that some features are similar and some are not. The problems we found which is not to similar to other restaurant website and can't find in these. They are:

Restaurant owner can open free account to prompt their restaurant. It is very helpful to new restaurant owners to reach the customers fast.

2.5 Challenges

There are different types of challenges have to be faces during the software develop. Most commonly:

- Creating restaurant owners account sections.
- Implementing artificial intelligence to rank the restaurant automatically based on customer uses.
- Implementation of different design and attractive design is also a major challenge.

CHAPTER 3

Requirement Specification

3.1 Business process modeling

The term modeling is a form of simulation where a series of related steps form a process, and these processes are then analyzed, studied, and repeatedly performed with a goal of improving business process performance. Simply stated, the more efficient a process becomes, the less it will cost to complete and will, therefore, lower business costs. The intent of business process modeling then, is to optimize efficiency when performing business processes and activities associated with producing products and services.

BPM helps businesses to manage complex systems and processes. It helps them view their systems from multiple angles and helps them discover causes and effects of using model traceability. BPM also helps to increase business understanding through visual analysis.

We implement two types of business process modeling here. From first model we visualize the basic model of the whole system. We can see the user as customer and system as admin. From this we get the basic idea of this whole business process in a simple manner. Also there is workflow and connections from which part is doing their significant works. If we see the model user as customer interacts with the system they don't need to open account. Restaurant owner opens account, register themselves, post or delete any updates etc. From this overview we can summarize the whole process in a nutshell. Business Process model contains seven things. They are: (1) Sequence flow (2) Message flow (3) Association (4) Data Association (5) Loop Marker (6) Parallel multiply instance maker (7) Sequence multiply instance maker (8) Start Activity (9)End Activity (10) Messages . After combining all of these things You can be make a proper Business Process model.

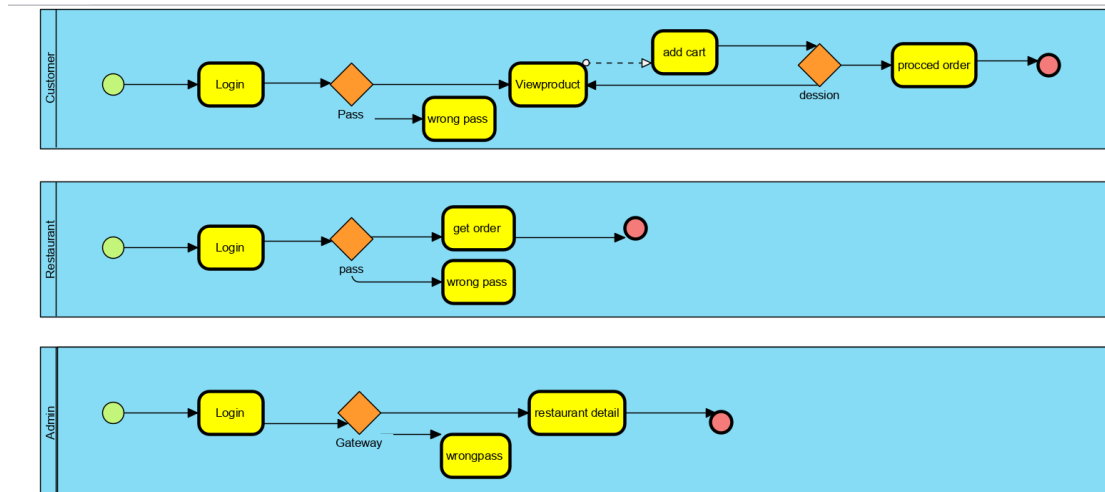


Figure 3.1.1: Business process model.

3.2 Requirement Collection and Analysis

How to collect Requirement of a project? In the diagram given below you can find how requirement collects.

Requirement quality	Example of bad requirement	Example of good requirement
Atomic	There is no customers login and signup system.	Customers login and signup system.
Uniquely identified	There is no different customers login and signup system.	Different customers login and signup system.
Complete	Main admin or Restaurant admin login with his name , email, password, order relevant information.	Main admin or Restaurant admin login with his email, password.
Consistent & Unambiguous	Shop page don't provide all information that customer need.	Shop page don't provide all information that customer need.
Traceable	Restaurant admin Can't find customers detail.	Restaurant admin Can find customers detail.

Prioritized	Customer booking restaurant or convention hall that don't stored into data base and data base provide it to restaurant admin.	Customer booking restaurant or convention hall that stored into data base and data base provide it to restaurant admin.
Testable	Each page of the system will load in an acceptable time-frame.	Each page of the system will load in an 2 second time durement.

3.3 Use Case Modeling and Description

Use case model description is given below:

A use case is a tactic used in system analysis to identify, clarify, and categorize system requirements. The use case is made up of a set of possible sequences of interactions between systems and users within an environment and related to a particular goal. The use case should contain all system activities that have significance to the users with in a given system.

Use cases are used during the analysis phase of a project to identify system functionality. They separate the system into actors and use cases. Actors represent roles that are played by users of the system. Users may be humans, other computers, or even other software systems. In this article, I will examine the importance of Use cases with a help of a simple case study.

Mainly use case modeling has four entities. This entities are given below:

- Systems
- Actors
- Use-cases
- Relationship

After combining all of these entity you can be made a proper Use case model. Our project Use case model given bellow.

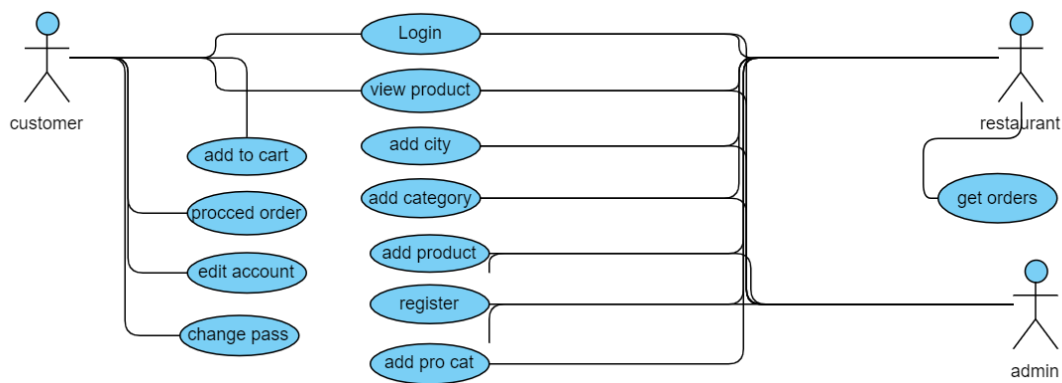


Figure 3.3.1: use case modeling.

3.4 Logical Data Model

Some of information presented related logical data model:

- Entities
- Attributes of entities
- Key groups
- Relationships
- Normalization

In our Project we implement logical data model. By implementing this we can find our Five logical table. Each tables Contains Table Name , Functions, Data name. By doing this we can easily make a data set for our project. For implementing this logical data table we can make a database take easily. Some time it could be easily for passing SQL through the database.

From The website we can see that there are roughly six entities. They are : customers, city_categories, products, categories, messages, product_categories.

Every different entity has its own characteristics. This is known as attributes. Let's consider about the customers entity. It has unique customer_id, customer_email,

customer_pass. Also have customer_name, customer_address, customer_image. It can add, update and delete in the system. The rest are work as a same.

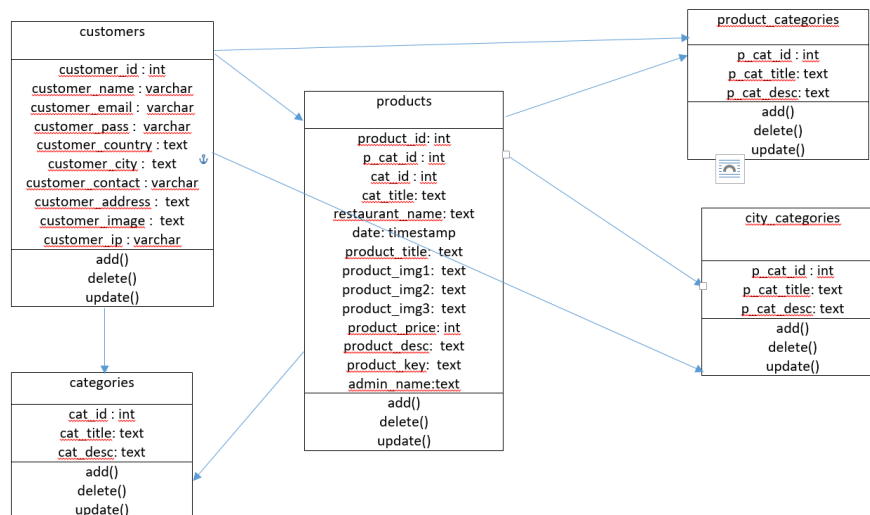


Figure 3.4.1: logical data model.

3.5 Design Requirements

To implement design, there are two parts are discussed.

Front end design specification is given bellows -

While web design is the way a website looks, front end development is how that design actually gets implemented on the web. The visible part to the customer or user is known as front design. The more attractive front design is more acceptable to the users and others. To design the front end there is some specific language and frame is used. We used HTML, CSS, and JavaScript to design our website. [1]

HTML (Hyper Text Markup Language) and CSS (Cascading Style Sheets) are the common building block of any website. It's also work as skeleton of website. Without this the website becomes unformatted and a plain texts.

JavaScript allows us to do interactive elements. It also helps to navigate the website and do real time action with matter of time, makes the interface easy to reload, and add versatile functionality to the website.

We also use design framework known as Bootstrap. Bootstrap is a free and open-source front-end framework for designing websites and web applications. It contains HTML- and CSS-based design templates for typography, forms, buttons, navigation and other interface components, as well as optional JavaScript extensions. Unlike many earlier web frameworks, it concerns itself with front-end development only.

Back End Design specification is given bellows -

The backend usually consists of three parts: a server, an application, and a database. We get the information and data from front end and implement it through application or software. After getting the data we store that in database and run by server. The whole coding for this implementation, run and store is known as back end design. For coding we use HTML, CSS, JavaScript and php. [1]

Software:

Brackets, notepad++: provides support for several languages (PHP, JavaFX, C/C++, JavaScript, etc.) and frameworks.

Server:

Apache, XAMPP: an application which allows you to setup a web server and database server instantly without any additional configuration. [3] [4]

Database:

MySQL: phpmyadmin open source relational database management system based on Structured Query Language (SQL). [2]

HTML & CSS:

HTML (Hyper Text Markup Language) and CSS (Cascading Style Sheets) are the common building block of any website. It's also work as skeleton of website.

Without this the website becomes unformatted and a plain text. Also without this images cannot add to the website.

JavaScript:

JavaScript allows us to do interactive elements. It also helps to navigate the website and do real time action with matter of time, makes the interface easy to reload, and add versatile functionality to the website.

PHP:

A server side scripting language is used to develop Static websites or Dynamic websites or Web applications. It is extremely simple for a newcomer, but offers many advanced features for a professional programmer.

The demo of the back-end design assigned below. We can see the how database connection implemented by php and run to the server.

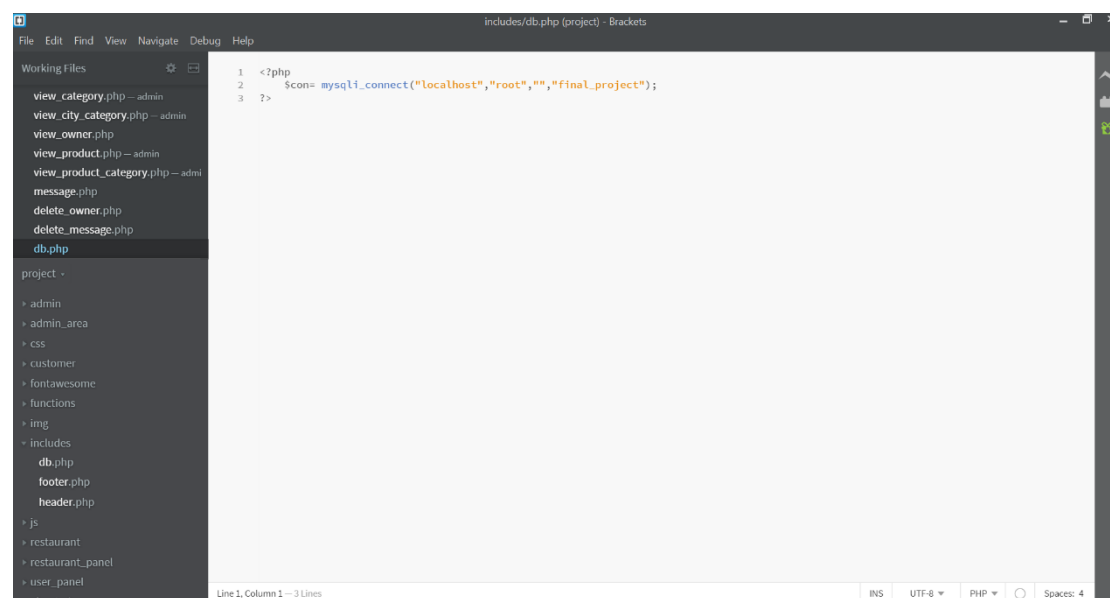


Figure 3.5.1: database connection.

Chapter 4:

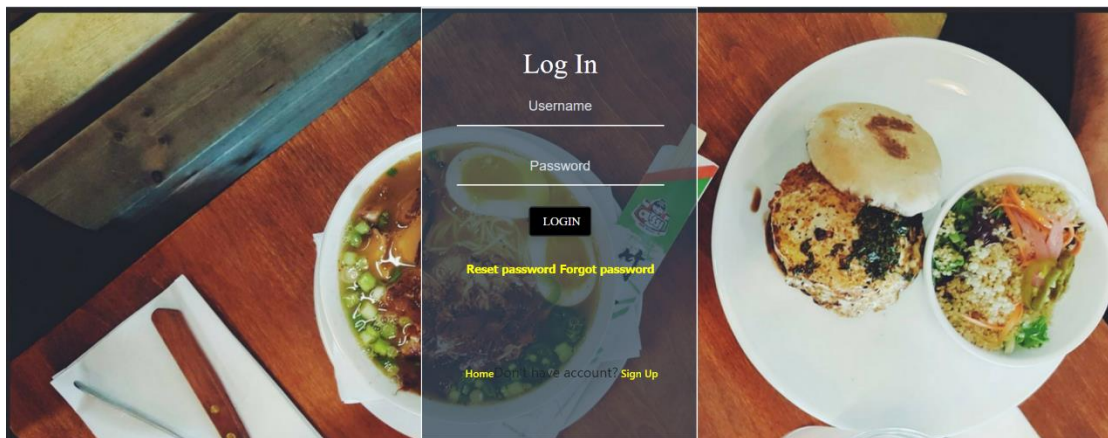
Design Specification

We accomplish the front end design and back end design to our project in various ways. In this section we demonstrate each and every part of the design and codes are discussed fully. At the end of the discussion we implement the database table.

4.1 Front-end Design

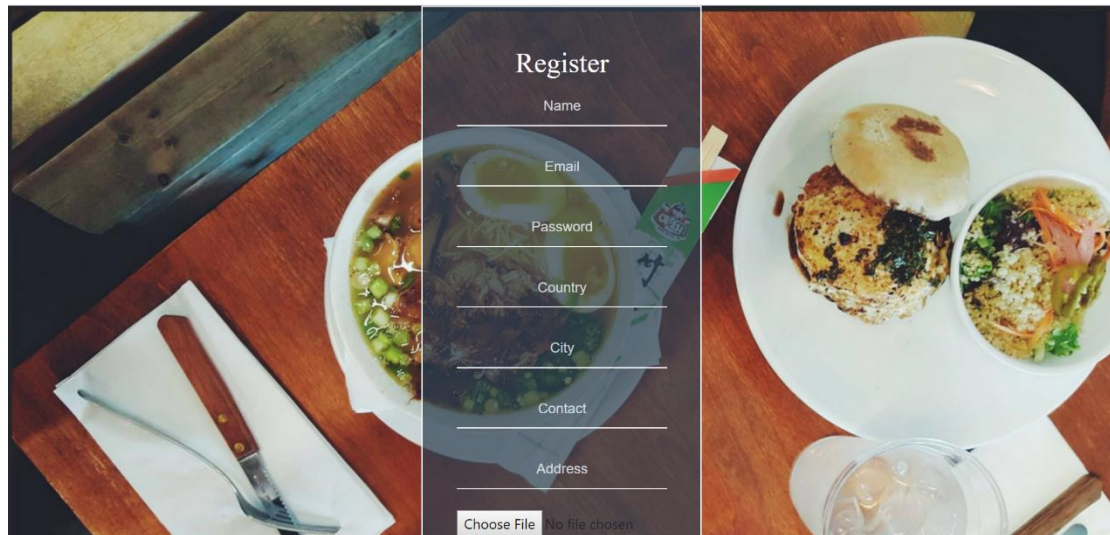
While web design is the way a website looks, front end development is how that design actually gets implemented on the web. The visible part to the customer is known as front design. The more attractive front design is more acceptable to the users and others. To design the front end there is some specific language and frame is used. We used HTML, CSS, and Java-script to design our website.

4.1.1 Login page: By using editor bracket we have designed the front-end of login page. The figure of login page given below:



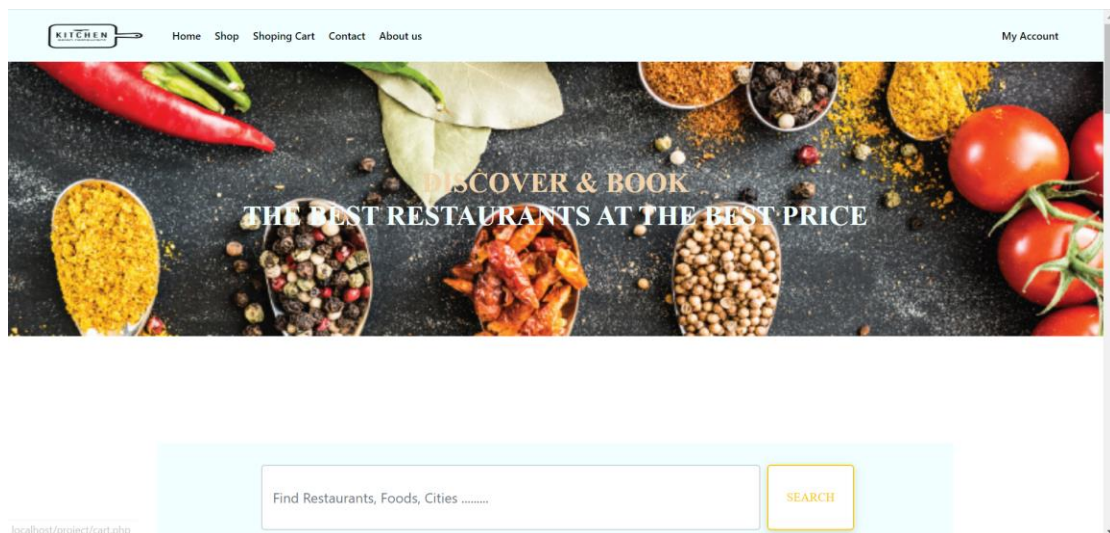
4.1.1 Login page

4.1.2 Signup page: By using editor bracket we have designed the front-end of signup page. The figure of signup page given below:



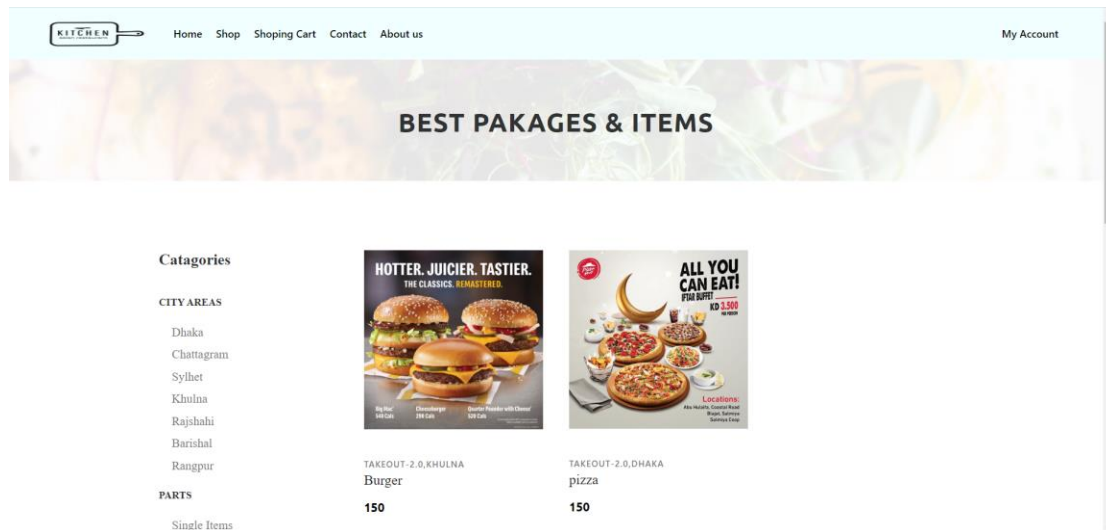
4.1.2 Signup page

4.1.3 Home page: By using editor bracket we have designed the front-end of home page. The figure of home page given below:



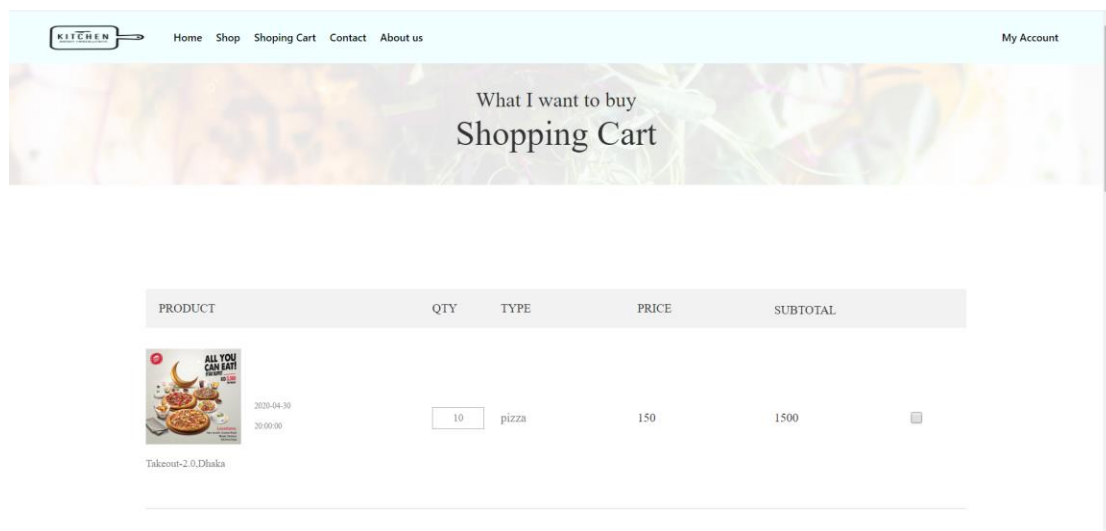
4.1.3 Home page

4.1.4 Shop page: By using editor bracket we have designed the front-end of shop page. The figure of shop page given below:



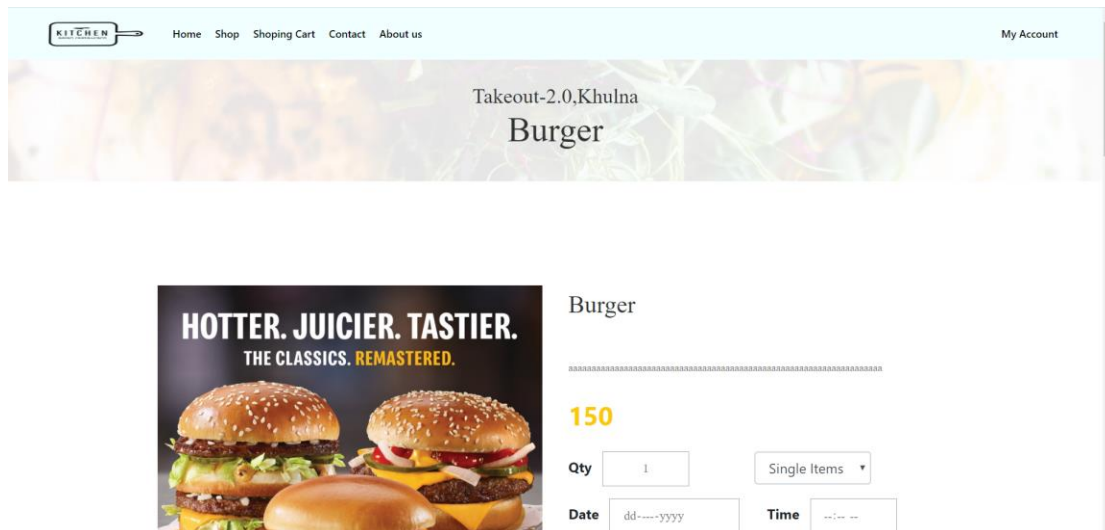
4.1.4 Shop page

4.1.5 Shopping cart page: By using editor bracket we have designed the front-end of shopping cart page. The figure of shopping cart page given below:



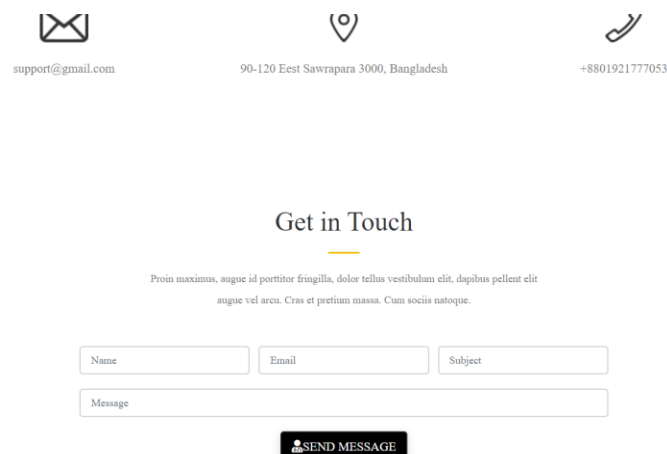
4.1.5 Shopping cart page

4.1.6 Viewproduct page: By using editor bracket we have designed the front-end of viewproduct page. The figure of viewproduct page given below:



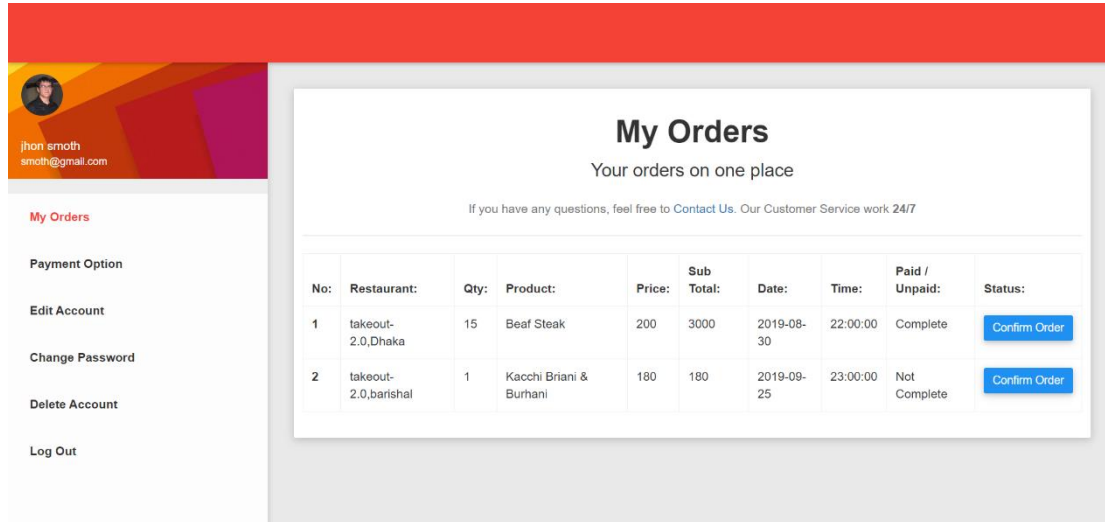
4.1.6 Viewproduct page

4.1.7 Contact page: By using editor bracket we have designed the front-end of contact page. The figure of contact page given below:



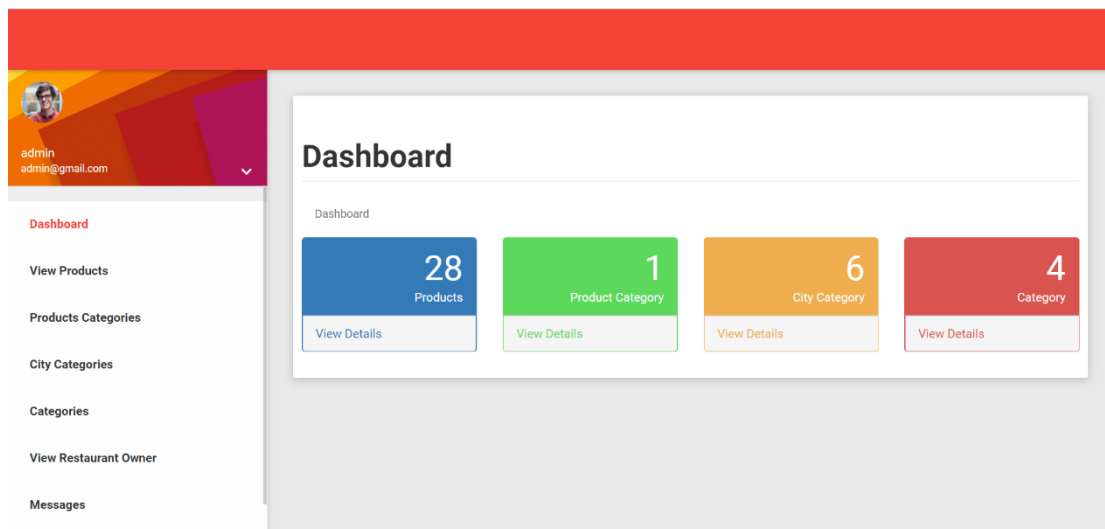
4.1.7 Contact page

4.1.8 User panel page: By using editor bracket we have designed the front-end of user panel page. The figure of user panel page given below:



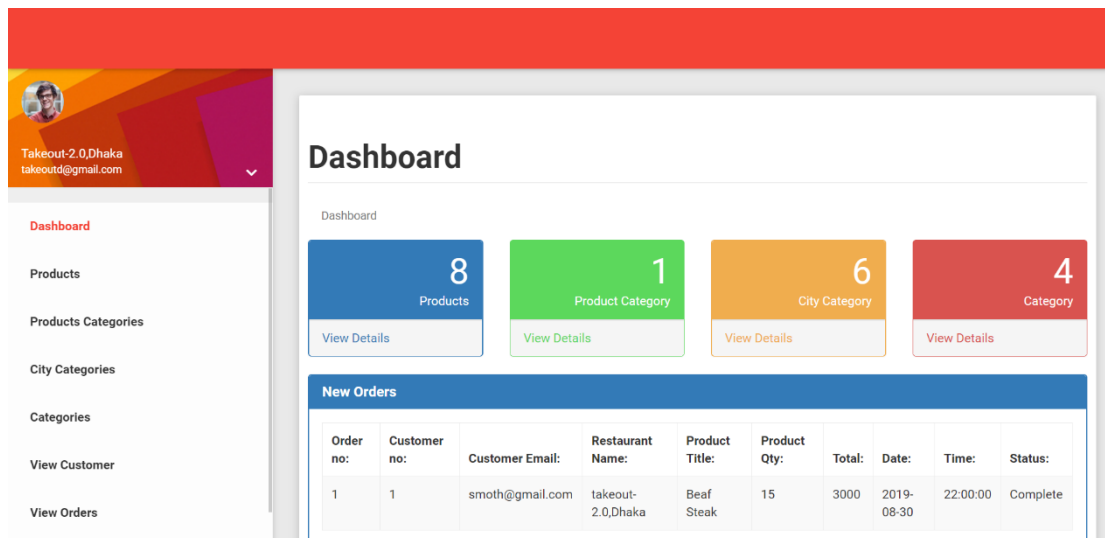
4.1.8 User panel page

4.1.9 Admin panel page: By using editor bracket we have designed the front-end of admin panel page. The figure of admin panel page given below:



4.1.9 Admin panel page

4.1.10 Restaurant Panel page: By using editor bracket we have designed the front-end of restaurant panel page. The figure of restaurant panel page given below:



4.1.10 Restaurant Panel page

4.2 Back-end Design

The backend usually consists of three parts: a server, an application, and a database. We get the information and data from front end and implement it through application or software. After getting the data we store that in database and run by server. The whole coding for this implementation, run and store is known as back end design. For coding we use HTML, CSS, JavaScript and php.

Software:

Brackets, notepad++: provides support for several languages(PHP, Javascript, etc.) and frameworks.

Server:

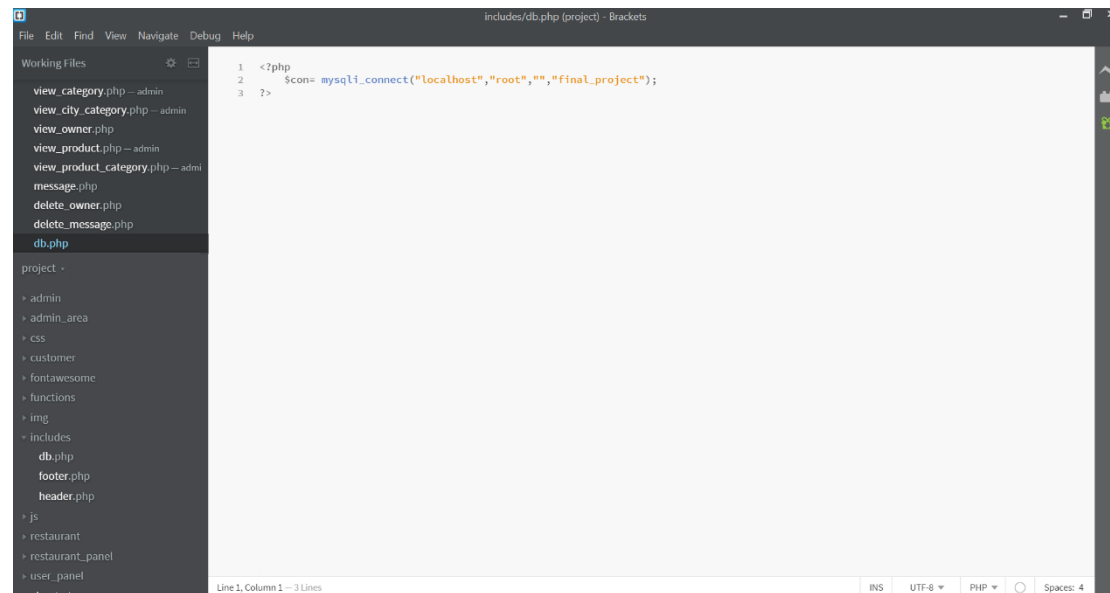
Apache, XAMPP: an application which allows you to setup a web server and database server instantly without any additional configuration.

Database:

Mysql: phpmyadmin open source relational database management system based on structured query language(SQL).

Language:

A server side scripting language that is used to develop static or dynamic websites or web applications. It is extremely simple for newcomer, but offers many advanced features for a professional programmer.



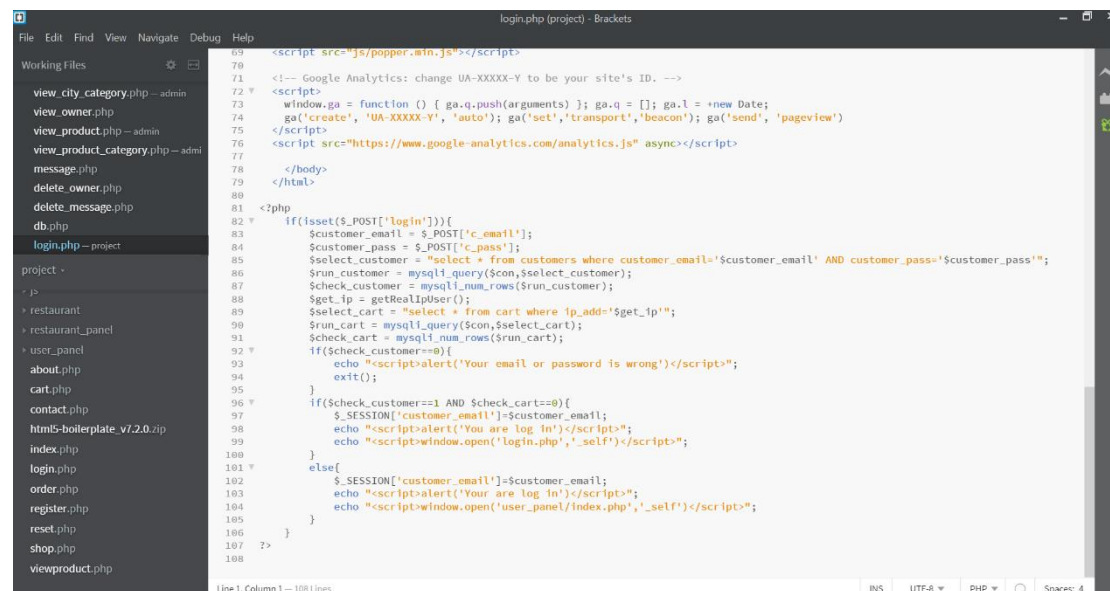
The screenshot shows the Brackets editor interface with the file 'db.php' open. The left sidebar displays a project tree with folders like 'admin', 'css', 'includes', and 'js'. The main editor area shows the following PHP code:

```
1 <?php
2 $con= mysqli_connect("localhost","root","","final_project");
3 ?>
```

The status bar at the bottom indicates 'Line 1, Column 1 — 3 Lines', 'INS', 'UTF-8', 'PHP', and 'Spaces: 4'.

4.2.1 database connection

The login code of this project given below:



The screenshot shows the Brackets editor interface with the file 'login.php' open. The left sidebar displays a project tree with various files. The main editor area shows the following PHP code:

```
60 <script src="js/popper.min.js"></script>
61
62 <!-- Google Analytics: change UA-XXXXX-Y to be your site's ID. -->
63 <script>
64 window.ga = function () { ga.q.push(arguments) }; ga.q = []; ga.l = +new Date;
65 ga('create', 'UA-XXXXX-Y', 'auto'); ga('set','transport','beacon'); ga('send', 'pageview');
66 </script>
67 <script src="https://www.google-analytics.com/analytics.js" async></script>
68
69 </body>
70 </html>
71
72 <?php
73 if(isset($_POST['login'])){
74     $customer_email = $_POST['c_email'];
75     $customer_pass = $_POST['c_pass'];
76     $select_customer = "select * from customers where customer_email='$customer_email' AND customer_pass='$customer_pass'";
77     $run_customer = mysqli_query($con,$select_customer);
78     $check_customer = mysqli_num_rows($run_customer);
79     $get_ip = getRealIpUser();
80     $select_cart = "select * from cart where ip_add='$get_ip'";
81     $run_cart = mysqli_query($con,$select_cart);
82     $check_cart = mysqli_num_rows($run_cart);
83     if($check_customer==0){
84         echo "<script>alert('Your email or password is wrong!')</script>";
85         exit();
86     }
87     if($check_customer==1 AND $check_cart==0){
88         $_SESSION['customer_email']=$customer_email;
89         echo "<script>alert('You are log in')</script>";
90         echo "<script>window.open('login.php','_self')</script>";
91     }
92     else{
93         $_SESSION['customer_email']=$customer_email;
94         echo "<script>alert('Your are log in')</script>";
95         echo "<script>window.open('user_panel/index.php','_self')</script>";
96     }
97 }
98 ?>
```

The status bar at the bottom indicates 'Line 1, Column 1 — 108 Lines', 'INS', 'UTF-8', 'PHP', and 'Spaces: 4'.

4.2.2 login codes

Login code is build up here. By inserting email, name service, price. This section is for customer login section.

```

86 <script src="https://www.google-analytics.com/analytics.js" async></script>
87
88 </body>
89 </html>
90
91 <?php
92 if(isset($_POST['register'])){
93     $c_name = $_POST['c_name'];
94     $c_email = $_POST['c_email'];
95     $c_pass = $_POST['c_pass'];
96     $c_country = $_POST['c_country'];
97     $c_city = $_POST['c_city'];
98     $c_contact = $_POST['c_contact'];
99     $c_address = $_POST['c_address'];
100     $c_image = $_FILES['c_image']['name'];
101     $c_image_tmp = $_FILES['c_image']['tmp_name'];
102     $c_ip = getRealIpUser();
103     move_uploaded_file($c_image_tmp, "user_panel/images/$c_image");
104     $insert_customer = "insert into customers
(customer_name,customer_email,customer_pass,customer_country,customer_city,customer_contact,customer_address,customer_image,
customer_ip) values
('$c_name','$c_email','$c_pass','$c_country','$c_city','$c_contact','$c_address','$c_image','$c_ip')";
105     $run_customer = mysqli_query($con,$insert_customer);
106     $sel_cart = "select * from cart where ip_add='$c_ip'";
107     $run_cart = mysqli_query($con,$sel_cart);
108     $check_cart = mysqli_num_rows($run_cart);
109     if($check_cart>0){
110         $_SESSION['customer_email']=$c_email;
111         echo "<script>alert('You have been registered successfully')</script>";
112         echo "<script>>window.open('register.php','_self')</script>";
113     }
114     else{
115         $_SESSION['customer_email']=$c_email;
116         echo "<script>alert('You have been registered successfully')</script>";
117         echo "<script>>window.open('register.php','_self')</script>";
118     }
119 }
120 ?>
121
122
123

```

4.2.3 Register codes

From this part if you have data that you logged in then you can register. If the data is not matched it will not allow signing up. So that, user should make sure to match the data what he has to be given.

4.3 Implementation Requirements

A database connection lets you access database data sources. With a database connection, you can read data from database tables perform SQL queries or insert records into database tables. These actions are taken by the components using a database connection. The visible part to the customer or user is known as front design. The more attractive front design is more acceptable to the users and others. To design the front end there is some specific language and frame is used.

We used HTML, CSS, and JavaScript to design our website. The backend usually consists of three parts: a server, an application, and a database.

Chapter 5:

Implementation and Testing

5.1 Implementation of Database

A database connection lets you access database data sources. With a database connection, you can read data from database tables perform SQL queries or insert records into database tables. These actions are taken by the components using a database connection.

Now by using browser(google chrome, firefox) open the phpmyadmin link(<http://localhost/phpmyadmin/>). Then create a database named **“Final_project”**.

There several steps to form a database:

- Define scope of the database project
- Organize database project
- Select database management system products
- Develop Initial Implementation plan and schedule
- Design Database
- Perform training
- Install & test database
- Develop detailed conversion plan
- Convert existing applications
- Periodically review database performance

Here after completing the database we get 10 database tables. Every database table has its own identity. Here every table has column name , its type, attributes, and default value. Tables are given below:

Table 5.1.1 : Database admin

Column	Type	Attibutes	Null	Default
admin_id	int(10)		No	auto_increment
admin_name	varchar(255)		No	
restaurant_name	Text		No	
admin_email	varchar(255)		No	
admin_pass	varchar(255)		No	
admin_image	Text		No	
admin_country	Text		No	
admin_about	Text		No	
admin_contact	varchar(255)		No	
admin_job	varchar(255)		No	

Table 5.1.2 : Database cart

Column	Type	Attibutes	Null	Default
p_id	int(10)		No	auto_increment
ip_add	varchar(255)		No	
Qty	int(10)		No	
cat_title	Text		No	
Date	Date		No	
Time	Time		No	
ip_add	varchar(255)		No	

Table 5.1.3 : Database categories

Column	Type	Attibutes	Null	Default
cat_id	int(10)		No	auto_increment
cat_title	Text		No	
cat_desc	Text		No	

Table 5.1.4 : Database city_categories

Column	Type	Attibutes	Null	Default
p_cat_id	int(10)		No	auto_increment
p_cat_title	Text		No	
p_cat_desc	Text		No	

Table 5.1.5 : Database confirmin

Column	Type	Attibutes	Null	Default
confirm_id	int(10)		No	auto_increment
restaurant_name	Text		No	
product_title	Text		No	
sub_total	int(10)		No	
Date	date		No	
Time	time		No	

Table 5.1.6 : Database customers

Column	Type	Attibutes	Null	Default
customer_id	int(10)		No	auto_increment
customer_name	varchar(255)		No	
customer_email	varchar(255)		No	
customer_pass	varchar(255)		No	
customer_country	text		No	
customer_city	text		No	
customer_contact	varchar(255)		No	
customer_address	text		No	
customer_image	text		No	
customer_ip	varchar(255)		No	

Table 5.1.7 : Database customer_orders

Column	Type	Attibutes	Null	Default
order_id	int(10)		No	auto_increment
customer_id	int(10)		No	
restaurant_name	text		No	
Qty	int(10)		No	
product_title	text		No	
product_price	int(10)		No	
sub_price	int(10)		No	
Date	date		No	
Time	time		No	
order_status	text		No	

Table 5.1.8 : Database mainadmin

Column	Type	Attibutes	Null	Default
admin_id	int(10)		No	auto_increment
admin_name	varchar(255)		No	
admin_email	varchar(255)		No	
admin_pass	varchar(255)		No	
admin_image	text		No	
Time	time		No	
admin_country	Text		No	
admin_about	Text		No	
admin_contact	varchar(255)		No	
admin_job	varchar(255)		No	

Table 5.1.9 : Database messages

Column	Type	Attributes	Null	Default
Name	Text		No	auto_increment
Email	Text		No	
Subject	Text		No	
Message	Text		No	

Table 5.1.10 : Database products

Column	Type	Attributes	Null	Default
product_id	int(10)		No	auto_increment
p_cat_id	int(10)		No	
cat_id	int(10)		No	
cat_title	varchar(255)		No	
restaurant_name	text		No	
Date	timestamp		No	
product_title	Text		No	
product_img1	Text		No	
product_img2	Text		No	
product_img3	Text		No	
product_price	int(10)		No	
product_desc	Text		No	
product_keywords	Text		No	
admin_name	Text		No	

Table 5.1.11 : Database product_categories

Column	Type	Attributes	Null	Default
p_cat_id	int(10)		No	auto_increment
p_cat_title	text		No	
p_cat_desc	text		No	

5.2 Implementation of Front-end Design

For the front-end design of the system, a final end view of the system was considered appropriate to design rather than a fully technical structure and layout. To design the front end there is some specific language and frame is used. We used HTML, CSS, and Javascript to design our website.

HTML(Hyper Text Markup Language) and CSS(Cascading Style Sheets) are the common building block of any website. It's also work as skeleton of website. Without this the website becomes unformatted and a plain texts. Also without this images can't add to the website.

Javascript allows us to do interactive elements. It also helps to navigate the website and do real time action with matter of time, makes the interface easy to reload, and add versatile functionality to the website.

We also use design framework known as Bootstrap. Bootstrap is a free and open-source front-end framework for designing websites and web applications. It contains HTML- and CSS-based design templates for typography, forms, buttons, navigation and other interface components, as well as optional JavaScript extensions. Unlike many earlier web frameworks, it concerns itself with front-end development only.

5.3 Implementation of Interactions

We use Bracket IDE for editing the code. For interactions we use php and java-script languages. Interactions codes images given below:

```

1 <?php
2     include("includes/header.php");
3 ?>
4
5 <section class="bannersection">
6     <div class="container">
7         <div class="banner">
8             <h6>Discover & Book</h6>
9             <h6>the best restaurants at the best price</h6>
10        </div>
11    </div>
12 </section>
13
14 <br>
15 <br>
16
17
18
19
20
21
22 <div class="container">
23     
24 </div>
25
26
27 <div class="top_category_area section-padding-80 clearfix">
28     <div class="container">
29         <div class="row justify-content-center">
30             <!-- Single Category -->
31             <div class="col-12 col-sm-6 col-md-4">
32                 <div class="single_category_area d-flex align-items-center justify-content-center bg-img" style="background-
33                     image: url(img/home.jpg);">
34                     <div class="category-content">
35                         <a href="shop.php?pcat=1">DHAKA</a>
36                     </div>
37                 </div>
38             <!-- Single Category -->
39             <div class="col-12 col-sm-6 col-md-4">

```

5.3 Implementation of Interactions

5.4 Testing Implementation

We ran initial tests on our project. The result and discussion over it is given below:

Table 5.4.1 Test case

Id	Command	Test Method	Outcome	Status
Test Case 1	Registration request	Black box	Registration complete	Pass
Test Case 2	Login	Black box	Access to the system	Pass
Test Case 3	Create post	Black box	Writing form	Pass
Test Case 4	Upload media	Black box	Browsing option	Pass
Test Case 5	Select tags	Black box	Tags selected	Pass
Test Case 6	Categorize	Black box	Categorized	Pass
Test Case 7	Save	Black box	Post created	Pass

Test Case 8	View all posts	Black box	Show post	Pass
Test Case 9	Edit posts	Black box	Save changes	Pass
Test Case 10	Delete	Black box	Post deleted	Pass
Test Case 11	Blogs	Black box	Show blogs	Pass
Test Case 12	Comment	Black box	Comment posted	Pass
Test Case 13	Send mail	Black box	Mail send	Pass
Test Case 14	Log out	Black box	Logged out	Pass

We did black box testing to our project. It was a primary approach and all the tests passed though lets have a detail look to all the tests from registration to log out.

To test registration we inputted mail address which was taken and stored in the database along with the password token, Also the password matching option with the confirm password was passed.

To test the login option we inputted the email and password which were already provided during registration. The system was able to match the email and password with database and gave access to the system.

After logged in Customer can view food items with detail and then they can add food of restaurant to cart . Then you can update cart by deleting food menu or you can back to the shop page to again view product. For confirm the booking customer need to log in the system. In customer panel customer can edit his account and can change password.

After logged in restaurant owner can view all product also can edit or delete product. Owner can finds the order from customer after accept order owner can delete order. Owner can add or edit or delete categories, city_categories , product_categories.

After logged in main admin can view all product also can delete Unauthenticated product. Main admin can finds the restaurant owner detail. Main admin can add or edit or delete categories, city_categories , product_categories. Main admin can reply customer messages.

5.5 Test Results and Reports

After all of this testing procedure this software is lightly usable. All of these Things are ready for maintenance. Main admin can get some positive reviews . Customer can find their food and preferable restaurant and convention center. Restaurant admin can maintain their business easily. Index page is working there has search bar is also working . There is also city categories clicking on it is working. Different city clicking and find different city food categories. In the shop page there has a side bar.

This sidebar contains city categories & daily parts categories. Click each event it also working. In shop page there has food menus which are from different restaurant admin also there have view product button by clicking this button then it will go view product page. In this page you can find the details of all food products. And there is a form which contain person attended , date, time etc and then there is a add to cart button. By clicking this button you can go to cart page. In the cart page you can store the product what you want to order. There is three option in cart page. They are update cart, proceed order , back to shop. By update cart button you can delete a food product what you can't prefer to order. By clicking proceed order you have login your account to confirm your order. Back to shop page is for shop again and add another product to cart. By using contact page any one like customer new restaurant admin can contact with main admin. In restaurant admin panel restaurant admin can add product update product delete product. Different admin can view his own restaurant product . In restaurant admin panel owner can add city categories update information also delete information. Owner can add categories update information delete information. Owner can add product categories update information delete information. Owner can view order which are ordered by customer. So after all testing procedure we can say this project is lightly usable.

Chapter 6

Conclusion and Future Scope

6.1 Discussion and Conclusion

“Restaurant & Convention Hall Booking System” is a website where a customer/user gets all sorts of information regarding restaurants in particularly All cities.

In our website “Ranking Scheme of Restaurant”, there are some sorted features such as restaurant category, restaurant type, and restaurant location. All the similar restaurants list of that category and price according to the rank of price, quality and environment are updated. There is also a section for giving review and feedback. Restaurant’s features such as menu, environment pictures are also added. For creating new owner business profile there are some options such as adding restaurant’s environment pictures, menu etc. After agreeing the terms and condition they can do advertisement.

The website and application runs on Open Source software, the website is written in PHP and the desktop application is written in JAVA uses MySQL as the database manager.

We have a platform where we can find similar types of restaurant according to quality best to worst in a particular area. So that it is easier for a customer to find a restaurant in a convenient place and also he can estimate the quality or remark the similarity and dissimilarity between them. A customer can get knowledge about the menu, price, amount, environment and quantity etc. before visiting a specific restaurant. Also after visiting any restaurant a customer is eligible to give his/her feedback, share experience and most important delegate rank for that restaurant. So that if a restaurant is in first position , after surveying that rank and feedback it may send that restaurant to last position. And it is also visible to the restaurant owner.

So that they will be conscious about their quality and so they have the intention to improve it more and more. A new restaurant proprietor can promote their restaurant by creating a free portfolio in our ranking scheme restaurant website. It will help them to reach to customer effortlessly and effectively.

Index page is working there has search bar is also working. There is also city categories clicking on it is working. Different city clicking and find city food categories. In the shop page there has also a side bar.

This sidebar also contains many city categories and daily parts categories. Click each event it also working. In this shop page there has food menus which are different from restaurant admin also there have view product button by clicking this button it will go view product page. By searching this page people can find the details of all food products. And here is a form which contain person attended, date, time etc and there is a add to cart button. By clicking this button people can go to cart page and choose food product what they want to order. There is three option in cart page. They can update cart, proceed order, back to shop.

Here main admin can make verification of each food product from different restaurant admin. So that there have no unauthenticated food product in our system. Main admin can find message from anyone through system. So that contact is easy to anyone. Main admin have details of all restaurant owner so that they can contact each order.

So by doing these all procedure we can see this reflection of the project. We are slightly happy with the project because our project isn't ready for market. But we will take our eye to scope of further development for introduce it in the market.

6.2 Scope for Further Developments

- We can add a drop box of all restaurant so that we can find different restaurant easily.
- If we want we can add a reservation form for develop it.
- In this project Restaurant admin can find all user of database. If we want then we can separate only own customer.
- In main admin panel main admin can reply customer messages by using panel then you have not need to use email
- We can add a search bar in main admin panel and restaurant admin panel. So that main admin and restaurant admin can find some things what they needed
- We can add email verification system. For register or login both customers and restaurant admin should need valid email.
- The shop page can be more dynamic and informative.
- If we want this site can be prepaid system. Then it could be more dynamic and efficient to all.
- There could be place account section where customers prepaid there money.
- Both the restaurant admin and main admin can stored transactions.
- Different Restaurant admin can have own customers transaction I different time.
- Old customer can get discount in offer.
- There can be package system for customer.

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