

DESIGN AND IMPLEMENTATION OF AN ONLINE RESTAURANT 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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DHAKA, BANGLADESH

DECEMBER 2019

APPROVAL

This Project/internship titled “**Design and Implementation of an Online Restaurant System**”, submitted by Md. Nahidul Islam, Sabrina Akter and Md. Anik Khan ID No: 151-15-4786, 152-15-5804 and 161-15-7557 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 06 December 2019.

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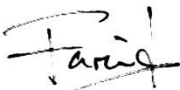
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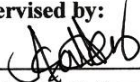
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DECLARATION

We hereby declare that, this project has been done by us under the supervision of **Mr. Abdus Sattar, Assistant Professor of CSE Department, 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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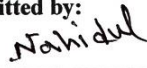
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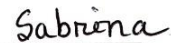


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Finally, we must acknowledge with due respect the constant support and patients of our parents.

ABSTRACT

Our project “Online Restaurant System” is a development website that will be great support for people whose are going to restaurant. Most of the people goes to many restaurants and many of them search online facility for order foods to stay at home. In most of the restaurants are not comfortable and pleasant for the customers. They will have to make long queues in most of the time before they place orders. After placed the order, the User have to wait for food to ready. In most cases Users are despondent in restaurant because they cannot get available seat properly. User can easily book table and order any food items as desire before going to the restaurants by our project. People have to complete a simple registration and login for order foods. They can get their table and foods on due time without any waiting. They can get various types of payment option to pay their bill. We hope user will be get very much advantages with our project and don’t have to waste their valuable time anymore.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

In the present circumstance many people go to many restaurant and also order foods from online. There are lots of restaurant also provide online foods to their customers. But when people goes to the restaurant, many of them have to face some problems like getting free table and waste lots of time for prepared food. By the help of our project they can find easy solution of this problem.

1.2 Motivation

Our main motivation of this project is to reduce wasting of time. Now-a-days people are getting pretty much busy in their work places for this reason they do not want to waste their times. They want to everything easily and conveniently.

1.3 Objectives

- To booking a reservation of own choice.
- To provide more reliable information about what the restaurant really does.
- To find the easy way to get food.
- To increase efficiency and improve services provided to the users through better application of technology in daily operations.
- To increase User satisfaction.

1.4 Expected Outcome

- It is a website by which is simplify and improve the efficiency of the booking and ordering process for both User and restaurant.
- Users will be able to view product menus and book a reservation and place order in online.
- User will be very much benefited for reducing time waste.
- They will not be able to make long queues for make order.
- Easily get seat and foods without waiting.

1.5 Report Layout

The Initial matter consists of the title page, approval page, abstract, acknowledgements, table contents, list of figures, list of tables and other lists.

We have organized our report as follows:

Chapter 2: In this chapter we discuss about the background studies of our project about related work, similarity other systems and challenges of our project.

Chapter 3: Here we defined the requirements, features, use case model diagram and description, flowchart, data flow diagram of the project.

Chapter 4: Discussion about the front end design and back end design of the project.

Chapter 5: Requirements for implementation, database implementation, testing implementation, test case, result and report all are discussed in this chapter.

Chapter 6: In this chapter discussion about conclusion and future development work.

CHAPTER 2

BACKGROUND

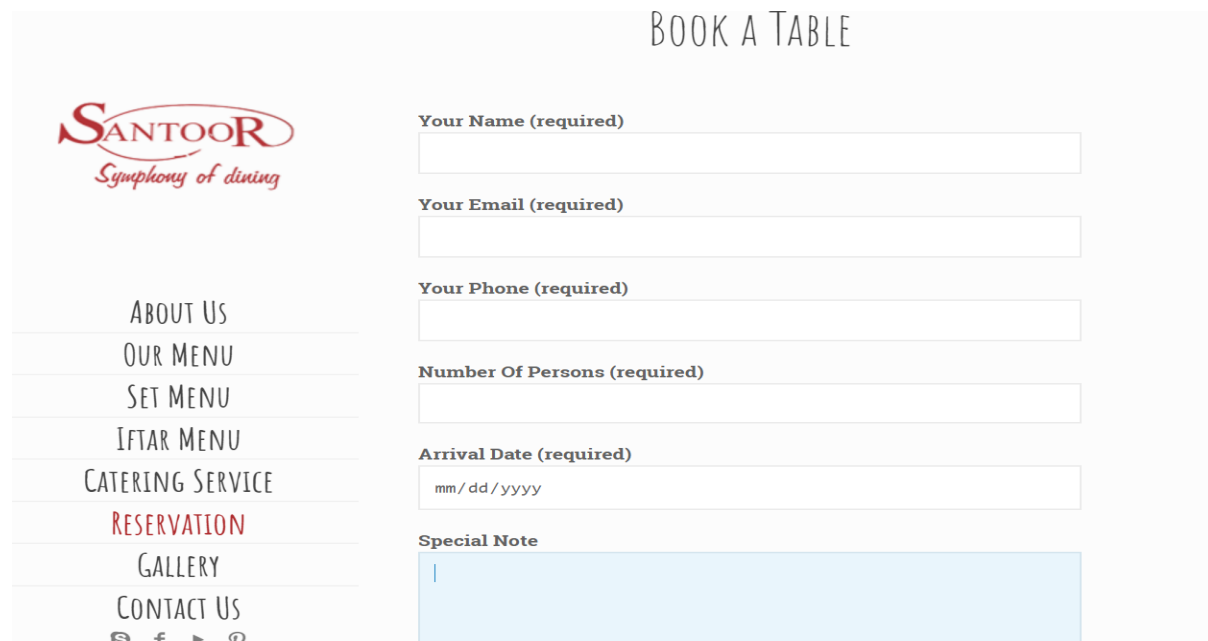
2.1 Introduction

Background studies is one of the most important thing of a project. To complete a project properly we have to know about background, related work or not related work and research article. Nowadays people are getting very much attracted to online. They also do many different types of work by online for making their daily life easier. There are many restaurants provide online services to their Users. The overall concept of our web application “Online Restaurant System” will be provided in this chapter.

2.2 Related Works

There are most of website are related to do our project but not the same at all. Here some examples are given:

SANTOOR RESTAURENT



The image shows a web page for 'SANTOOR' restaurant with the tagline 'Symphony of dining'. The page is titled 'BOOK A TABLE'. On the left is a navigation menu with links: ABOUT US, OUR MENU, SET MENU, IFTAR MENU, CATERING SERVICE, RESERVATION (highlighted in red), GALLERY, and CONTACT US. Below the menu are social media icons for Twitter, Facebook, YouTube, and Pinterest. The main reservation form on the right includes the following fields: 'Your Name (required)', 'Your Email (required)', 'Your Phone (required)', 'Number Of Persons (required)', 'Arrival Date (required)' with a placeholder 'mm/dd/yyyy', and a 'Special Note' text area.

Figure 2.2.1: Santoor Restaurant [2].

The ‘SANTOOR RESTAURANT’ has website with reservation option. They provide the opportunity of booking a table before going to the restaurant as we need. You didn’t registration for it. Just simply fill up the form and send it.

XINXIAN RESTAURANT



Figure 2.2.2: Xinjian Restaurant [3].

‘XINXIAN RESTAURANT’ website is simple but they have reservation option and other option that has a restaurant normally. For book a table just simply fill up a form.

OZZ CAFE

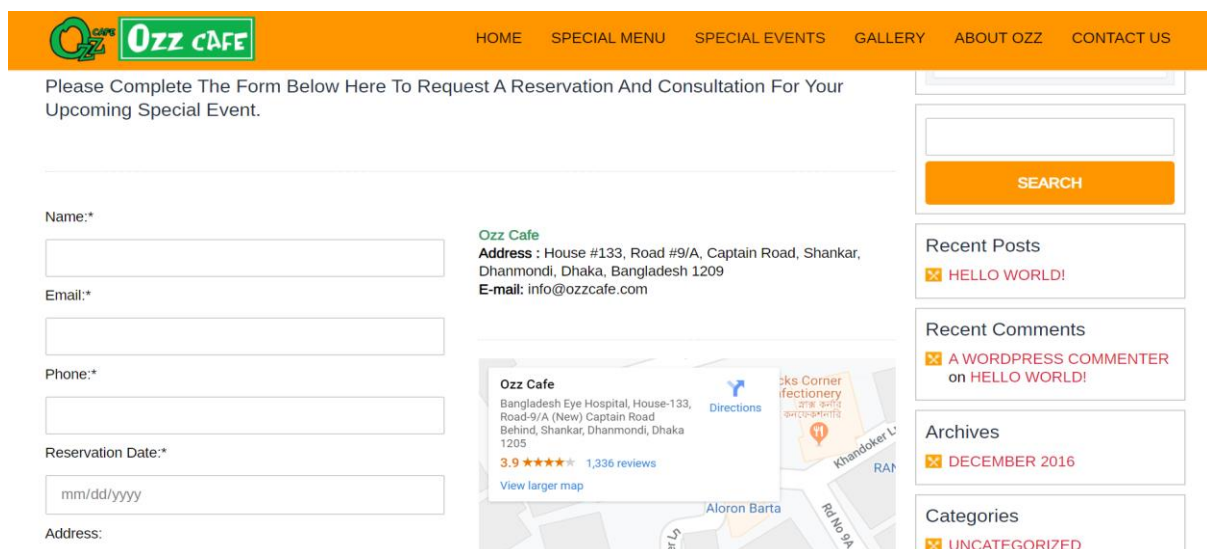


Figure 2.2.3: Ozz Café [4].

The 'OZZ CAFÉ' has website and various options like special menu, special event. For special event they provide table booking system. So we can book a table if we need before going to the restaurant and time is not wasted.

LUCKNOW DHAKA

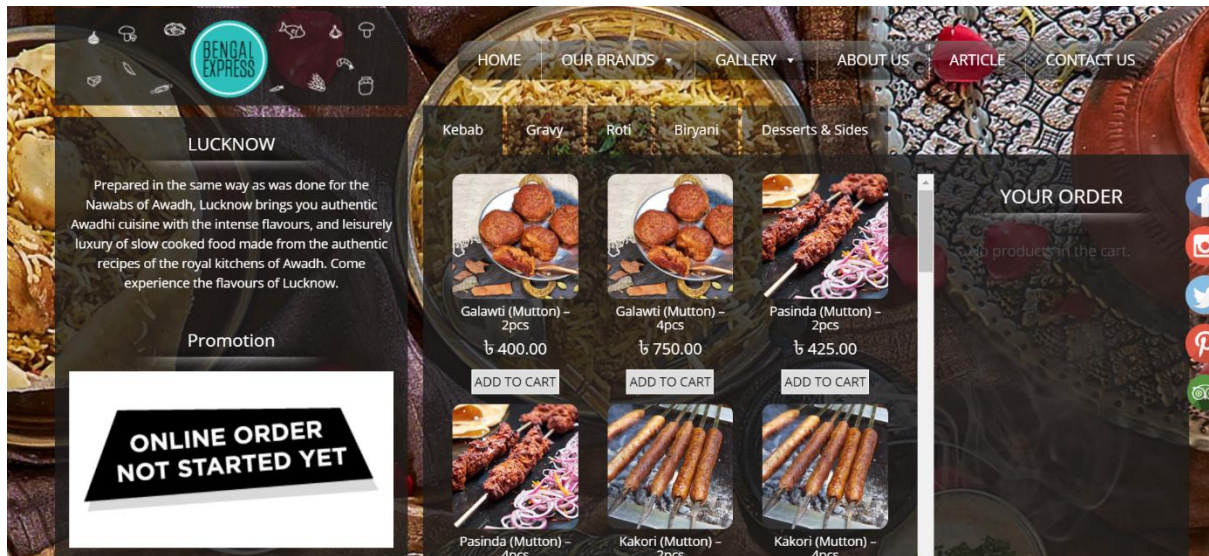


Figure 2.2.4: Lucknow Dhaka [5]

Lucknow is a very popular restaurant and many people go there. The Bengal express ltd control this restaurant. They provide delicious food item in dine and also online home delivery. They have reservation option too.

GRANDIOSE RESTAURANT



With a contemporary yet elegant setting sprawled over a space of 8,500 sq. ft., the Grandiose Restaurant is the nation's largest multi-cuisine 5-star class restaurant, allowing plenty of privacy to all our patrons.

Grandiose Restaurant offers all day dining and an innovative, seasonal menu. Over 101 Buffet dishes comprise of Italian, Mediterranean, Japanese, Thai, Chinese, South Asian and Bangladeshi cuisines. Savor our Fresh house-made pastas, meat dishes, seafood, pastries, gelatos and a variety of European & Arabic desserts.

The First Day of Bengali Year, Mother's Day & Women's Day special dining, Ramadan Iftar followed by Dinner, Valentine's Day Special Buffet, Friendship Day, Pitha Utshab, Halloween Special Buffet are to name just a few of the events that we celebrate with splendor

Location: Level 6

Opening Hours: 6:30 am-11:00 pm

Capacity: 100 persons

Telephone: +880-1713332661



Virtual Tour

Restaurant Booking

Name

Contact Number

Email Address

Comments

Figure 2.2.5: Grandiose Restaurant [6].

Grandiose Restaurant various special menu like buffet dishes, Italian, Japanese, Thai, Chinese cuisines. They didn't have nice website but have a restaurant booking option.

2.3 Comparative Studies

"Online Restaurant System" the web application is very effective and desired website for every people who wants to reduce their time wasting in the restaurant queues. This website provides the online table booking option and online food ordering service before going to the restaurant. Many restaurants have provided reservation option but they did not provide any notification for that in online. When any User fill-up their form and send it then restaurant confirm this booking via mobile phone. And they don't provide online food ordering services. We try to make a constitutional framework and modified for all which is more comfortable. We hope it is the simple solution for major problems. Our project does it in online with an emphasis on quality and main thing is any User can order food before come to the restaurant. So they save their valuable time by eliminating long queues.

2.4 Challenges

All the works have some challenges. Same to the others, we also faced some challenges in our project. After solving the all kinds of problems we complete our work successfully. Some problems which are we faced to get proper system are improve service quality, user experiences, thinking and so on.

We also faced many other challenges like,

- Work with payment option
- Notification system and
- To collecting the other restaurants information
- Online food ordering option

CHAPTER 3

REQUIREMENT SPECIFICATION

3.1 Requirement Collection and Analysis:

This web application is usable basically for the smart phone/pc user. For smooth work this project requires very simple configuration.

Hardware configuration required:

- Smartphone or computer for both User and restaurant.

Software configuration required:

- OS: Windows, Linux, Mac, Android.
- Browser Capability: Microsoft Edge, Google Chrome, Mozilla-Firefox, Opera mini.
- Internet connection.

It also required the following requirements:

- User friendly design
- Effective outcome
- Working efficiency

3.1 Design Requirements

- Registration and Login option
- Reservation option
- Easy access to a menu
- Payment option
- Social media button
- Notification for quick access to location, phone number and hours of operation

3.1.1 Features

In the proposed system we have several feature. These are: -

- Registration by e-mail, name and phone number.
- Sign-in
- Show all added menus
- Set online table booking
- Set online food ordering
- Set various payment option both online and cash
- Send notifications
- Show the location
- Sign-out

3.2 Use Case Model Diagram

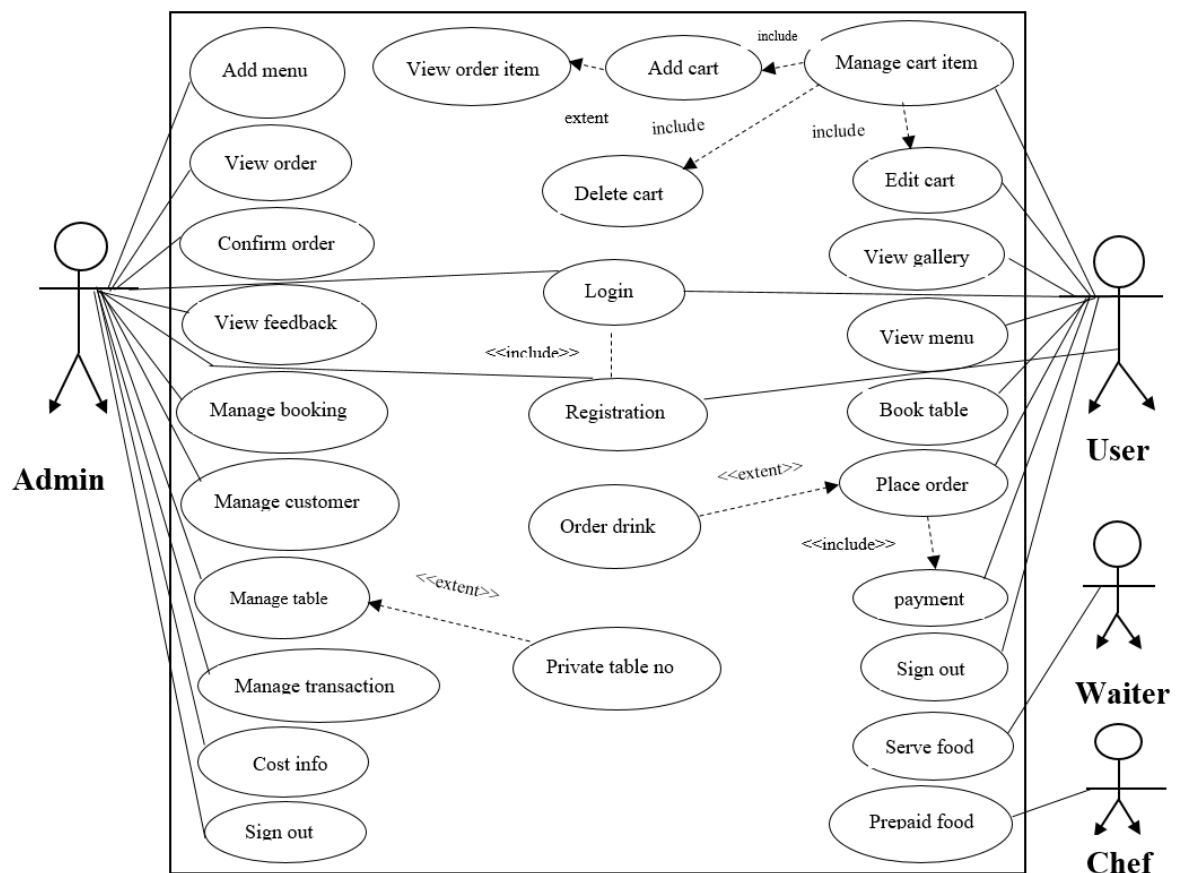


Figure 3.2: Use Case Model

In this Use Case Model there are four actors. First one is admin, second one is User, third one is chef and last one is waiter. Here we can see both admin and User actor need valid mobile number for registration. Without verify the mobile number no one can complete the registration process. After registration both actor will directly have logged in. Only a registered user can book a table and order foods.

3.3 Use Case Model Description

Use Case 01: Access NSAreastaurant.com

Primary Actor: Users

Pre-Condition: Internet Connection

Entry Condition: Enter the following link NSAreastaurant.com

Event Flow: Click on various section of the website

Exit Condition: Click the back arrow

Use case 02: Registration

Primary Actor: User, Admin

Pre-condition: Internet Connection, Enter valid mobile number, Email

Entry Condition: Click the Sign Up button

Event Flow: The admin and user will give the info correctly

Exit Condition: Click the submit button

Use Case 03: Login

Primary Actor: Admin and User

Pre-Condition: Internet Connection, Enter user name and password

Entry Condition: Click the Login button

Event Flow: Admin and User will give email and password correctly

Exit Condition: Click the Logout button

Use Case 04: View Any Food

Primary Actor: User

Pre-condition: Internet Connection

Exit Condition: Click the back arrow

Use Case 05: Make a reservation

Primary Actor: User

Pre-condition: Internet Connection, login

Entry Condition: Click on table book option

Event Flow: Enter the preferable date and time

Exit Condition: Click the submit button

Use Case 06: Place an Order

Primary Actor: Users

Pre-condition: Internet Connection, book a reservation

Entry Condition: Click on menu option

Event Flow: order your food

Exit Condition: Click the submit button

3.4 Flowchart

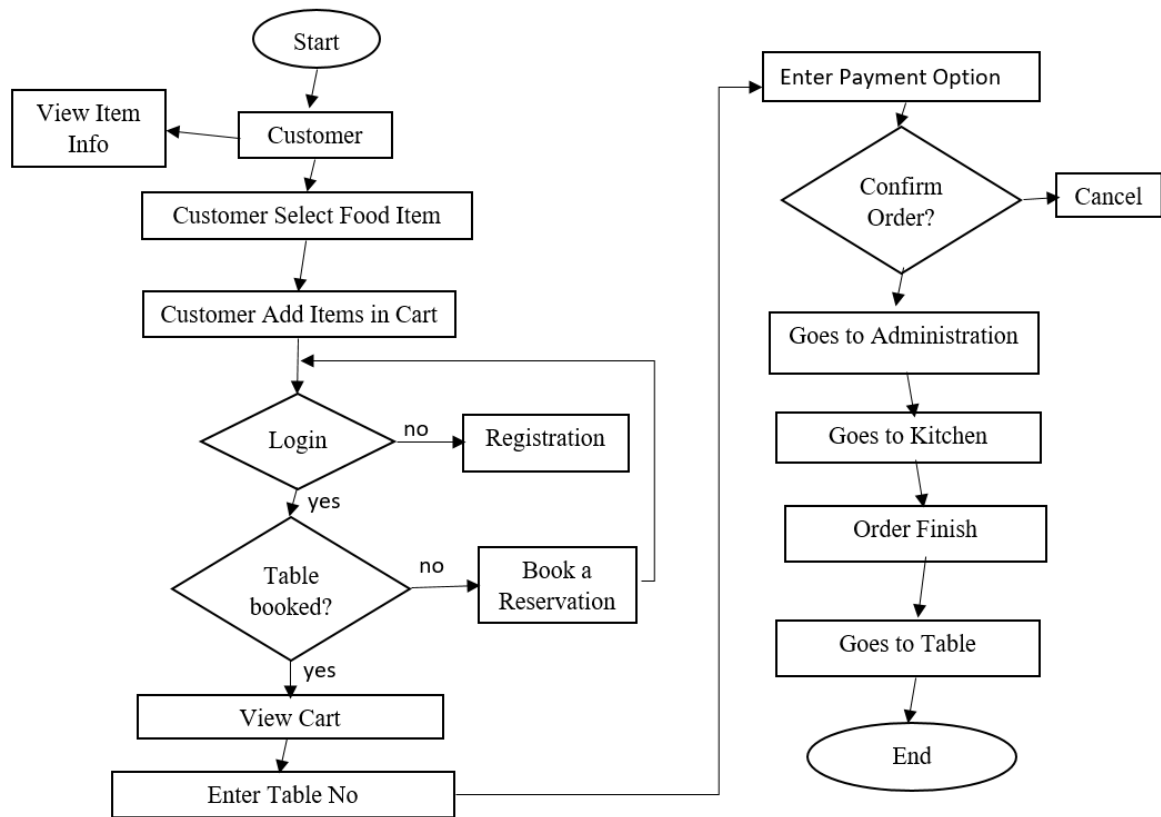


Figure 3.4: Flowchart

3.5 Dataflow Diagram

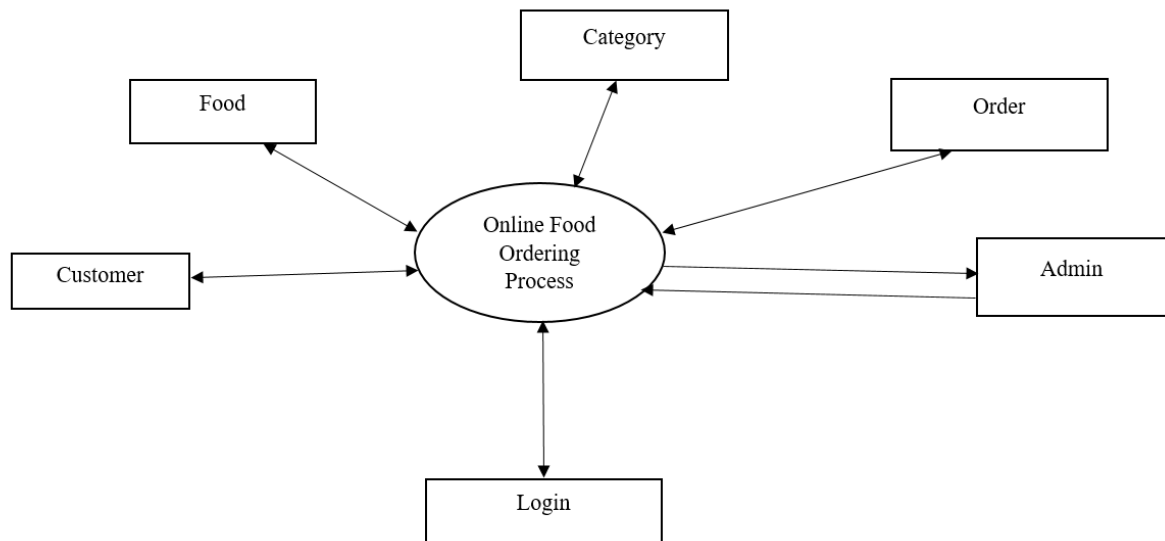


Figure 3.5.0: Dataflow diagram for online food order

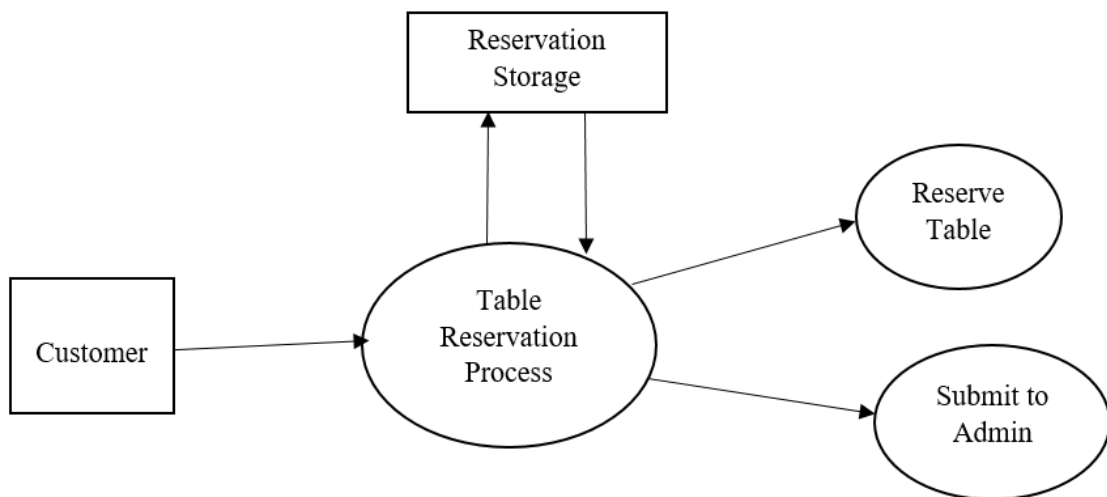


Figure 3.5.1: Dataflow diagram for User reservation

3.6 Class Diagram

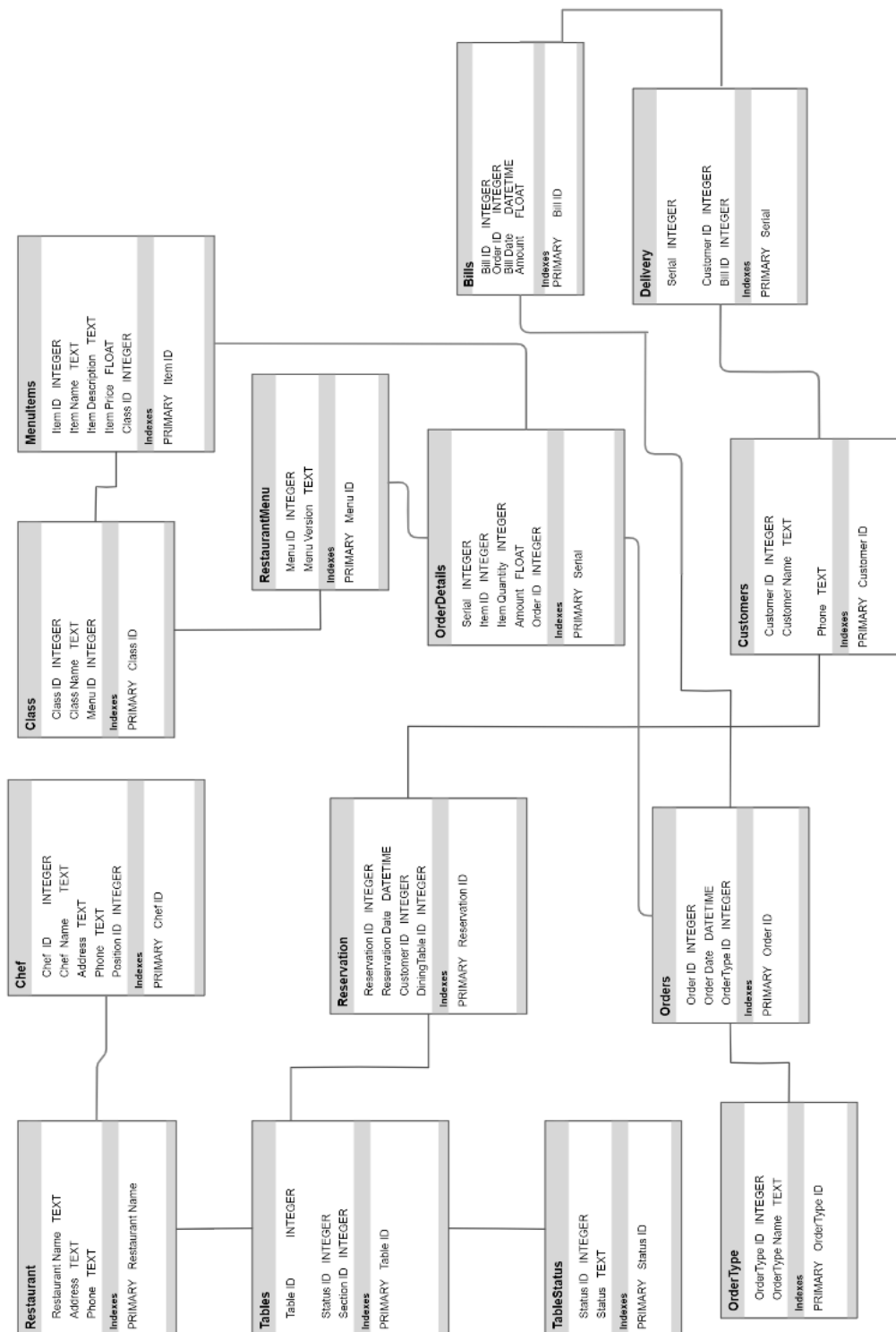


Figure 3.6: Class diagram

CHAPTER 4

DESIGN SPECIFICATION

4.0 Front end Design or UI Design

The front-end design makes an application more attractive to the users. This design is the development of the application for users. It should be attractive and users should not feel uneasy or annoyed in time of using the application.

Starting Page

Here is the starting page of the application. This design is a different slider pages for to attraction.

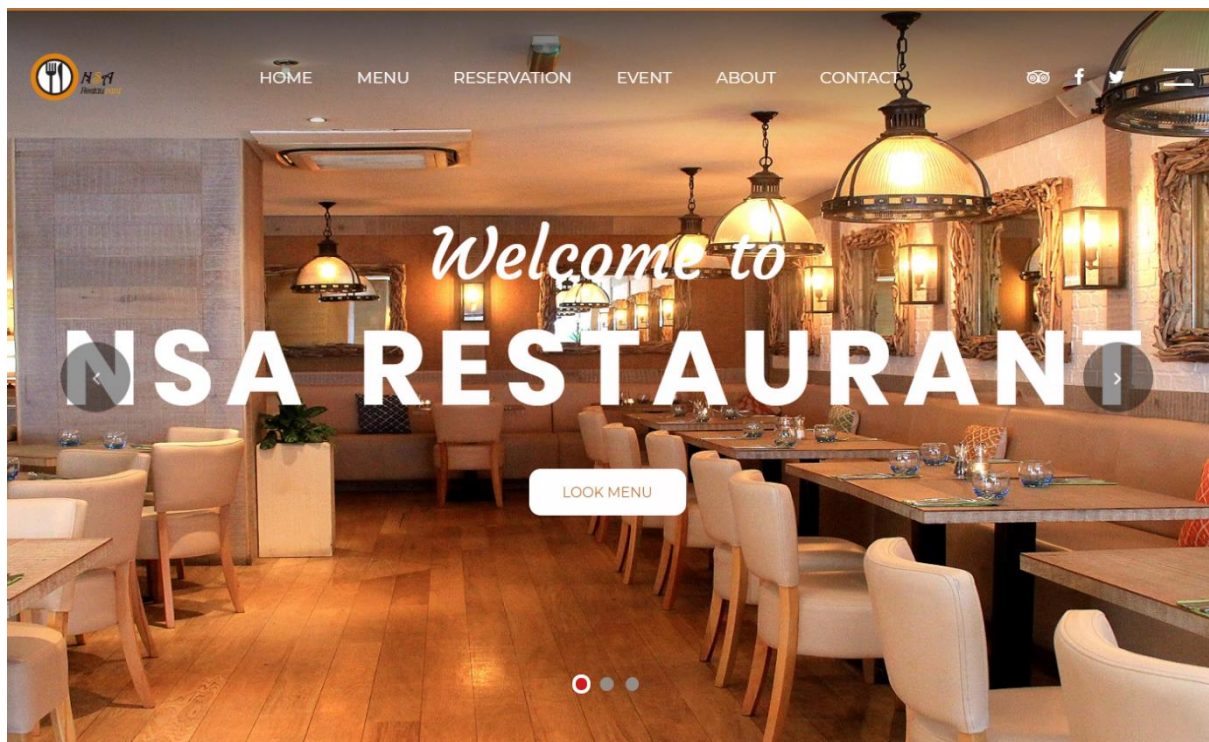
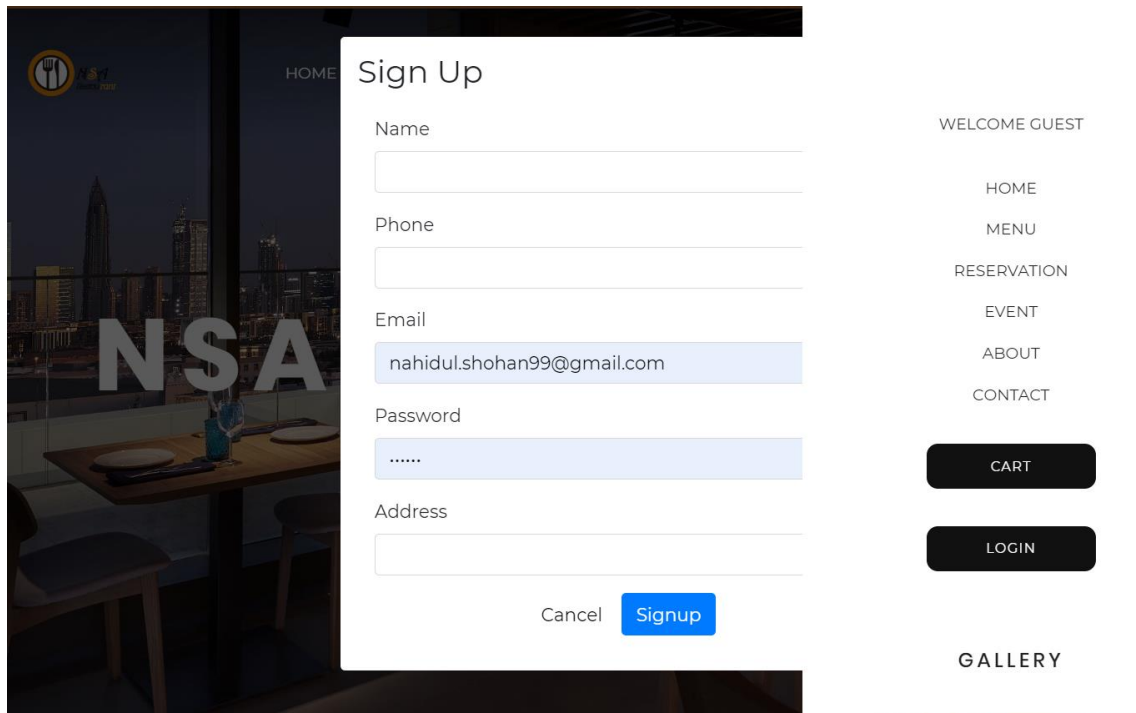


Figure 4.0.1: Front page of our website

Registration Process for Admin and User

Here is the registration process pages' design for both admin and Users. Both need a valid mobile number and e-mail for registration.



The image shows a web application interface. On the left, there is a background image of a restaurant interior with a table and chairs, overlaid with a large 'NSA' logo. A 'Sign Up' modal form is open in the center. The form has the following fields: Name, Phone, Email (with the value 'nahidul.shohan99@gmail.com'), Password (with masked characters '.....'), and Address. At the bottom of the form are 'Cancel' and 'Signup' buttons. To the right of the modal, there is a navigation menu with the following items: WELCOME GUEST, HOME, MENU, RESERVATION, EVENT, ABOUT, CONTACT, CART, LOGIN, and GALLERY. A close button (X) is located at the top right of the modal.

Figure 4.0.2: Registration Process for Admin and User

Login Process for Admin and User

Here is the registration process pages' design for both admin and Users. Both need a valid mobile number and e-mail for registration.

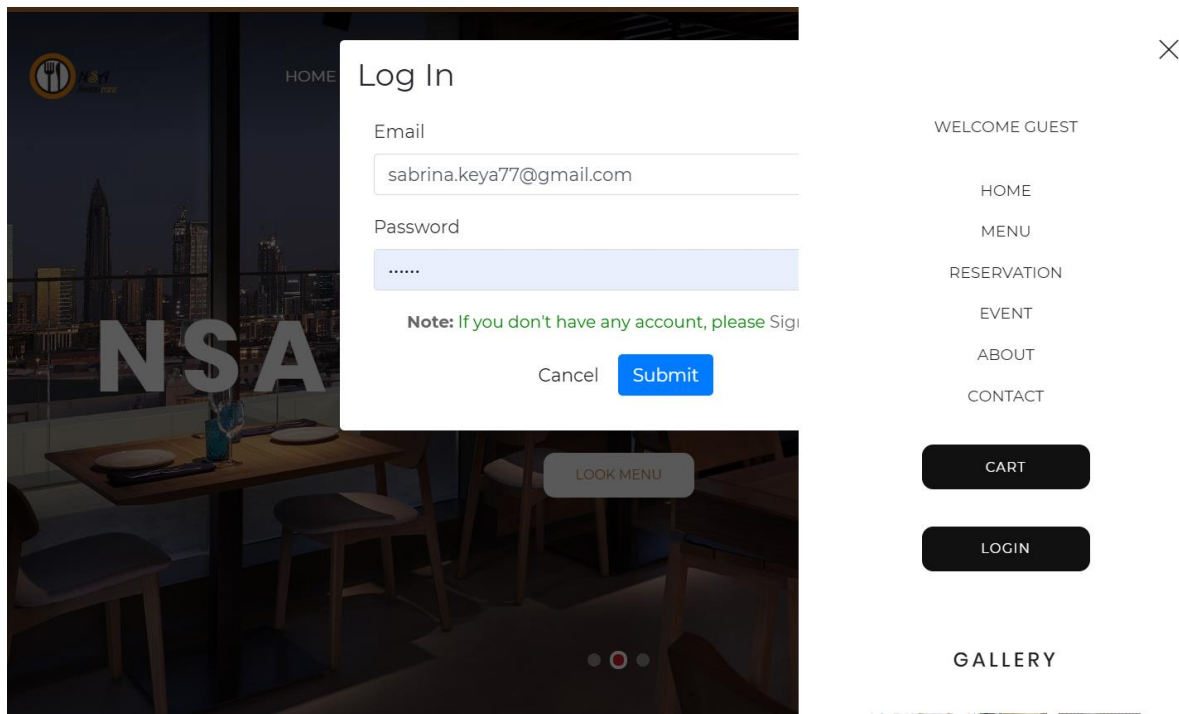


Figure 4.0.3: Login Process for Admin and User

Reservation Page View

In the Reservation Page Users have to complete the three paths date, time and how many peoples and then submit. For reservation, User's must have to login their id.

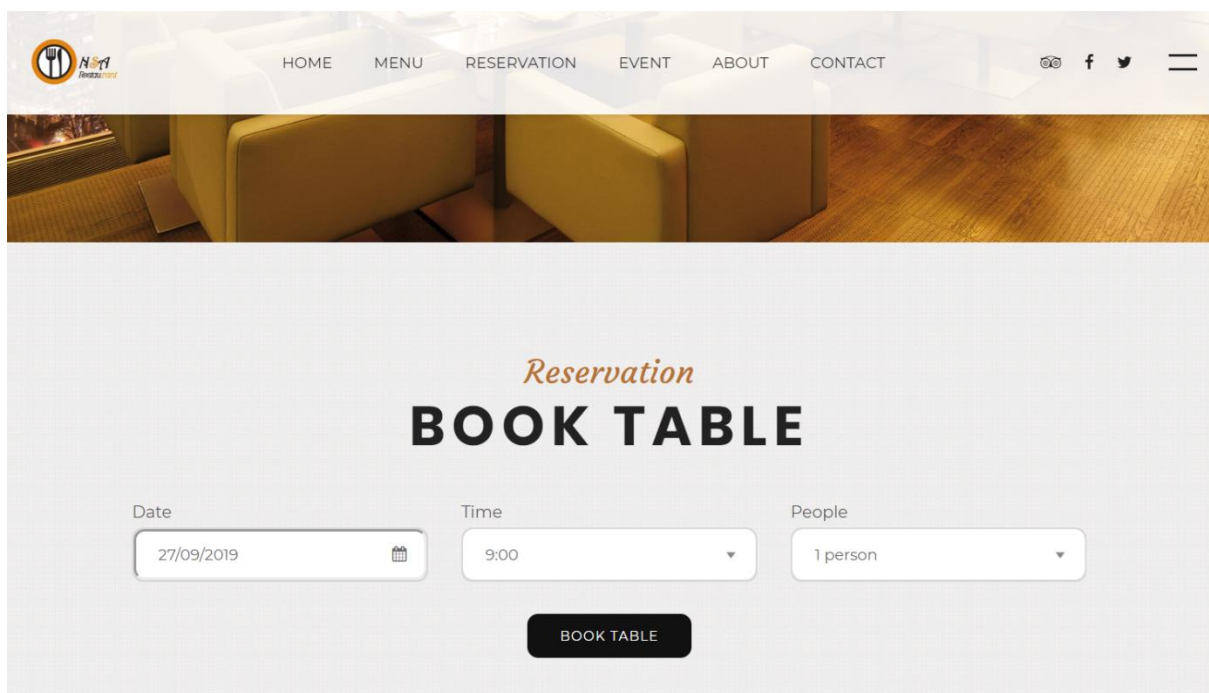


Figure 4.0.4: Reservation page

Menu Page View

Here is the menu page of the website. There are two options to select the food item as Lunch and Dinner. If any User wants to order any food item, they should simply click on the food item. After clicking the food items these are added the cart option. But User have to book a reservation for order a food item.

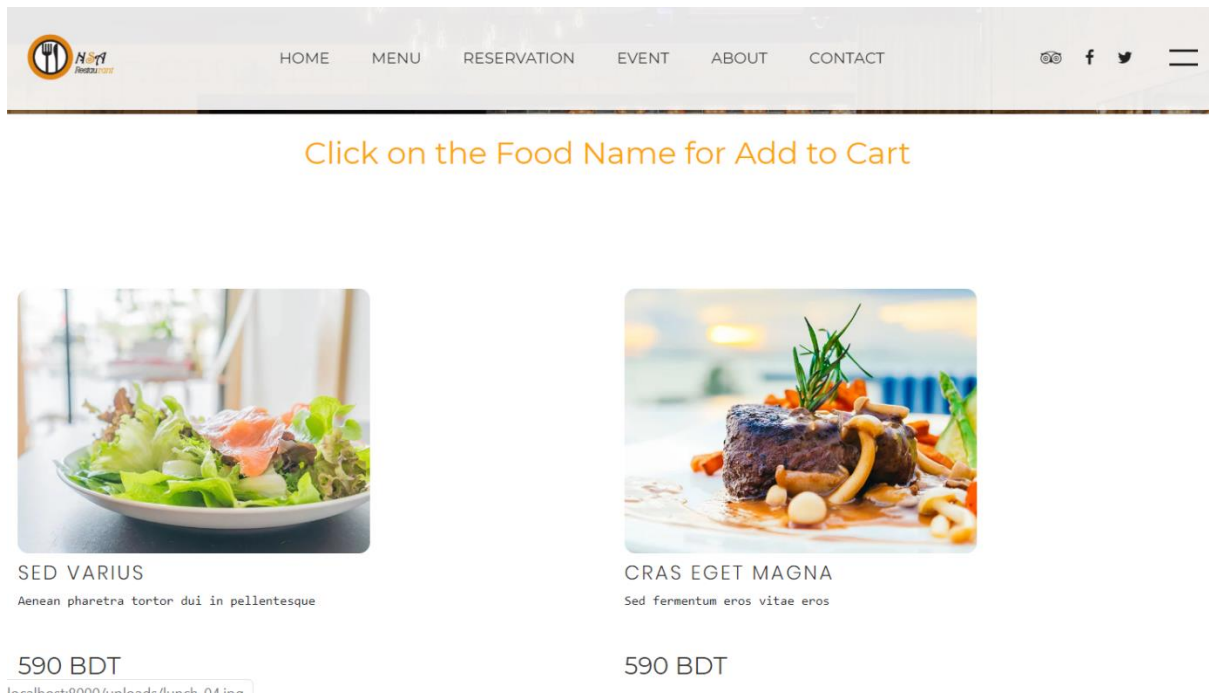


Figure 4.0.5: Menu page

Cart

After adding foods for order, its goes to the cart option. Here is the design for these processes.

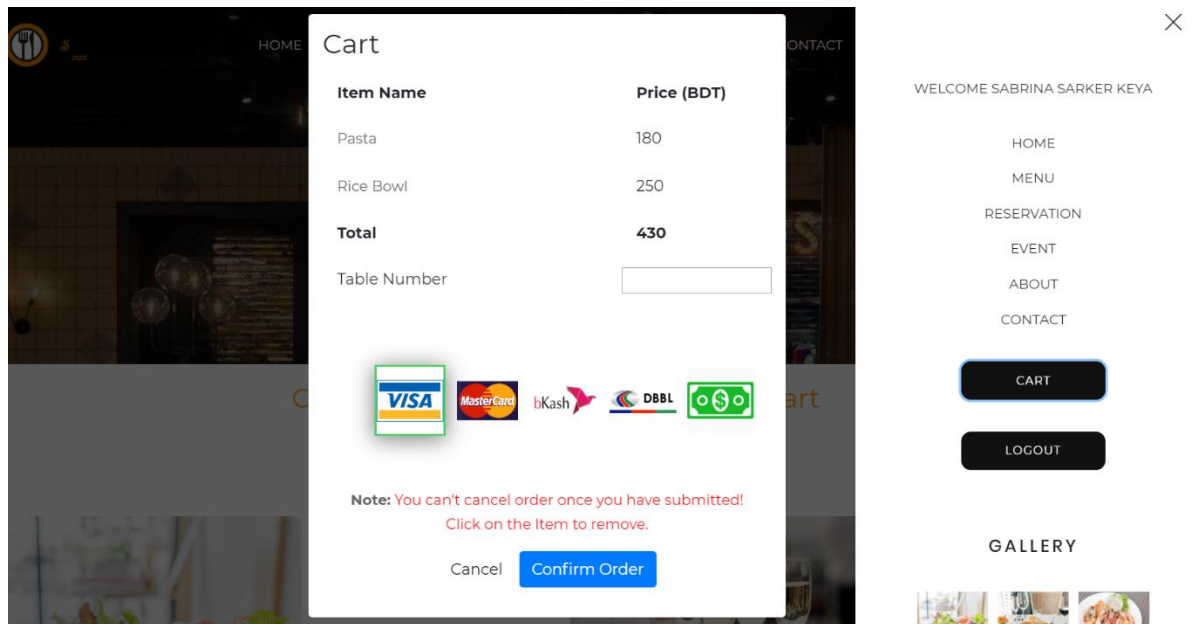


Figure 4.0.6: Cart page

Event Page

Some special offer added this page for any occation or party.

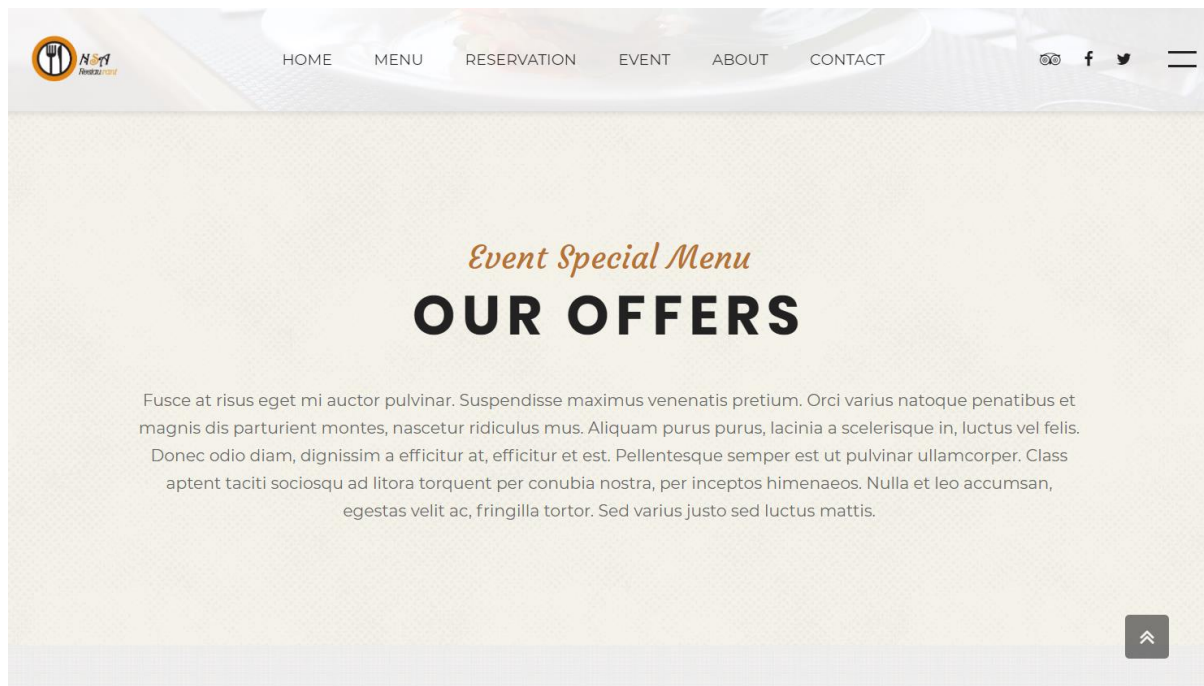


Figure 4.0.7: Event page showing

About

Here is the design about the restaurant history, their working video and their chef .

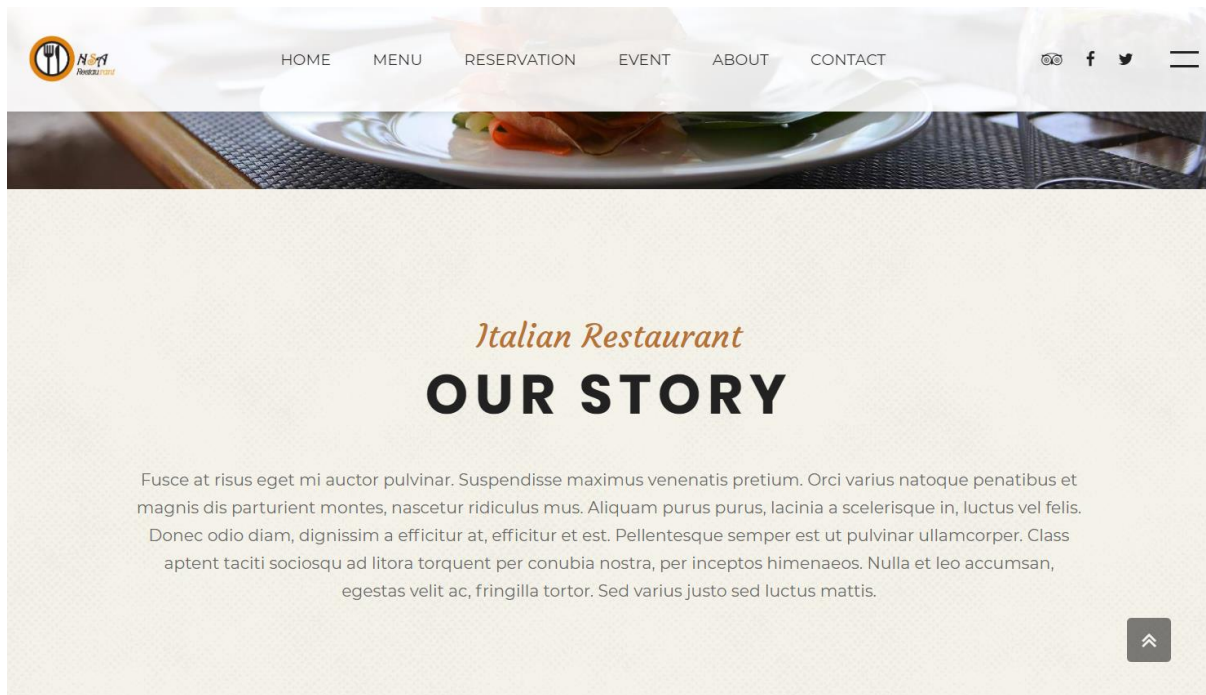


Figure 4.0.8: About Page

Contact

This is the contact page design. Map, location information, opening hours' information, contact number, message option all are design here.

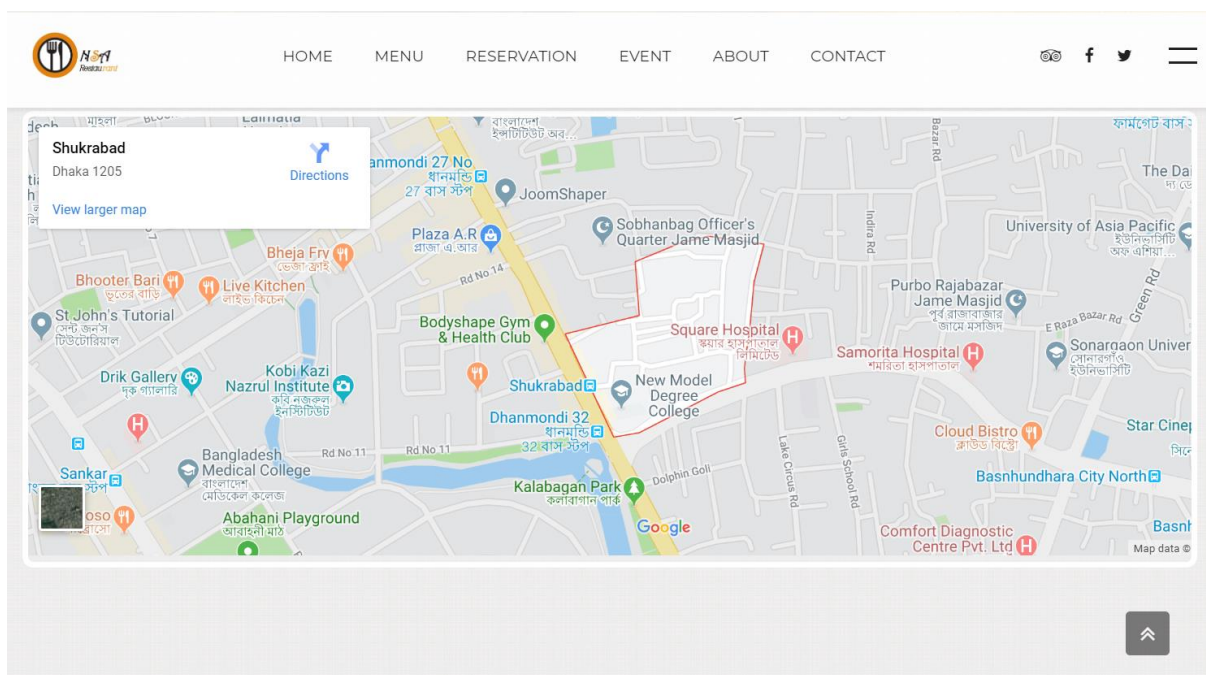
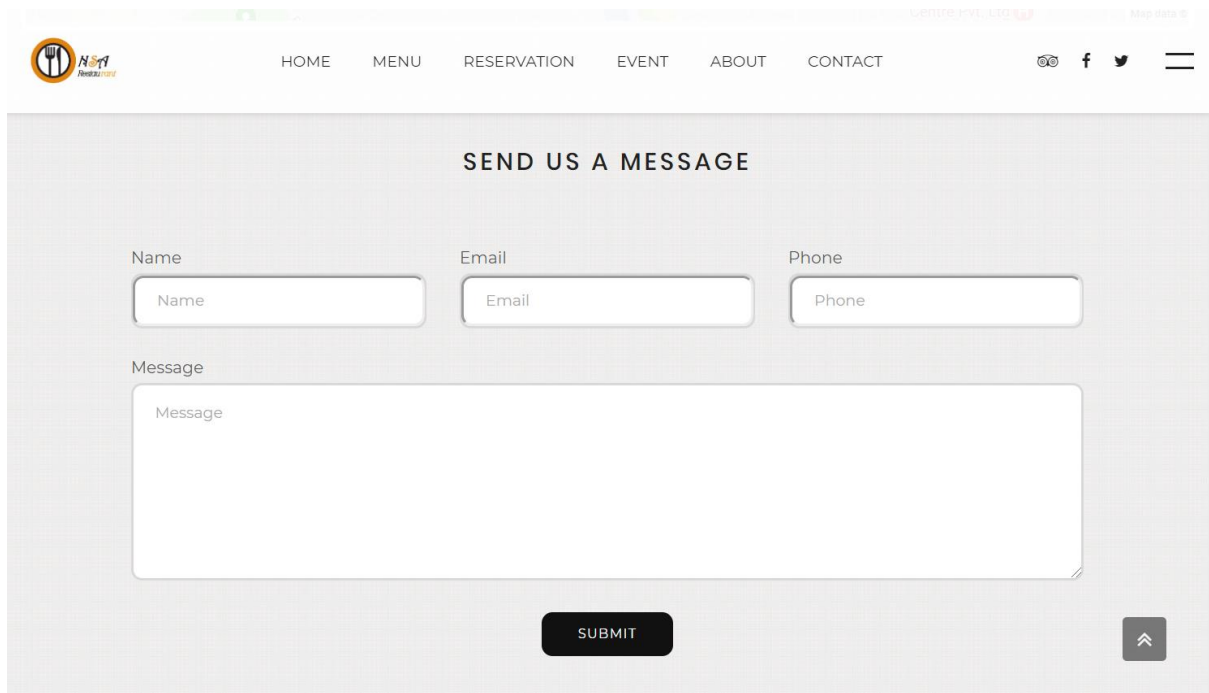
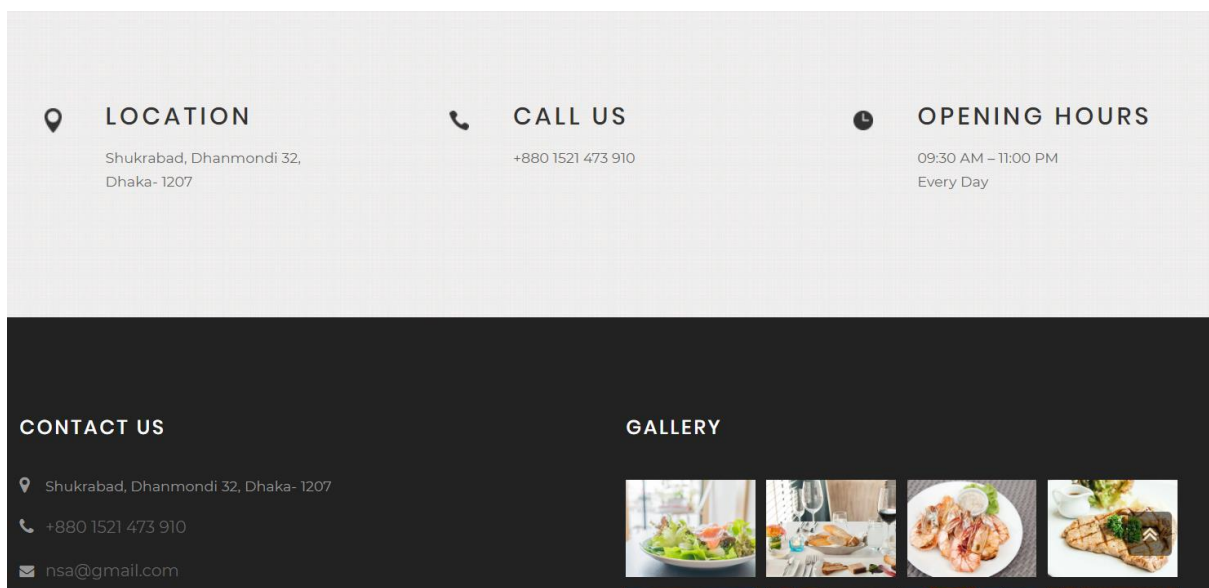


Figure 4.0.9: Map showing



The screenshot shows a web form titled "SEND US A MESSAGE". At the top, there is a navigation bar with links: HOME, MENU, RESERVATION, EVENT, ABOUT, and CONTACT. To the right of the navigation bar are social media icons for Instagram, Facebook, and Twitter, and a hamburger menu icon. The form itself has a light gray background. It contains four input fields: "Name", "Email", "Phone", and "Message". The "Message" field is a larger text area. Below the input fields is a black "SUBMIT" button. In the bottom right corner of the form area, there is a small gray button with an upward-pointing arrow.

Figure 4.0.10: Massage option



The screenshot shows a contact information section. It is divided into two main horizontal sections. The top section has a light gray background and contains three columns: "LOCATION" with a location pin icon and address "Shukrabad, Dhanmondi 32, Dhaka- 1207"; "CALL US" with a phone icon and number "+880 1521 473 910"; and "OPENING HOURS" with a clock icon and text "09:30 AM – 11:00 PM Every Day". The bottom section has a dark gray background and contains two columns: "CONTACT US" with a location pin icon, address "Shukrabad, Dhanmondi 32, Dhaka- 1207", phone icon, number "+880 1521 473 910", and email icon, address "nsa@gmail.com"; and "GALLERY" with four small images of food dishes.

Figure 4.0.11: Contact Info

Footer

This is the fixed footer design.

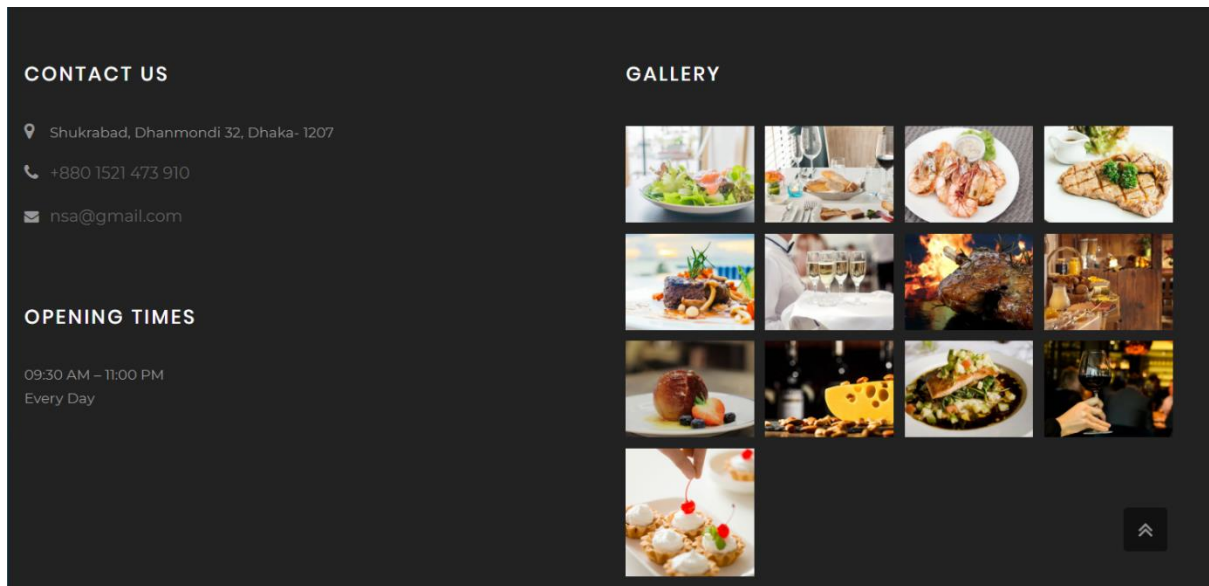


Figure 4.0.12: Footer design

4.1 Back-end Design

The backend of a website is the most constitutive part of a website. All the indiscrete things occur here. In this part involved with how things will be on the interface, which activity will work, the security of the web.

Name	Date modified	Type	Size
css	7/26/2019 5:43 PM	File folder	
font-awesome	7/26/2019 5:43 PM	File folder	
fonts	7/26/2019 5:43 PM	File folder	
images	10/9/2019 11:57 PM	File folder	
js	7/26/2019 5:43 PM	File folder	
uploads	10/9/2019 11:12 PM	File folder	
vendor	7/26/2019 5:44 PM	File folder	
.htaccess	5/30/2019 8:10 PM	HTACCESS File	1 KB
favicon.ico	5/30/2019 8:10 PM	Icon	0 KB
food.php	7/1/2019 12:59 PM	PHP File	3 KB
index.php	8/30/2019 3:39 PM	PHP File	2 KB
robots.txt	5/30/2019 8:10 PM	Text Document	1 KB
user.png	2/9/2019 1:52 PM	PNG File	44 KB
web.config	8/30/2019 3:39 PM	CONFIG File	2 KB

Figure 4.1.1: Back-end Design

Name	Date modified	Type	Size
Console	7/26/2019 5:43 PM	File folder	
Exceptions	7/26/2019 5:43 PM	File folder	
Http	7/26/2019 5:43 PM	File folder	
Providers	7/26/2019 5:43 PM	File folder	
Book.php	7/22/2019 10:55 PM	PHP File	1 KB
Cart.php	7/22/2019 10:55 PM	PHP File	1 KB
Food.php	7/22/2019 10:55 PM	PHP File	1 KB
Orders.php	7/22/2019 10:55 PM	PHP File	1 KB
User.php	5/30/2019 8:10 PM	PHP File	1 KB
Users.php	7/22/2019 10:52 PM	PHP File	1 KB

Figure 4.1.2: Back-end Design

Name	Date modified	Type	Size
 app.php	5/30/2019 8:10 PM	PHP File	9 KB
 auth.php	5/30/2019 8:10 PM	PHP File	4 KB
 broadcasting.php	5/30/2019 8:10 PM	PHP File	2 KB
 cache.php	5/30/2019 8:10 PM	PHP File	3 KB
 database.php	5/30/2019 8:10 PM	PHP File	5 KB
 filesystems.php	5/30/2019 8:10 PM	PHP File	3 KB
 hashing.php	5/30/2019 8:10 PM	PHP File	2 KB
 logging.php	5/30/2019 8:10 PM	PHP File	3 KB
 mail.php	5/30/2019 8:10 PM	PHP File	5 KB
 queue.php	5/30/2019 8:10 PM	PHP File	3 KB
 services.php	5/30/2019 8:10 PM	PHP File	2 KB
 session.php	5/30/2019 8:10 PM	PHP File	7 KB
 view.php	5/30/2019 8:10 PM	PHP File	2 KB

Figure 4.1.3: Back-end Design

CHAPTER 5

IMPLEMENTATION AND TESTING

5.0 Requirements for Implementation

For the implementation of our project we need some basic requirements. Without those things we cannot run our project as we want to run for achieving our goal. The implementation process will start after fill those requirements which we mentioned below.

- Internet connection for Restaurant admin and User
- Android Mobile or Computer for both Admin and User
- Both Admin and User need valid mobile number

5.1 Database Implementation

A Web database is a database application intended to be overseen and gotten to through the Internet. Site administrators can deal with this accumulation of information and present logical outcomes dependent on the information in the Web database application. Database have been an advantage for organizations, permitting the gathering of apparently unending measures of information from unbounded measures of Users.

5.2 Testing Implementation

This is the process that can consider as in where an application tester or it can be the builder of that application will be able to check many cases for the completion of the application and specification. But maybe there have the limitation in the application at the initial stage or in next.

Table 5.2: Test case appraisal

Test Case	Test Input	Outcome expected	Obtained outcome	Passed/Failed	Testing Period
Registration	Registered by valid info	Successfully registered	Successfully registered	Passed	13-10-2019
Registration	Registered by invalid mobile number	Re-enter warning for failure	Registered denied	Passed	13-10-2019

Registration	Registration with empty field	Re-enter warning for failure	Registration denied	Passed	13-10-2019
Login	Login by valid user name and password	Successfully login	Successfully login	Passed	18-10-2019
Login	Login by invalid user name or password	Re-enter username and password	Login denied	Passed	18-10-2019
Add new food items	Input new food	New food add successfully	New food add successfully	Passed	18-10-2019
Interface	Developed for various types of smartphone and computer	Support all device	Support all device	Passed	20-10-2019
Data store and load	Data will store and load	Stored and loaded successfully	Stored and loaded successfully	passed	20-10-2019
Sign out	Return to the Registration Process	Task successful	Task successful	Passed	20-10-2019

5.3 Test Result and Reports

The test results for the website are combined to set up the test report. The report officially depicts the imprint of the test. It records the information gained from the evaluation of the website and helps to overcome the problems. This is an incredible help in achieving the goals of improvement initiatives. There different types of tests:

- Security
- Representation
- Usability

- Localization
- Functionality
- Scalability
- Recoil
- User Interface Interaction

CHAPTER 6

CONCLUSION AND FUTURE WORK

6.1 Discussion and Conclusion

Finally, our project is done. It was a great journey to develop the website. We implement all aspects of its. We are very to create something that will help ordinary people very much. The determination, dedication and goodwill of ours have made us successful in developing such project. This is especially made for every people who love go to restaurant and want to save their valuable time without wasting. We think the project will be a great success.

All thank go to the Almighty for blessing with determination to finish our project. We sincerely thank our supervisors who assisted us in every possible way to get our work done.

6.2 Future Development

In the future, we plan to add even more benefits to this project. There are many future opportunities to make this project more user friendly. Some future developments may be as follows:

- The database can be more detail
- More section can be listed on the website
- Can be develop for android
- Additional features can be added
- Make notification option for user so that they can easily get notification message time to time
- The admin section can be developed to make it easy to add new category

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