

**RANNAGHARA**  
**ONLINE RESTAURANT AND HANDICRAFT SHOP**  
**BY**  
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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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**DAFFODIL INTERNATIONAL UNIVERSITY**

**DHAKA, BANGLADESH**

**OCTOBER 2018**

## **APPROVAL**

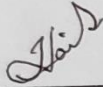
This Project titled "RannaGhara", submitted by MD.ABU SAYEED, ID No: 151-15-5491 to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on December 11, 2018.

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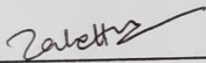
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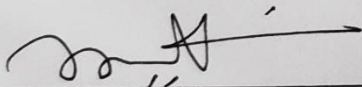
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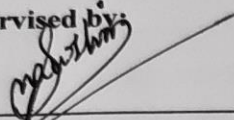
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## DECLARATION

We hereby declare that, this project has been done by us under the supervision of **Ms. Samia Nawshin, 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.

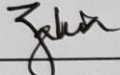
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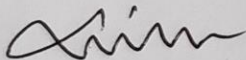
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Finally, we must acknowledge with due respect the constant support and patients of our parents.

## **ABSTRACT**

RannaGhara is online shopping system that permits a customer to submit online orders for items and services from a store that serves both walk-in customers and online customers. RannaGhara build user friendly Online Food ordering system with tailored website and application to manage and sell foods online and order processing and delivery. Define fast food automated ordering system. This website designed primarily for use in the food delivery Industry, School, College, University and Office. RannaGhara does not settle with a credit supplier of the customer until the item selected by the customer is picked from inventory but before it is monthly Statistics of your store in the form of diagram. You can also choose the period of time, for which the information on the dashboard is displayed. The middle bar also lets you select the language of the admin panel and the currency to use on the Dashboard and in sales reports. The administrator will be able to see all the orders made by all the customers. The administrator will also be able to view, add, update and delete the product and customer information.

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# CHAPTER 1

## Introduction

### 1.1 Introduction

RannaGhara is the process of Online shopping with manage system of E-Commerce. Online shopping is the process of buying goods and services from merchants who sell on the Internet. There are two parts to a patent application one of them food order for client and all Customer and Handicraft shop for fashion and decoration your room.

There are lot of products stock in this site customer can buy any products. After view all pages and purchase a product for shipping to delivery. Online Restaurant is the process of delivery food for hungry people.

### 1.2 Motivation

Internet is One of way Virtual life business process. If you can established a Online food corner or shop esaly. The in store experience as define in this study include the perception on the store. Now this discussion about Motivation.

- Internet is the virtual marketplace Sell Anything.
- Design and build an easy-to-use website.
- Increase your income through back-end sales and upselling.
- User within sort time view this web site cart products and purchase.
- Log in to your account or sign up for free.

### **1.3 Objectives**

The The main purpose of development of this site for business model. Now this time online Business is the popular internet thing of E-Commerce. After all Flow same step to develop in this site.

- Improve customer experience & satisfaction.
- Customer can purchase same time food and handicraft.
- The Purpose of Service-Based Business Websites.
- Providing unemployment Employment.
- Payment Gateway and Cash on delivery.

### **1.5 Expected Outcome**

Online Shopping is one of the applications to improve the marketing of the company's products. Scope of the project: This system will reduce the manual operation required to be working satisfactory as regards to the expected output from the module. Hence output testing did not result in any correction for the system.

- The project objective is to deliver the online shopping application into android
- Customer view products and order both of products
- After cart to products fill-up shipping address
- Cash and delivery and payment gateway both option for
- After receiving the order, the SMS will be communicated through

## **1.5 Report layout**

### **Chapter 1: Introduction**

This is the project of E-commerce site. Customer view all type and Category food in this site and usually makes order to purchase food and product. Its the projects ranging software development to developing only for business. So when I developed this project finally and view live server every people for customize .

### **Chapter 2: Background**

Rannaghara is the project of foode people for delivery for food. There another tools use in this projects. At first study of Shopping system about how can create a shopping site and development requirement. All of study for Educational motivation of the know about internet o thing and create new invention.

### **Chapter 3: Requirement Specification**

A simple people need same food everyday. this the main concept of this project. there are same kind of requirement use in this project. How can improve User interface active and user friendly for user.

### **Chapter 4: Design Specification**

Design is main part of the Online Shopping system. We can another thing of design projects. This is web base project so obviously Use same www web tools. HTML, CSS And JS is the design language of this Shop.

### **Chapter 5: Implementation and Testing**

Implementation is the main part of this program. at first create a PSD form for adobe then makes sure how can tools use develop for this project, After all develop this site and implementation three ways.

## **Chapter 6: Conclusion and Future Scope**

This project is Best model of online restaurant business model. After all when this project live in this market commercially bright of the future scope. It is also your opportunity to make a good final impression and to end on a positive note.

## **CHAPTER 2**

### **Background**

#### **2.1 Introduction**

RannaGhara is define a Online restaurant management system for sales food and handicraft shopping. When a foode people search same food for purchase food then we delivery best quality food service for shipping.

E-commerce market growth in Bangladesh is influenced by huge investment by venture capitalists, expansion of e-commerce in nonmetropolitan Bangladesh, online presence of large retailers and usage of mobile and social media.

#### **2.2 Related Works**

There are some kind of works are related to my work and here the breif link included to check-out the examples of related work and description. These sites are providing the E-commerce tools and services for the web users for a service provider.

Foodpanda GmbH is a German mobile food delivery marketplace headquartered in Berlin, Germany, operating in 10 countries and territories. The service allows users to select from local restaurants and place orders via its mobile applications as well as its websites.[11]

Pathao is a Bangladeshi transportation technology company headquartered in Dhaka, Bangladesh and its operating services in 3 main cities of Bangladesh. Currently it is operating in Dhaka, Chittagong and Sylhet along with several suburbs of Dhaka and Chittagong.[15]

Foodmart is an online food ordering marketplace. We bring the best and popular meal from the restaurants to your door. Synonyms for food mart at Thesaurus.com with free online thesaurus, antonyms, and definitions. Find descriptive alternatives for food mart. Reviews from Al Premium Food Mart employees about Al Premium Food Mart culture, salaries, benefits, work-life balance, management, job security. [7]

Hungry Naki is an online food delivery service in Bangladesh. They deliver food at your doorsteps. HungryNaki.com offers the first and fastest online food ordering and delivery platform in Bangladesh. Customers can choose to order Tag Archives: Hungry Naki. Deep Dive These On-Demand Food Delivery Startups Aim To Disrupt How You Eat In Dhaka [4]

## **2.3 Comparative Studies**

The comparative method is often used in the early stages of the development of a branch of science. RannaGhara help people to get the product easily. They no need to go so far to get it , only search the internet. RannaGhara is pretty much different form foodpanda and foodmart. It has some cool features and program for the users and admins. Both will feel comfortable to use and customize the sites directly order to Rannaghara kitchen. Pathao has much popularity and many professional features but Rannaghara has some simple features that is much better than others online shopping.All popular Food restaurant can process and order client and restaurant partner. But Rannaghara is directly process delivery food client to RannaGhara with riders.

Many other apps have much more professional diagnostic tools but it can find errors and complex function between users and admin functionality. Custom theme and media storage tool will create a powerful usability of this application

## **2.4 Scope of the Problem**

The scope of study basically all of thing will be develop this site . The esentail is to define explicitly of this study to make a better future scope.

When a viewer visit on this site actually understanding and deliberate of this idea.Its impact of nature of economics are related all of shopping thing.The problem of this study its so much little of development site.After all Add new feature and update for user requirement.

Finally say this Food is the main part of Shopping site manage.Get a good result and better solution.

## 2.5 Challenges

All most Successfully develop this project. Now create a user interface active more then. Effective communication to everyone involved in the project and describe all thing.

- Create Register. Ideally create a collaborative document online
- Log Issues. Make sure people know who can log issues and that they actually do
- Lack of trust. Trust is crucial to teamwork, and it starts with people knowing each other
- Seek out adversity. Struggle builds character
- To deal with successfully prevail over, surmount tried to overcome the obstacles of poverty. To overpower, as with emotion, affect deeply was overcome with grief.



# CHAPTER 3

## Requirement Specification

### 3.1 Business Process Modeling

The business process model is relationship a customer site and shopping site. Customer site only can order submitted But shopping site manage and check all order process.

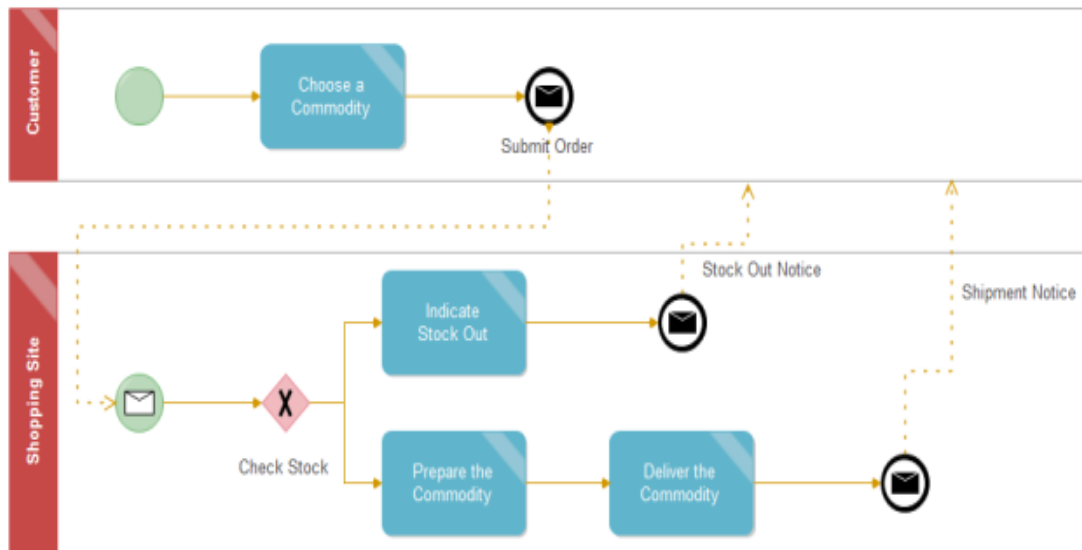


Figure 3.1 : Business Process Model

Figure 3.2 Shows this figure how can submit order, Confirm gateway SMS reply, Stock Out notice and after all Check Stock.

### 3.2 Requirement Collection and Analysis

At the beginning of this project, I have identified the stakeholder for my project. Based on their functions, requirements can be classified into. Functional requirements, which describe system functionalities or services; [1] Non-functional requirements, which define system properties and constraints [4]. The functional and non functional requirements can further be classified into few types and have relationship.

Some web site are feeling hesitated to choose their correct web platform to maintain the site for their office or company. This tool can help them to discover the new shopping platform.

### 3.3 Use Case Modeling and Description

Two main thing of Admin and Riders. This diagram Show how can User end to buy the product. User can view all stock products after she/he can login ,cart products and payment for buy.Admin manage of manage site add products and confirm order.Rider delivery food to customer from shop.

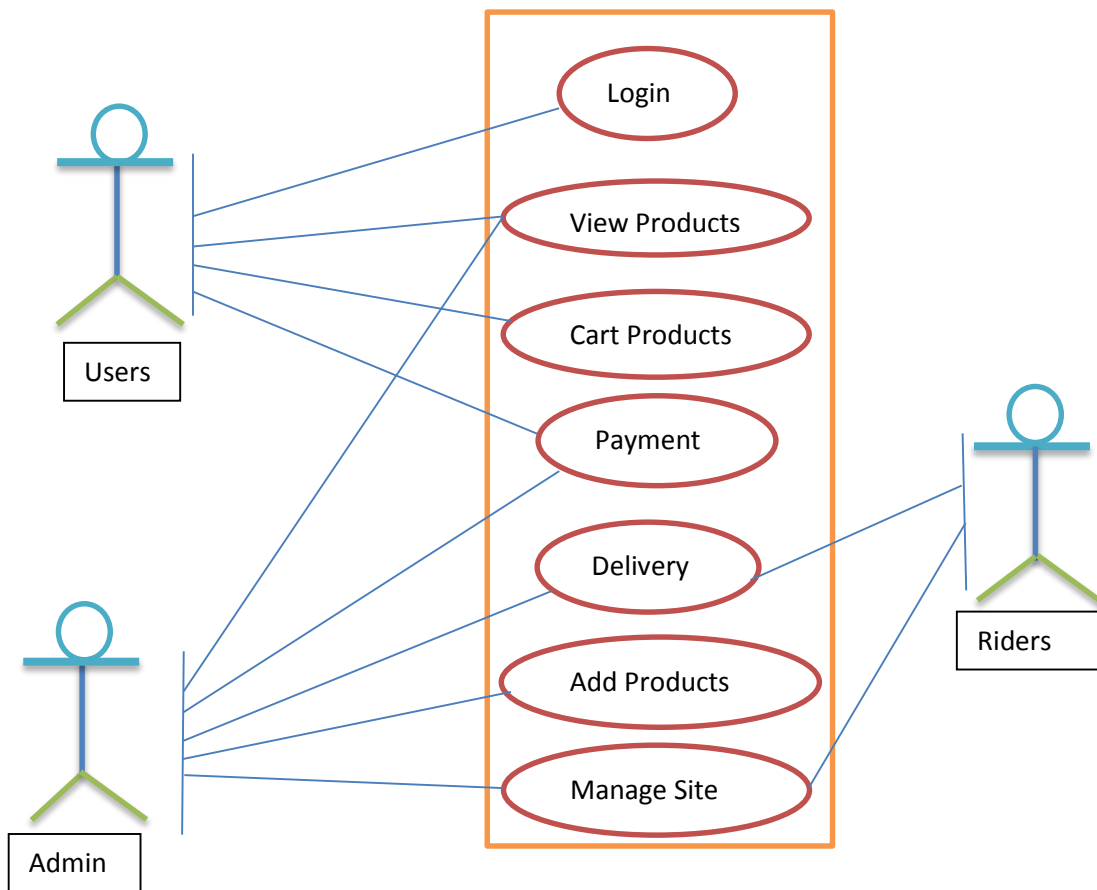


Figure 3.2 : Use Case Mode

Figure 3.2 Shows the use case diagram of the system provided in the project. There are three types of actor in the application one is Admin and another is User and Rider. Both Users and Admin can post online and publish content on web.

### 3.4 Logical Data Model

Logical Data Model is the process of data analysis used as a preliminary steps of software development. Data logical model of thing how can create a process for food and products stock storage technology but in terms of data structures. when you create relation object-Oriented class of XML tag[5].

#### 3.4.1 Data Flow Diagram

A data flow diagram is a graphical representation of the "flow" of data through an information system, modelling its process aspects. Its flow data User to Shopping site manage then relation Products.

#### Context Level Diagram

This the diagram of thing entity process system of user and web site pages relationship for purchase.

##### First Level DFD:

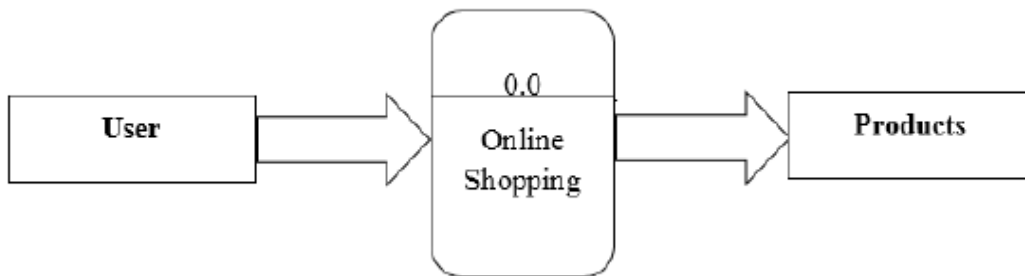


Figure 3.3 First Level Diagram

Figure 3.3 Shows the first level Diagram where we need to data flow diagram used for customer behavior.

### Second Level DFD:

Second Level DFD is view of working process a customer site. View all pages and choice products only order. Then customer select payment gateway process. Now this time only Cash available to starting site.

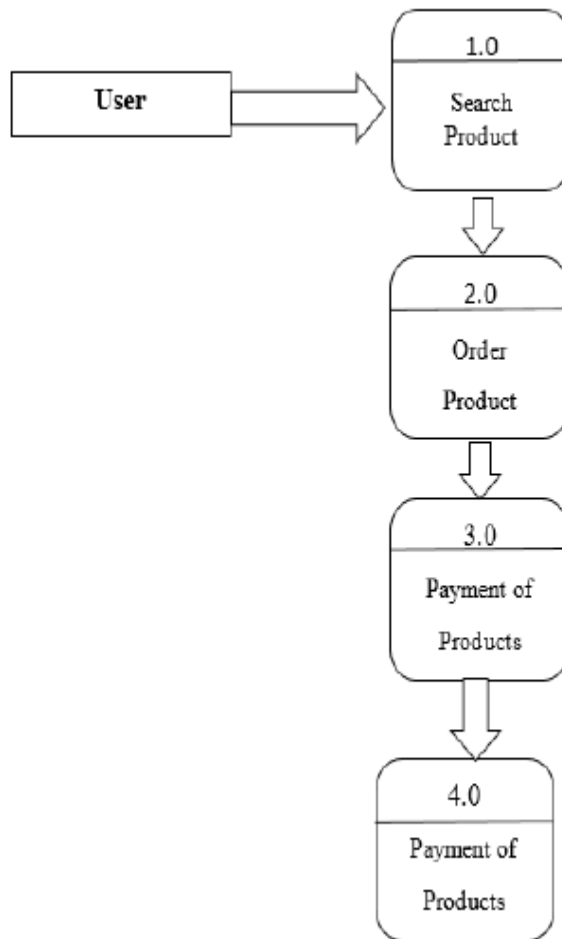


Figure 3.4: Second Level Diagram

Figure 3.3 Shows the Second level Diagram where we need to data flow diagram used for customer all activity.

### 3.4.2 ER Diagram

ER diagram is The model of entity relationship describes thing User, Order , Products. Specific domain of knowledge[7]. How can composed of entity and specifies relation strongly security can exist between of those entity types.

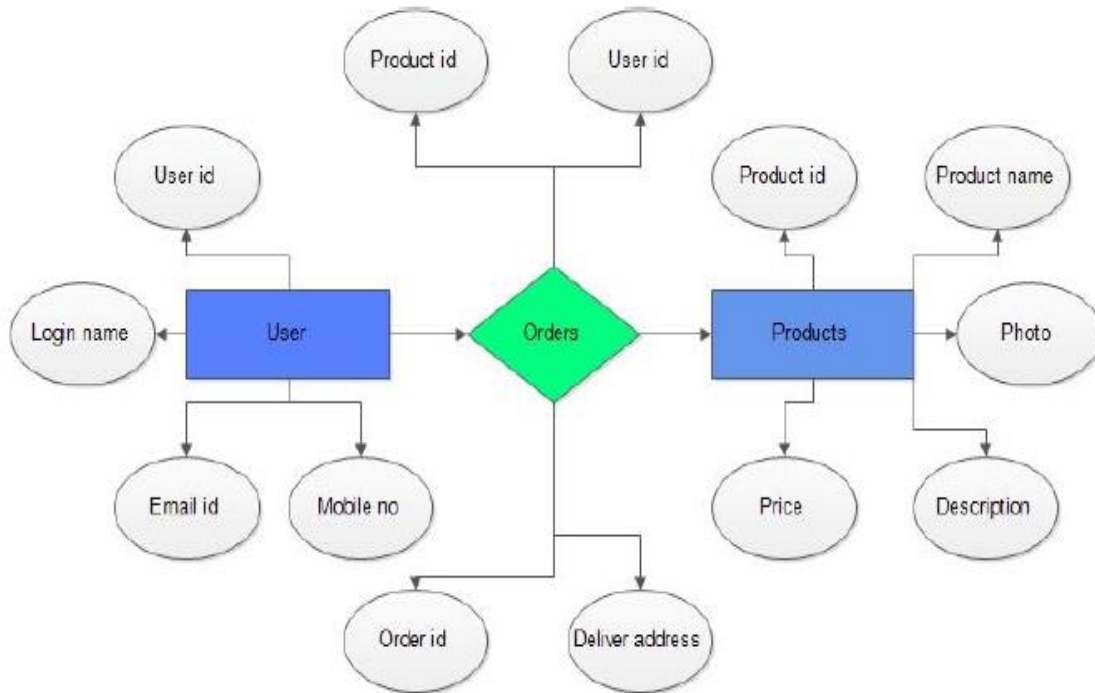


Figure 3.5: ER Diagram

Figure 3.5 Shows the ER Diagram for all information store formation to database. Its the most important part of SDLC[5].

### **3.5 Design Requirements**

The system will be used by the 2 types of user. One is Super Admin and other is Admin or User.

- Super admin will create a admin account for a user.
- Admin and user can post and maintain the site both at a time in one platform.
- System admin will setup basic setting and tools management.
- System admin will develop the site user experience and most of the cases.
- Admin will authorize the user post, and other management.

## **CHAPTER 4**

### **Design Specification**

#### **4.1 Front-end Design**

Front-end web development is the practice of converting data to graphical interface for Structure content view and interact with data through digital interaction using HTML, CSS and JavaScript.

##### **4.1.1 HTML**

HTML use for create a web page layout of structure.HTML also basic level of Web Development . Its Technological for world wide web.Why used HTML in my project.

- View the HTML Page in Your Browser.
- HTML is that it is easy to code.
- Content of Web pages.
- Cost effective.

##### **4.1.2 CSS**

CSS is used to define styles for your web pages, including the design, layout and variations in display for different devices and screen sizes. It combines the document's content with its style. The browser displays the contents of the DOM[5].

- CSS saves a lot of work.
- It can control the layout of multiple web pages all at once.
- HTML page displayed with four different screen.

##### **4.1.3 JavaScript**

JavaScript is a high level language for programming.its used for contribution of behavior of web pages.Its mostly Secure for manage site and security purpose.

- Highly responsive interfaces.
- Defensive scripting.

- Dynamic and interactive experience for the user.

## **4.2 Back-end Design**

Back-end Development is a highly handle of this server site or manage site. Back-end design for manufacture of the web site and develop more then update. PHP is the best Back-end development server Scripting language.

### **4.2.1 PHP**

PHP is the most powerful Server Scripting language .its used for backend design and development for Web Application. PHP open source programming and task to generate dynamic web pages.

- It's an open source.
- Server-side scripting language.
- Development of web applications.
- Generate dynamic page content.
- It is a light weight language.

### **4.2.2 MySQL**

My SQL is the server site manage powerful database. Its called store room. If we need a space for create a table for data flowing mysql of the better thing .

- It is a stable
- Reliable and the powerful
- Open source database
- Data Security.
- Data Integrity
- Low Bandwidth.



### **4.3 Interaction Design and UX**

Interaction design one of entity thing of web base Project . when a Design of page interactive and user friendly customer view this site more then. All kind of people use more easlly. So I can hope Rannaghara is the most accretive process of growth earning per share.

### **4.4 Implementation Requirements**

To implement this application on anyone's system he/she will have complete server system on machine.

- PHP : Need PHP 7 for Highly security.
- Framework : After used laravel & wordpress.
- Web Server : Caddy and apache tomcat.
- SQL : SQLite3 database and its browser.

## **CHAPTER 5**

### **Implementation and Testing**

#### **5.1 Implementation of Database**

XAMPP is a free distribution package that makes it easy to install Apache Web Server, PHP and MySQL. you should turn off any other web servers and instances of MySQL you have running on your Windows machine. It's the very easy to access all time.

you've identified access applicable to their requirements. According to the role of users, DBMA[5] will assign the permission for tables individually (if needed). DBMS system follows sequential process to handle a BD request. Process demonstrated bellow.

- Download and Install XAMPP for PHP 5.X for Windows- Be sure to select the proper version of PHP as there are many choices.
- Allow the program to make changes to your machine.
- When use first time of server access to MYSQL you make sure to installation tutorial
- There you will see a column of "Start" buttons. Select the ones for MySQL and for Apache. you should now see a green "Running" indicator

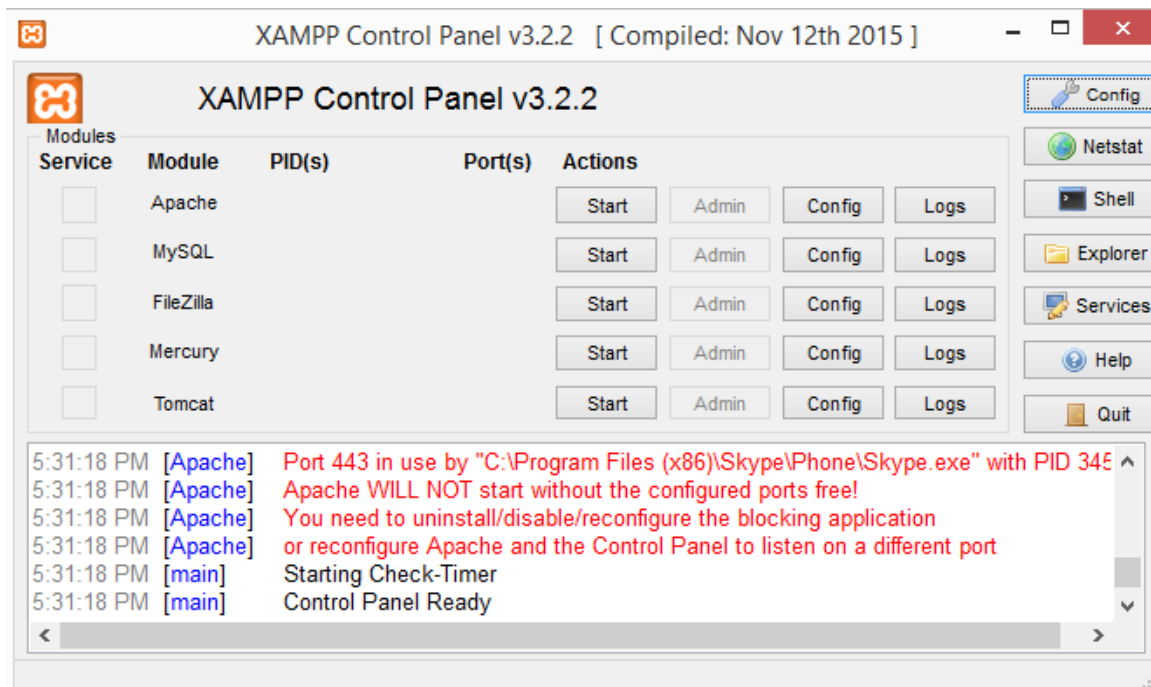


Figure 5.6: Database & server control Panel

Figure 5.6 Shows the server control panel. its need to DBMS[10] system follows sequential process to handle a BD request. Process demonstrated bellow.

## 5.2 Implementation of Front-end Design

Front-end design is the practice of converting data to graphical interface for user to view and interact with data through digital interaction using HTML, CSS and JavaScript. Now this time we easy use framework for front-end design. its reduces our time complexity and more responsive.

### 5.2.1 Home page

Every home page representative index page of site. View all Category type of food and products. Title of the manage site with logo. Customer moveing any pages at the time supported view gallery.

- Home pages is the index of site and representative total Category.

- Login part representative signup option and login
- Home pages every products always popular and most view products.
- Search engine indexing is the process of a search engine collecting
- Riders: Top of the footer apply rannghara rider team.

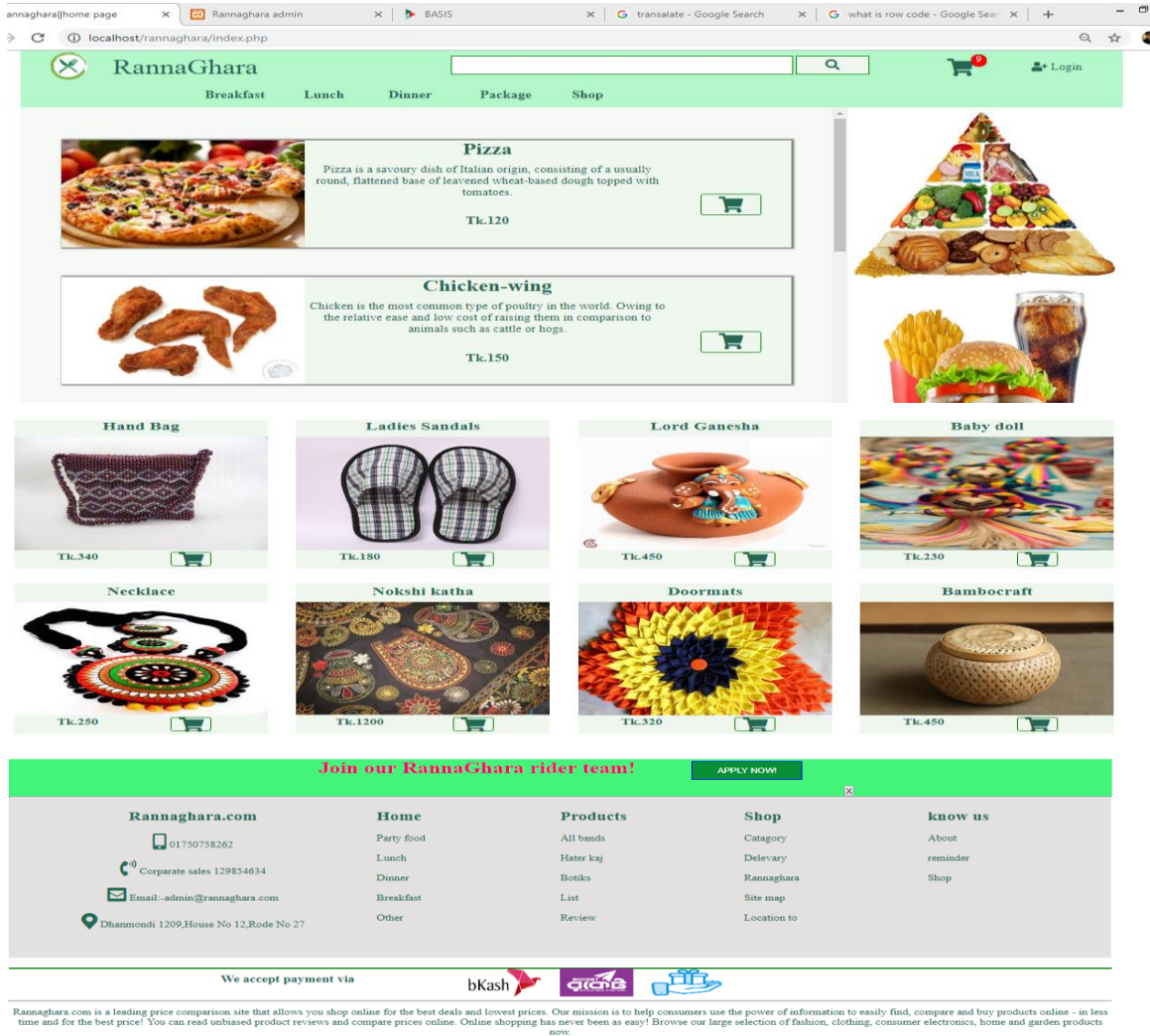


Figure: 5.7 Home page

Figure 5.7 Shows the home page of the project. The home page is located in the root directory of a website. popular food and most view products show this page.

## 5.2.2 Add to Cart Page

A cart page is an essential part of an ecommerce website. This page customer view food description, photo ,price. Actually you can add to cart to products this page.

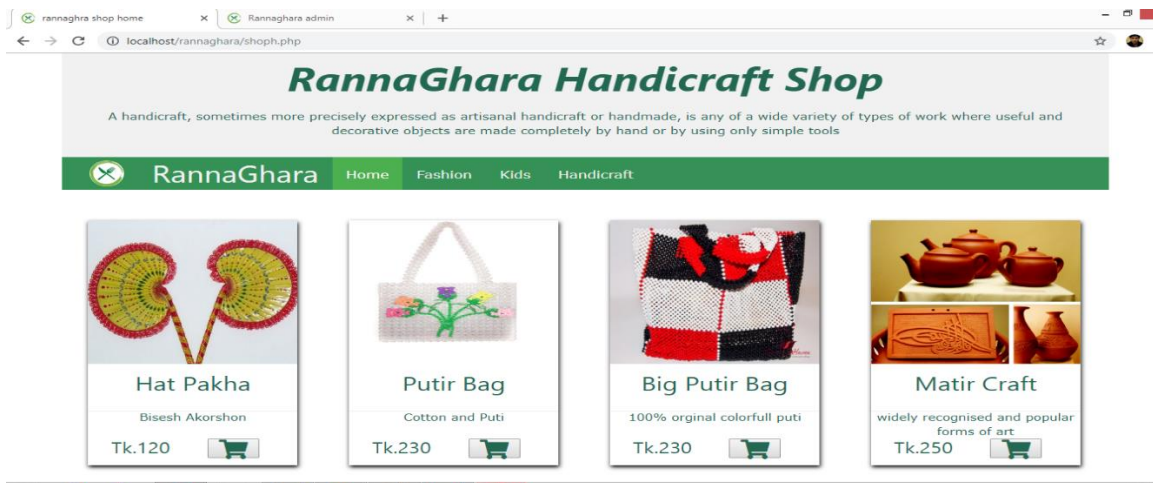
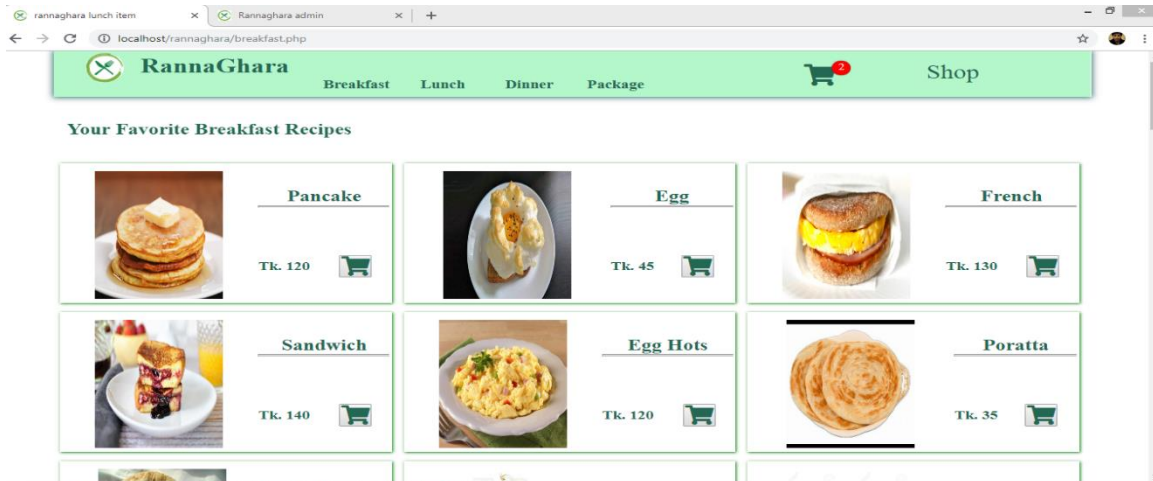


Figure: 5.8 Add to cart

Figure 5.8 Shows the pages of the shop. Show this products Category, description of products, price and add to cart button. you can cart this product to shipping.

### 5.2.3 Cart Product before check out

The page of Check Summary example subtotal. Shipping , with include VAT. After all you can update this cart products summary list and increasing Quantity and Action for delete.

The screenshot displays the RannaGhara website interface. At the top, there is a navigation bar with the logo, menu items (Breakfast, Lunch, Dinner, Package, Shop), a search bar, a shopping cart icon with a '9' notification, and a 'Login' button. Below the navigation bar, the main content area is divided into two sections. On the left, 'My Cart (9 Items)' shows a total of 995 Tk. It contains a table with columns for Name, Price, Quantity, and Delete. The items listed are Necklace (100 Tk, quantity 2), Milk (130 Tk, quantity 2), Egg (45 Tk, quantity 1), French (130 Tk, quantity 3), and Bread/Cake (100 Tk, quantity 1). Each item has a 'Delete' button and quantity controls. A 'Continue to Order' button is located below the cart items. On the right, the 'Checkout Summary' section shows 'Payment Details' with a Subtotal of 995 TK, Shipping of 100 TK, VAT of 20 TK, and a Payable Total of 1115 TK.

Name	Price	Quantity	Delete
Necklace	100 Tk.	- 2 +	Delete
Milk	130 Tk.	- 2 +	Delete
Egg	45 Tk.	- 1 +	Delete
French	130 Tk.	- 3 +	Delete
Bread/Cake	100 Tk.	- 1 +	Delete

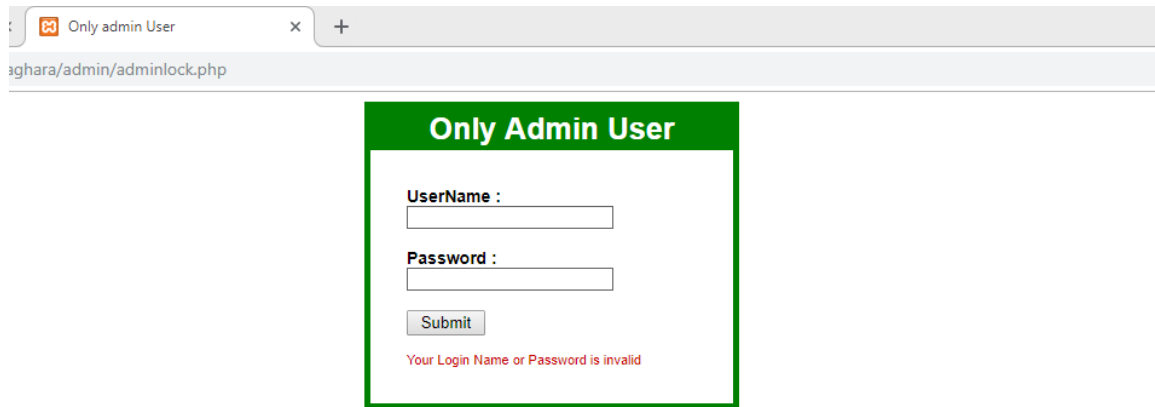
Payment Details	
Subtotal	995 TK
Shipping	100 TK.
VAT	20 TK.
Payable Total	1115 TK

Figure: 5.9 Cart Product before check out

Figure 5.9 Shows the check out all cart products. you can update products, delete products and quantity increase or decrease. then show payment details and continue to order.

## 5.2.4 Admin Login Page

Admin part is so important part of the system. Admin only can access this panel. Valid Username and password only open admin panel others site. Nobody access any page of admin panel without login successfully.



The image shows a web browser window with a single tab titled "Only admin User". The address bar displays "ghara/admin/adminlock.php". The main content area features a green-bordered box with a green header that reads "Only Admin User". Inside this box, there is a login form with the following elements:

- A label "UserName :" followed by a text input field.
- A label "Password :" followed by a text input field.
- A "Submit" button.
- A red error message below the form: "Your Login Name or Password is invalid".

Figure: 5.10 Admin Login Page

Figure: 5.10 Shows the admin login panel. Only valid name and password can be access all pages. Its create admin security lock for highly secure.

## 5.2.5 Dashboard

Dashboard is the home of admin panel.its shows category of panel. All table content with add products form. The whole point of the web-based dashboard is that it lets you visualize the Key Performance Indicators and other strategic data for your organization at a glance. It is the dashboard tool that presents management with the information for the practical end of the organization.

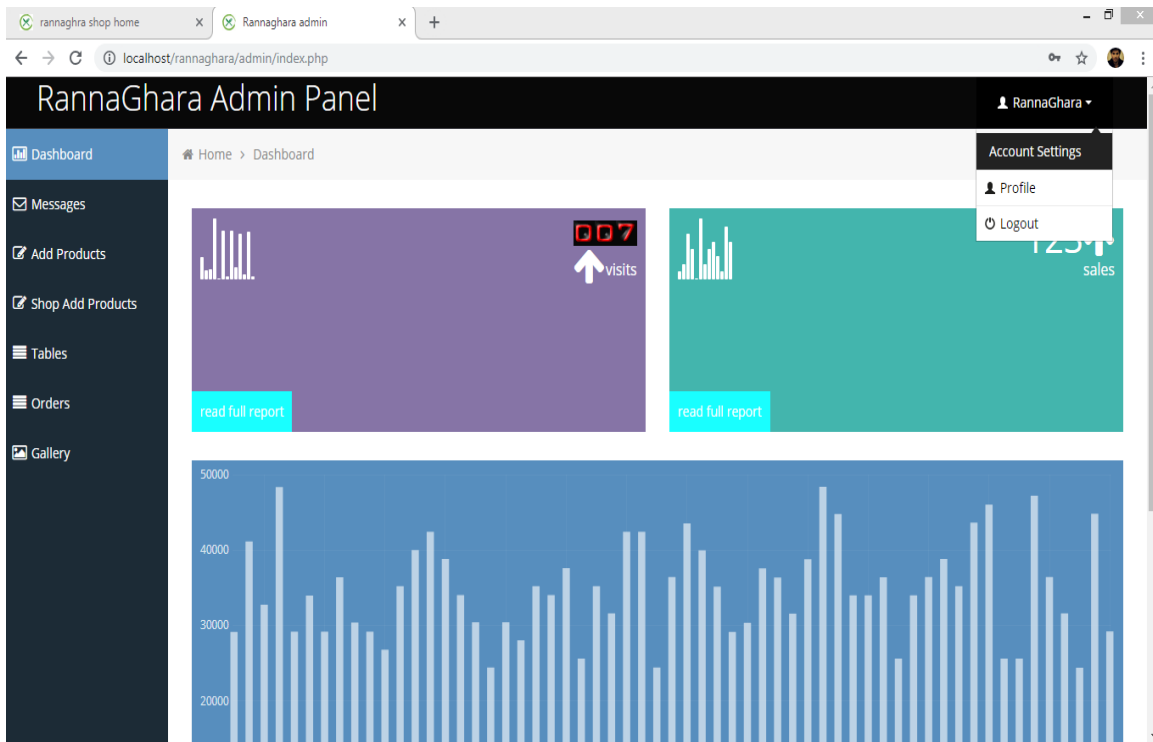


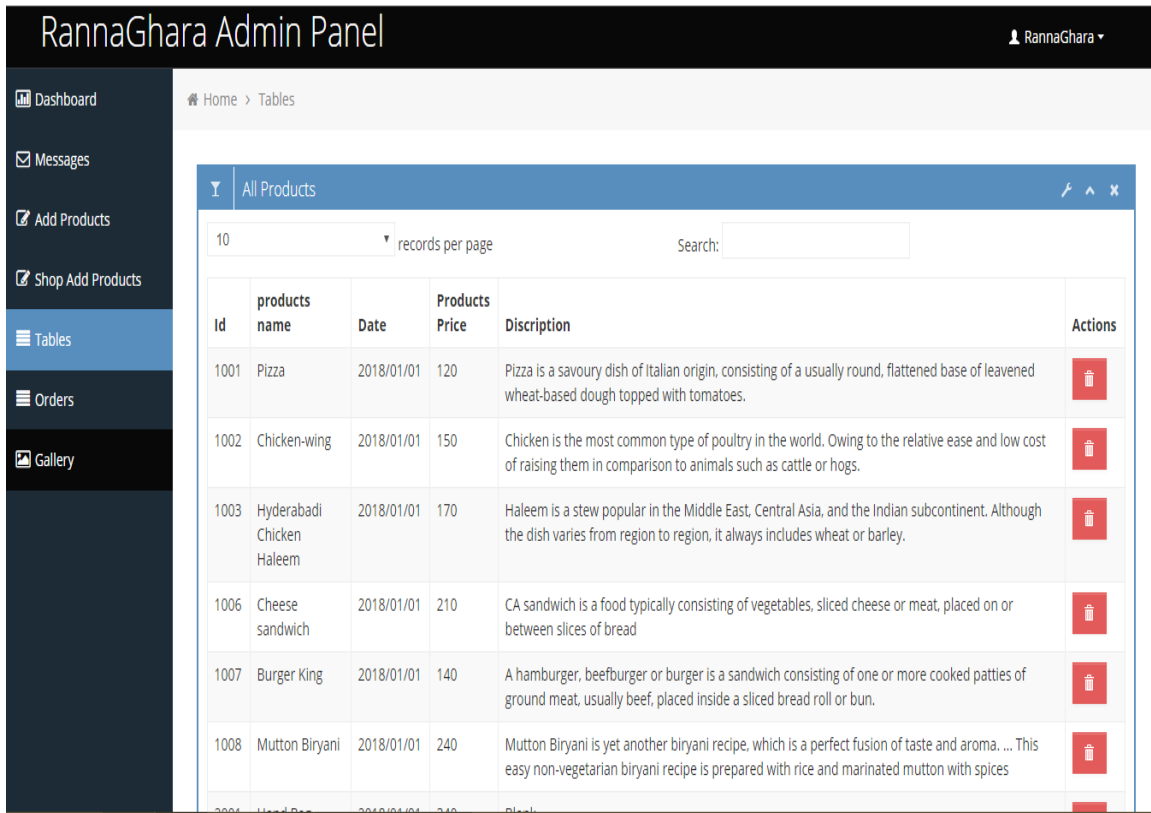
Figure: 5.11 Dashboard

Figure:5.11 Shows the admin panel home page. show all activity of admin panel. Dashboard show all visitor, total sales and transaction summary. logout option included this feature.



## 5.2.6 Manage Category

Manage Category one of record box of this site. Its manage category of product table. If you can search a product id, description and every details for search. So Manage Category table must be include a Shopping site.



The screenshot shows the RannaGhara Admin Panel interface. The top navigation bar includes 'RannaGhara Admin Panel' and a user profile 'RannaGhara'. The left sidebar contains navigation options: Dashboard, Messages, Add Products, Shop Add Products, Tables (selected), Orders, and Gallery. The main content area displays the 'All Products' table with the following data:

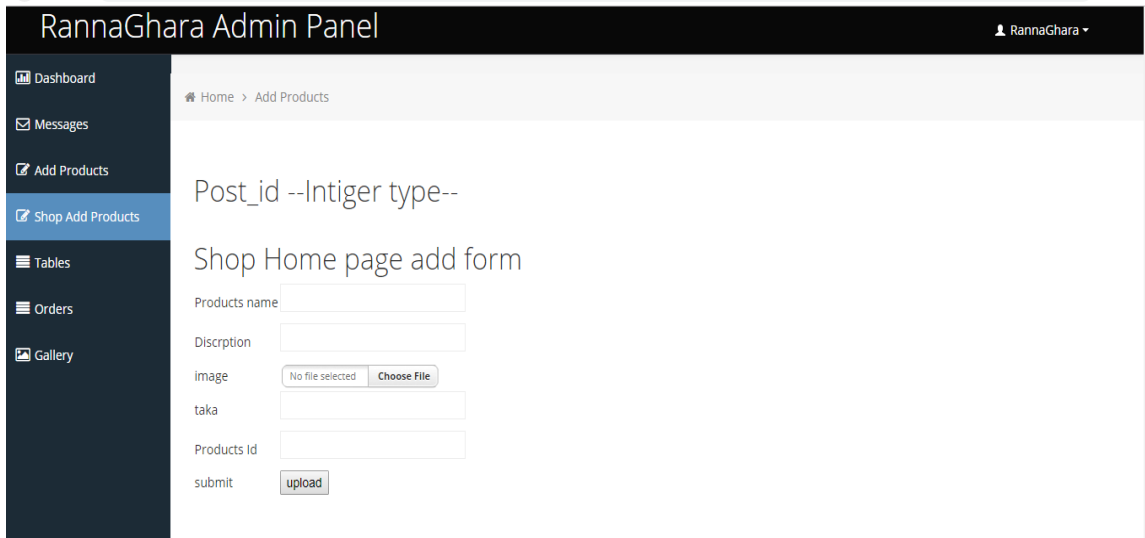
Id	products name	Date	Products Price	Discription	Actions
1001	Pizza	2018/01/01	120	Pizza is a savoury dish of Italian origin, consisting of a usually round, flattened base of leavened wheat-based dough topped with tomatoes.	
1002	Chicken-wing	2018/01/01	150	Chicken is the most common type of poultry in the world. Owing to the relative ease and low cost of raising them in comparison to animals such as cattle or hogs.	
1003	Hyderabadi Chicken Haleem	2018/01/01	170	Haleem is a stew popular in the Middle East, Central Asia, and the Indian subcontinent. Although the dish varies from region to region, it always includes wheat or barley.	
1006	Cheese sandwich	2018/01/01	210	CA sandwich is a food typically consisting of vegetables, sliced cheese or meat, placed on or between slices of bread	
1007	Burger King	2018/01/01	140	A hamburger, beefburger or burger is a sandwich consisting of one or more cooked patties of ground meat, usually beef, placed inside a sliced bread roll or bun.	
1008	Mutton Biryani	2018/01/01	240	Mutton Biryani is yet another biryani recipe, which is a perfect fusion of taste and aroma. ... This easy non-vegetarian biryani recipe is prepared with rice and marinated mutton with spices	

Figure: 5.12 Manage Category

Figure:5.12 Shows the admin panel manage category. admin show all available products, products id, name, description, price and action for delete and update.

## 5.2.7 Add Manufacturer

This the Section of input form for stock table data. When a admin add new products this site she/he can used same process to add manufacturer. Its so easy and simple process for any kind of admin.



The screenshot displays the 'RannaGhara Admin Panel' interface. On the left is a dark sidebar with navigation options: Dashboard, Messages, Add Products, Shop Add Products (highlighted), Tables, Orders, and Gallery. The main content area shows a breadcrumb trail 'Home > Add Products' and a form titled 'Shop Home page add form'. The form includes a 'Post\_id --Intiger type--' label, a 'Products name' text input, a 'Discription' text input, an 'image' field with a 'No file selected' status and a 'Choose File' button, a 'taka' text input, a 'Products Id' text input, and an 'upload' button.

Figure: 5.13 Add Manufacturer

Figure:5.13 Shows the all add products form. this system Manufacturer only admin panel.

## 5.3 Implementation of Interactions

Into rannghara site I have implemented interactive UI for easy and better user experience. many cases I have used interactive icon rather than text . The admin will add different types of post, pages, and content upload on application add, edit, delete, & update user, database and browse database. Every database can be created with multiple rules and different kinds of values.

All the work is done very easily and the interaction between system and this application is very fast. All the functionalities is comfortable for an admin to handle the all category of management system.

## **5.4 Testing Implementation**

Implementation testing generally refers to the process of testing implementations of technology specifications. This process is the technical method of test software requirement .If you failed this implementation can not develop anothers feature add.

### **5.4.1 Black Box Testing**

Black-Box Testing is the process of check software bug and total outcome of compare expected outcome.Enitially check this process and successfully result and a better outcome this site manage.

- Behavioral Testing,
- Software testing method

### **5.4.2 White Box Testing**

White Box Testing is the finally testing process of a software. At first complete black box testing then finally check white testing for client and user requirement process.Finally result better then balck box testing method.

## **5.5 Test Results and Reports**

Test result is the measure of accuracy web base project report.only 10% of accuracy compare expected outcome and actual outcome.Finally create good report for this site after all thing of test implementation process.

## CHAPTER 6

### Conclusion and Future Scope

#### 6.1 Discussion and Conclusion

Online shopping is the process whereby consumers directly buy goods or services from a seller in real-time, without an intermediary service, over the Internet. It is a form of electronic commerce. The process is called Business-to-Consumer online shopping. Retailers do not always offer the same deals in brick-and-mortar stores as at their online stores because the costs of running a physical establishment are considerably greater than for an online store.

There are many advantages of shopping online some include, there is a lot more choice for example if there is an item you want a lot more shops online Conclusion Related AS and A Level Information Systems and Communication essays. Shopping online is one of the greatest aspect of the internet today. In conclusion, shopping online have more benefits for people, it help.

#### 6.2 Scope for Further Developments

If its limitation can be solved then it would be more effective. In future we will try to develop our project so that we able to give these facilities and credit card validation is not done. The administrator of the website can be given more functionality, looking specific customer generate invoice from admin panel of customer till present for taking decision. Adding SMS gateway to confirm that customer order.

Successfully submitted, and also the current stats of order that means any state change of order customer will get a notification.

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## Appendix

**Table No. 1: tbl\_admin**

**Purpose: To store admin Information**

Field Name	Type	Length	Null	Default
username	varchar	200	Not	None
Password	varchar	50	Not	None
id	int	10	Not	None

**Table No. 2: tbl\_product**

**Purpose: To store Information of product**

Field Name	Type	Length	Null	Default
id	int	10	Not	None
Post_id	int	50	Not	None
title	varchar	100	Not	None
description	varchar	500	Not	None
image	varchar	500	Not	None
price	int	10	Not	None

**Table No. 3: tbl\_customer****Purpose: To store customer**

Field Name	Type	Length	Null	Default
id	int	10	Not	None
Name	Varchar	200	Not	None
Email	Email	50	Not	None
Phone	Int	15	Not	None
Address	Varchar	500	Not	None
psw	varchar	50	Not	None

**Table No. 4: tbl\_shipping****Purpose: To store shipping details**

Field Name	Type	Length	Null	Default
Name	Varchar	50	Not	None
Phone	Int	15	Not	None
Alternative phone	Int	15	Not	None
Division	Varchar	50	Not	None
Area	Varchar	50	Not	None
Rode	Varchar	50	Not	None
House	Varchar	50	Not	None
Email	Email	50	Not	None
Date	Varchar	50	Not	None
Comment	Varchar	500	Not	None