

VIRTUAL SHOPPING
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This Report Displayed in halfway Fulfillment of the necessities for the Degree of
Bachelor of Science in Computer Science and Engineering

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APPROVAL

This Project titled “**Virtual Shopping**” submitted by **Kazi Ahosun Habib, Saiful Islam and Md Saddam Hossain** 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 2nd September of 2017.

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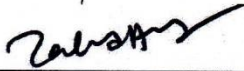


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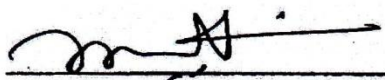


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We hereby declare that, this project has been done by us under the supervision of **Abdullah Al Mamun, Senior Lecturer, Department of CSE, Daffodil International University**. We also declare that neither this project nor any part of this project has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

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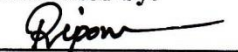
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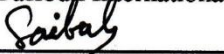


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ABSTRACT

As the name specifies, **“Virtual Shopping Management System”** is not the system for managing the e-commerce business, and various activities in the E-Commerce. After successful login, the customer can access the products items list according to the reliable products. The main point of developing this project is to help the administrator manage the e-commerce business and assist customer with online ordering and getting their products in-home delivery system.

In the proposed system, users can search for products according to their choice as customer. They will order while viewing all the information about products like size, color, price etc.

These projects are developing because of initially; we started an e-commerce website where, we are already selling the famous products of 64 districts in Bangladesh. As we saw while doing our business, we find a lot of e-commerce websites in our country, but most of them are not user-friendly and doesn't provide pure products. On the other way, their delivery system

We had a lot of problems at the beginning of the project. However, with the valuable advice of our supervisor, Abdullah Al-Mamun, we are able to overcome these problems. So, we hope that this project will be of great use to us in the future and that customers will find the products of their choice on this site.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

Virtual Shopping Management System (VSMS) is a web application. This system is developed to automate day to day activity of an e-commerce business. A virtual system is a kind of business that servers worldwide famous Bangladeshi products. This system is developed to provide services facilities to e-commerce vendors and customers. This “Virtual shopping” can use employees, vendors and customers. Customer can easily view the products list and view details about the product’s size, color, price, quality, expiration time and data of original inventor of the products. On the other hand, vendors can get information about products situation, status, sales funnel reports, booking reports, fake orders and information about customer details. Mainly we focus on customer satisfactory with the quality and purity of our products as others are providing retailing from other company’s products. In these areas, we firmly recognize ourselves delivering our faith and believable merchantmen as like framers, producers.

The main objective of our project is to generate good communication between Seller and Customer. Contact can be physical or virtual, and it depends on the interest of the Customer and Seller; other objective is as follows.

1.2 Motivation

Bangladesh is a developing country. This creating website system is easy to understand. The science we accept the projects seems new and adventure in some aspects. As a result, we are finding the products of our producer like the popular of rice of Dinajpur, Litchi and Katarivog Chira. Other products like the Mango of Rajshahi and Honey of Sundorbon. Pure master oil of our own firm master etc. It is easy to learn and create projects like ours to develop. It’s a technology-based projects, so in these circumstances, we are building it by HTML5, CSS3, Bootstrap, JavaScript, JQuery, Ajax, WordPress framework, PHP and MySQL.

1.3 Objectives

The object of these projects is to handle the entire activity. The software keeps tracking information about the visitor, sells, products, employees and delivery reports with financial benefits of the

vendor. This system contains a complete database where all information will store safely. The system will take less than time to enter data and get the result of display output. Less recourse will be used to no larger registers, files, ledgers, or pens. Correctors will be needed or used. After the system will be computerized, only the admin can change the information about whole storage database. Every moment data will be stored and updated frequently by the admin. Also, customer data will be stored every moment. The owner will locate the entire process of purchasing products and customer registration except for the customer card pin code and the amount of money on the card. The purchasing process of by card is monitored by three-way of acknowledgement of the bank of customer, vendor and the website system method. As there is a security issue with money, it's needed to handle carefully unless the transaction pose machine creates any occurrences. Customer can only purchase products after registering information about them identically rights of making fake knowledge by providing a one-off verified, certified card. Admin can change any information any time except customer order list. This system is much easier for vendors, customers, employees and the delivery related person.

1.4 Expected outcome

Online Virtual shopping management system will develop to help administrators manage vendor and customer online ordering and payment with delivery. Initially, the employee has to log in according to his designation; the privileges are set. Other than that, this project will update by manual edited system. If the employee is order taking person and delivery man, he has to indicate which customers he is serving at that moment.

PHP is a server side scripting language designed for web development and used as a general-purpose programming language. In our project, PHP is the world's second most widely used relational database management system (RDBMS) and the most commonly used open-source RDBMS.

MySQL is a popular choice of database for use in web application.

In other work like designing the web page, we have used the HTML5, CSS3, BOOTSTRAP, JAVASCRIPT and AJAX also. We do RAW PHP with WORDPRESS layout.

1.5 Report Layout

Chapter 1: Introduction

In this chapter, we have discussed the motivation, objectives and the expected outcome of the project and later followed by the report layout.

Chapter 2: Background

We discuss the background circumstances of our project. We also talk about the related work, compared to other candidate systems, the scope of the problem and challenges of the project.

Chapter 3: Requirement Specification

This chapter is all about the prerequisite like a business process modeling, requirement collection and an analysis, the use-case model of the project and its description, and the logical relational database model and the design requirements.

Chapter 4: Design Specification

In this chapter, all the designs of the project. Front-end design, back-end design, interaction design and UX and the implementation requirements.

Chapter 5: Implementation and Testing

This chapter contains the implementation of the database, front-end designs, interactions and the test results of the project.

Chapter 6: Conclusion and Future Scope

We discussed the conclusion and the scope for further developments derived from the project.

CHAPTER 2

BACKGROUND ANALYSIS

2.1 Introduction

This chapter tries to give an overall idea about “**Virtual Shopping**”. Here we have discussed the Virtual Shopping Management System.

Shopping provides budget-oriented, sociable accommodation where customers can purchase any products, usually cloth, food, and all kind of necessary accessories. Products can be purchased single or multiple, although it can only want to view its possible too.

Products are generally cheaper for both the vendor and the customers; Customers can purchase very quickly in a few minutes doing some process online while shopping website have long-term services provided grantees for whom want to buy from our shop with delivery free fast time ordering, while there is a system to exchanging products if customer doesn't like it for free accommodation [1].

2.2 Related Work

2.2.1 Chaldal.com is web-based software system designed for selling products in online. This website mainly used for their resellers products. This website is used for selling products by purchasing products from merchant.

Chaldal.com is an online shop in Dhaka, Bangladesh. We believe the time is valuable to our fellow Dhaka residents and that they should not have to waste hours in traffic, brave bad weather and wait in line just to buy basic necessities like eggs! This is why Chaldal delivers everything you need right at your doorstep and at no additional cost.

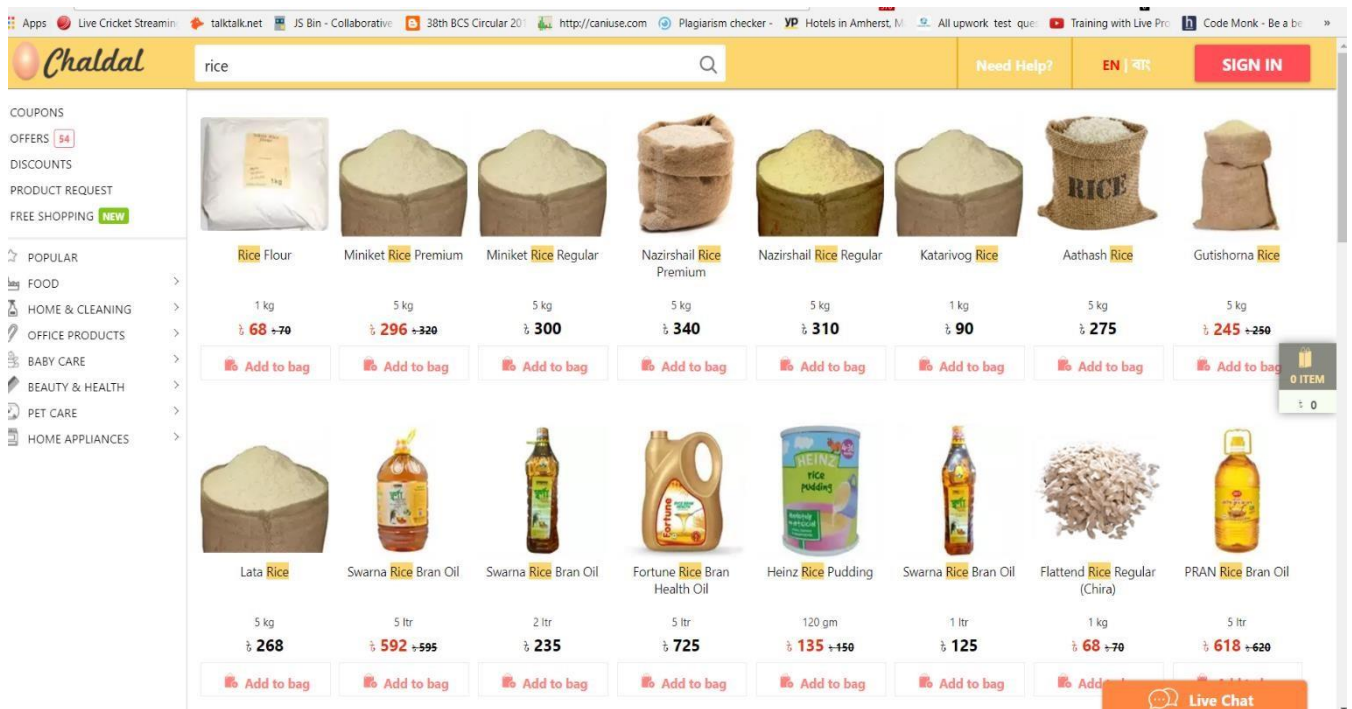


Figure 2.2.1: Related Work

2.2.2 Coxsbazarshop.com is a web software and that designed to sell products in online. This website mainly used for their resellers products. This website is used for selling products by purchasing products from merchant.

Their team of dynamic and dedicated professionals are committed to providing superior and

Delivered quality products/gifts items/ladies screen care Burmese herbal cosmetics and Seafood.

Committed to providing superior and delivered quality Product/Gift Items, Ladies Skincare Burmese Herbal Cosmetics & Seafood.

100% Pure Burmese various Beverage Food Products like Pickle/Nuts/Coffee/Chocolate & many more items based on customer needs.

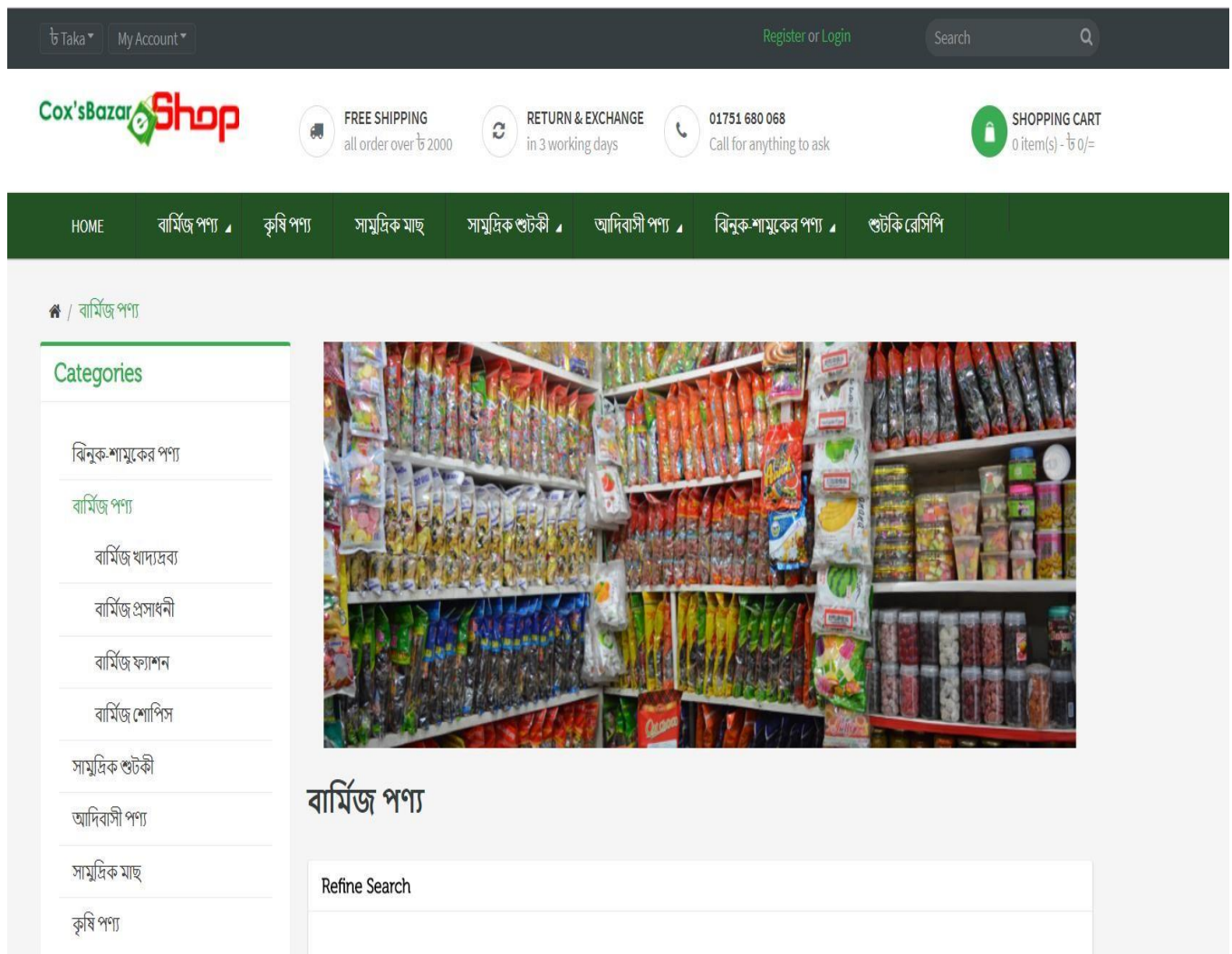


Figure 2.2.2: Related Work

2.3 Comparative studies

A System request must pass several tests called a feasibility study. To see whether it's worthwhile to proceed further. Sometimes a feasibility study is quite simple and can be done in a few hours. If the request involves a new system or a significant change, however, extensive fact-finding and investigation is needed.

Our implemented software is different from the existing software. Students can post assignments in a group and can view all others assignments too. There are no privacy levels when it comes to the views and discussions about their own and all other classmates. We have a unique feature of questions and answers segment for each assignment. The teacher can define their thinking levels using Lee's Model Thinking Levels.

2.4 Scope of the Problems

There are so many problems created when we worked with CSS. Sometimes created problem with position of div and responsive design. It's easy to say but challenging work as we are doing it with OOP and PHP. Only the person knows who develop this kind of web development projects. Web site layout should always eye-catching and responsive, the mandatory user is friendly.

Clients always encounter issues with their website design, and developer corrects them. Sometimes the problems are probably their web hosting problem, as I found earlier.

Table 2.4.1: Time Scheduling Table

Analysis	1 Years
Design of Modules	6 Months
Coding	3 Months
Testing and Implementing	3 Months
Total	2 Years (Process is Still Running)

Figure 2.4.1: Time Scheduling Table

Our project aims to create global branding ourselves as we are trying to develop ourselves as Entrepreneurs. Also, provide quality and organic products.

2.5 Challenges

There were a few challenges of different types we faced, but at last, we successfully developed the software for the grace of Almighty “Allah”.

Most commonly, some error may be occurring:

1. Syntax Error
2. Fatal Error
3. Find out problem and solve that.
4. Time scheduling was difficult to maintain us as we are students. So far we have done it quite well.
5. Poor communication
6. Skills for the projects

CHAPTER 3

REQUIREMENT SPECIFICATION

3.1 Business Process Modeling

The customer registration module contains customer information such as personal information and other related information about customer. Then need to record all of the information in database. Customers are given with facility to changes their exciting password.

Business process modeling (BPM) in systems engineering represents the processes of an enterprise so that the current process may be analyzed or improved. BPM is typically performed by business analysts, who provide expertise in the modeling discipline; by subject matter experts, who have specialized knowledge of the processes being modeled; or, more commonly, by a team comprising both. The process model can be derived directly from events' logs using process mining tools [4]. Redesigning a process and implementing it is not a speedy enterprise. It can take months and occasionally years, depending on the extent of the process and sub-processes, how many people and systems are involved and how much of it needs to be redesigned. We used a UML Use Case Model as a business process model.

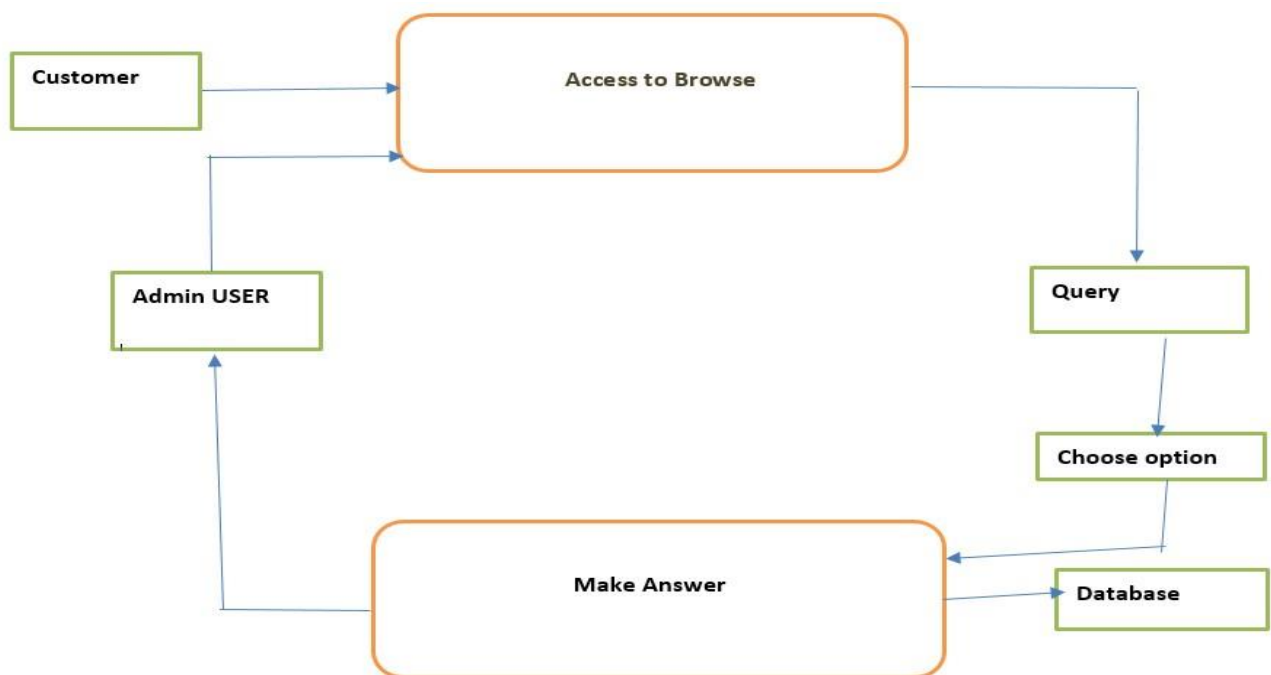


Figure 3.1.1: Feedback Process Model

3.2 Requirement Collection and Analysis

System analysis is a detailed study of the system's various operations and their relationship within the system and its outside environment. A key question may come that what must be done to solve the problem? Defining boundaries of the system and determining whether or not a candidate system should consider other related system. During analysis process, data collection, decision taking and handle the present system.

This chapter also provides a brief discussion of the scope and objective of the proposed system and requirement analysis. A brief view of technology those have been used for the implementation of the system. Also include the user part of the system in this chapter with their view of interaction.

3.2.1 Customer online ordering and purchasing module

The customer online ordering and purchasing module provides a form that needs to fulfil in item ordering and delivery time online.

3.2.2 Delivery Module

The delivery module contains delivery person information such as name, mobile number and picture.

3.2.3 Feedback Module

Based on products quality, services, quantity and price. Also, the delivery person's behavior. Customer can give feedback by commenting on our feedback form.

3.2.4 Product Module

The product module is to prepare for customers. Customers can view this detail and choose to order from here.

3.2.5 Generate Report Module

The system provides an option for generating a report. Report will be provided as bellow features:

1. Customer ordering and time of ordering.
2. Customer's details information.
3. Feedback or any suggestions of customer.
4. Profit of business or ongoing situation of business.
5. Delivery accepts time to customer.

3.3 Use Case Modeling and Description

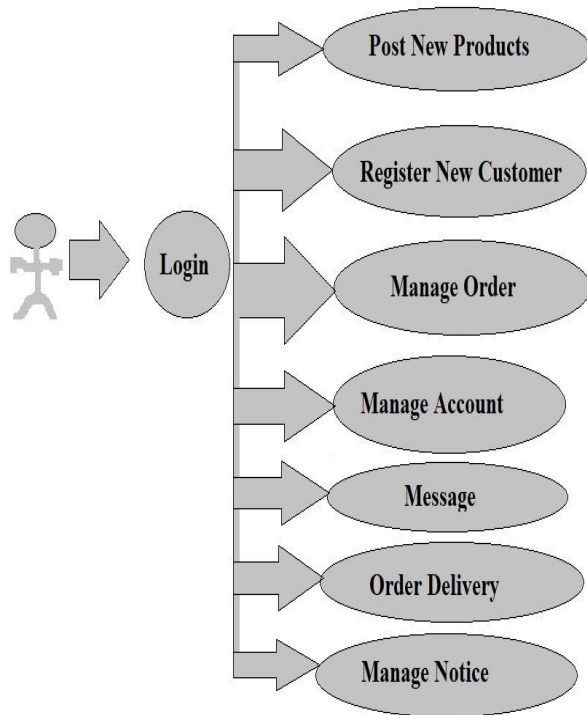
UML use case diagrams can describe the functionality of a system horizontally. Rather than merely representing the details of individual features of your system. These can be used fundamentally differently from sequence diagrams or flow charts because they do not attempt to describe the order or number of times that systems' actions and sub-action should be executed [2].

3.3.1 Use Case (Admin Part)

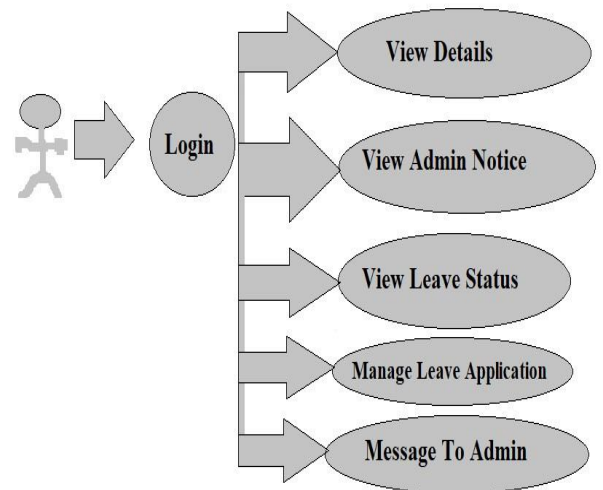
Admin is the central controller of the virtual management system. Admin has the authority to operate on the system. The admin would be able to access the system by using a user name and password. The admin login panel would be separated from the system models for the common users.

The admin panel would contain the following models:

1. Have a separate login window for customer.
2. Have a predefined user name and password.
3. Have an admin profile which contains all personal information of the admin.
4. Privilege to change user name and password from the admin profile.



Use Case Admin



Use Case Employee

Figure 3.3.1: Use Admin

Figure 3.3.2: Use case Employee

3.3.2 Use Case (Employee Part)

This level of user can only access where authorization is not necessary. This user can only take the customer purchasing order list and delivery list.

3.4 Logical Data Model

The logical data model is used to define and analyze requirements needed to support the business process within the scope of interconnected information systems in organizations. The Entity Relationship model or Entity Relationship diagram is a logical data models that includes the entity, attributes, tables and relationships.

In our system the users have to register. The customer has to register in the system requirement. The registration of the users would follow the following process.

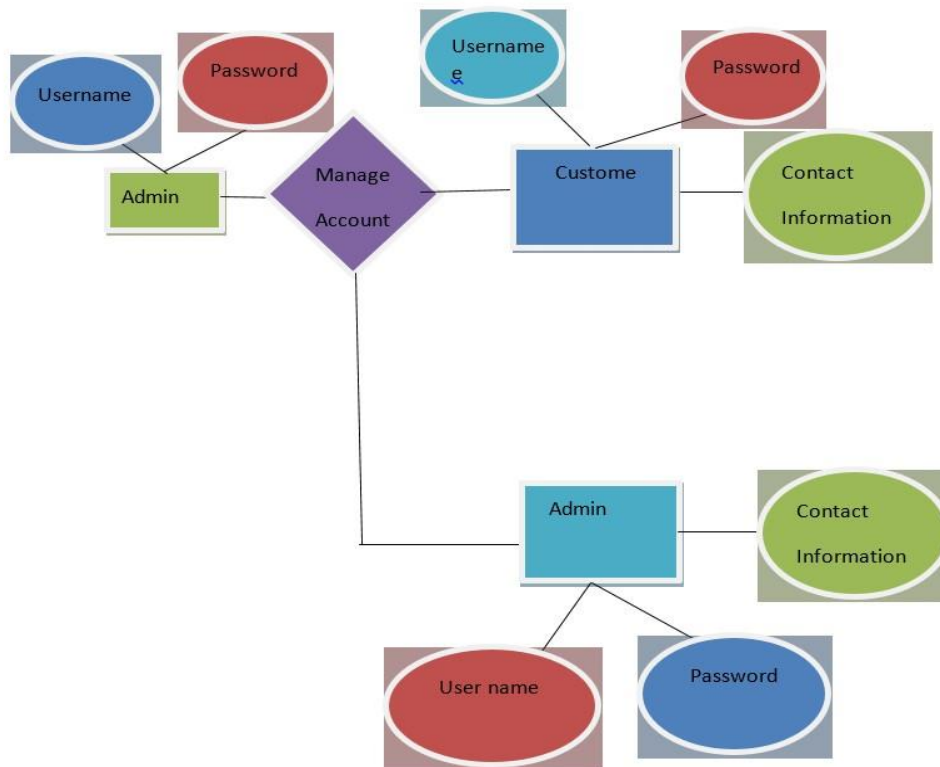


Figure 3.4.1: ERP-Diagram

3.4.1 Description of the Relation Diagram

In the model, the admin can take the total control, like he can add customers/products or delete them. He can generate new products arrival products sale. His id and password directly saved in the database.

For the customer, they can edit their order list and sell off promotion notice. Also can feedback about services.

3.5 Design Requirements

While developing our software we have kept in mind reaching our goals by designing the system following the criteria below:

1. Make System simple and flexible for user.
2. Make system compatible.
3. Efficiency
4. Easily access and 5. Timely Delivery

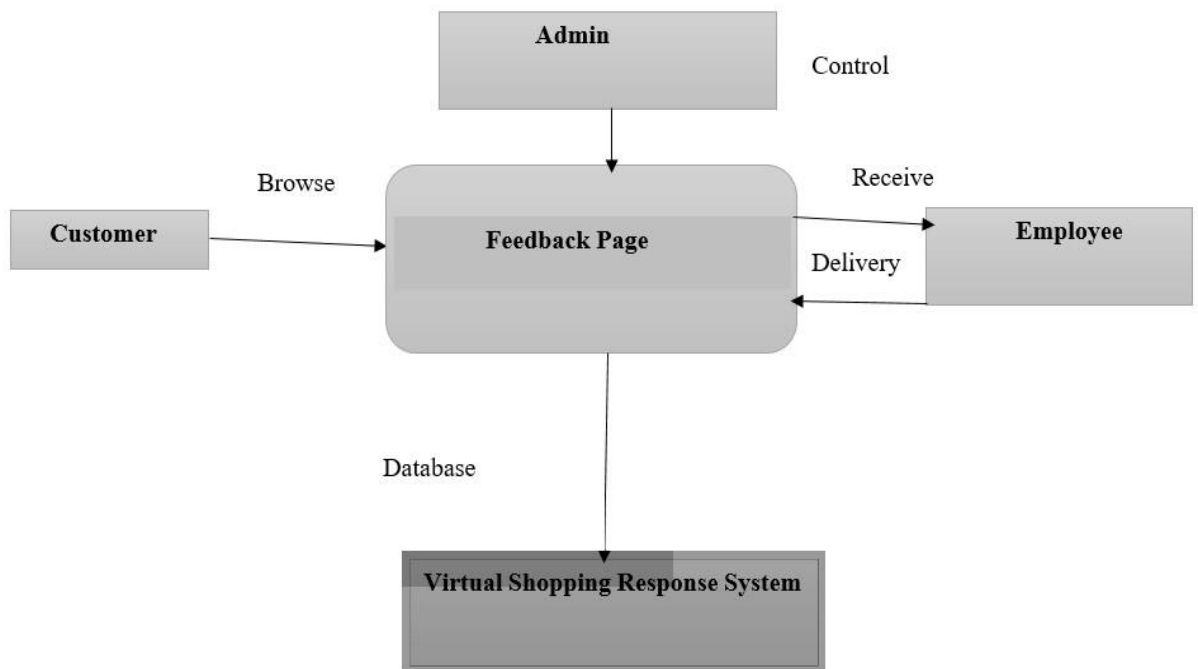


Figure 3.5.1: System Diagram

3.5.1 Detailed Diagram

In these diagrams, the customer has permission to access the order. Then they submit feedback on the specific order. The whole online purchasing system is shown in this details diagram.

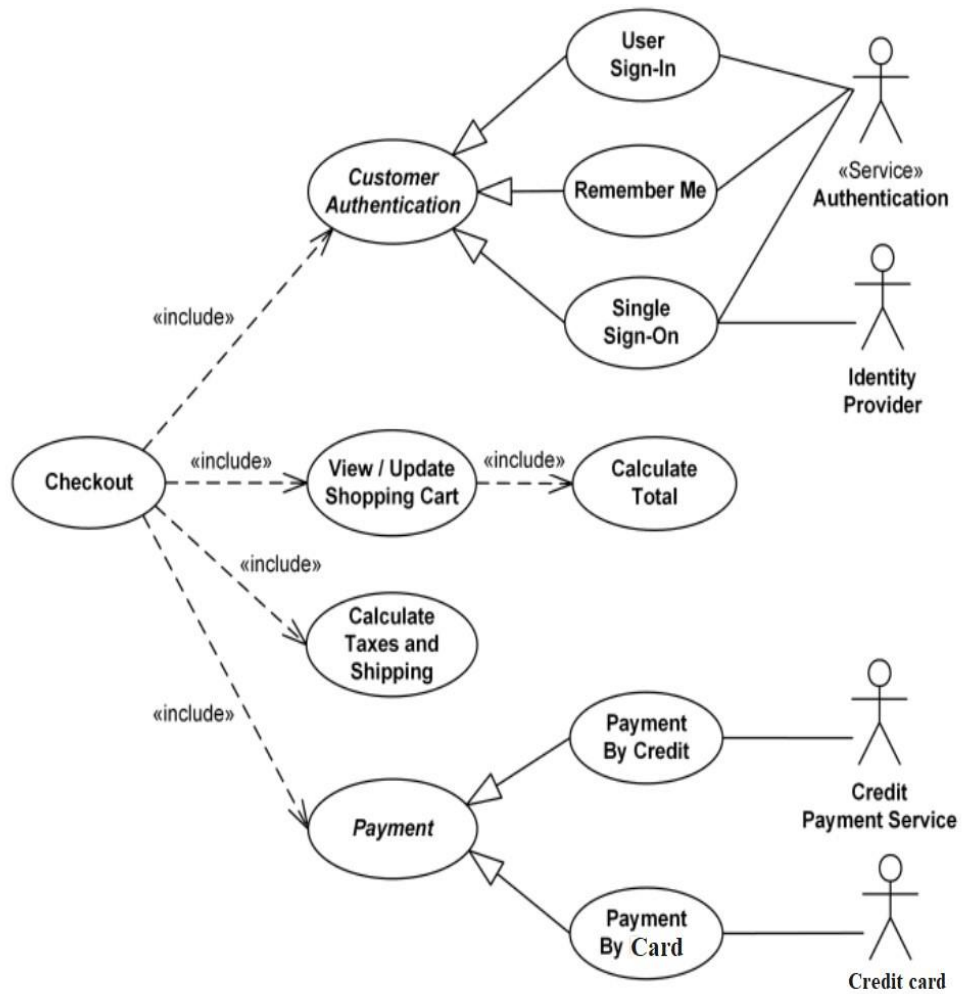


Figure 3.5.2: Detailed Diagram

CHAPTER 4

DESIGN SPECIFICATION

4.1 Front-End-Design

HTML

▪Basic HTML

All kind of HTML Tags, Element, Attributes, Paragraph, Headings, Line Breaks, Lists, image Tables, Font, Media and Char set.

▪ HTML Forms

Input, Text fields, Checkbox, Radio Button and Text area etc.

▪ HTML5

Footer, Header, DOCTYPE, Canvas etc.

CSS

- Basic CSS (Selector, internal,external,inline,class,id,background,color, font, margin, Border, list CSS, hovering and elements)
- Advanced CSS (Border-radius, box, layer, position, display, float, gradient)
- Concept of Menu (Single, Multiple, Dropdown)
- Temple Design Using CSS div
- SASS

Bootstrap

- Environment Setup
- Grid System
- Typography
- Tables, Forms, Buttons, Images
- Dropdown, Button group
- Navigation Element
- Bootstrap plugin (Transition, Model, Tab, Tooltip)
- Java Scripts, Angular JS and Word Press

Object Oriented PHP

We want too slowly go over fundamental OOP principles while creating our own PHP objects with this knowledge. We were able to explore OOP further.

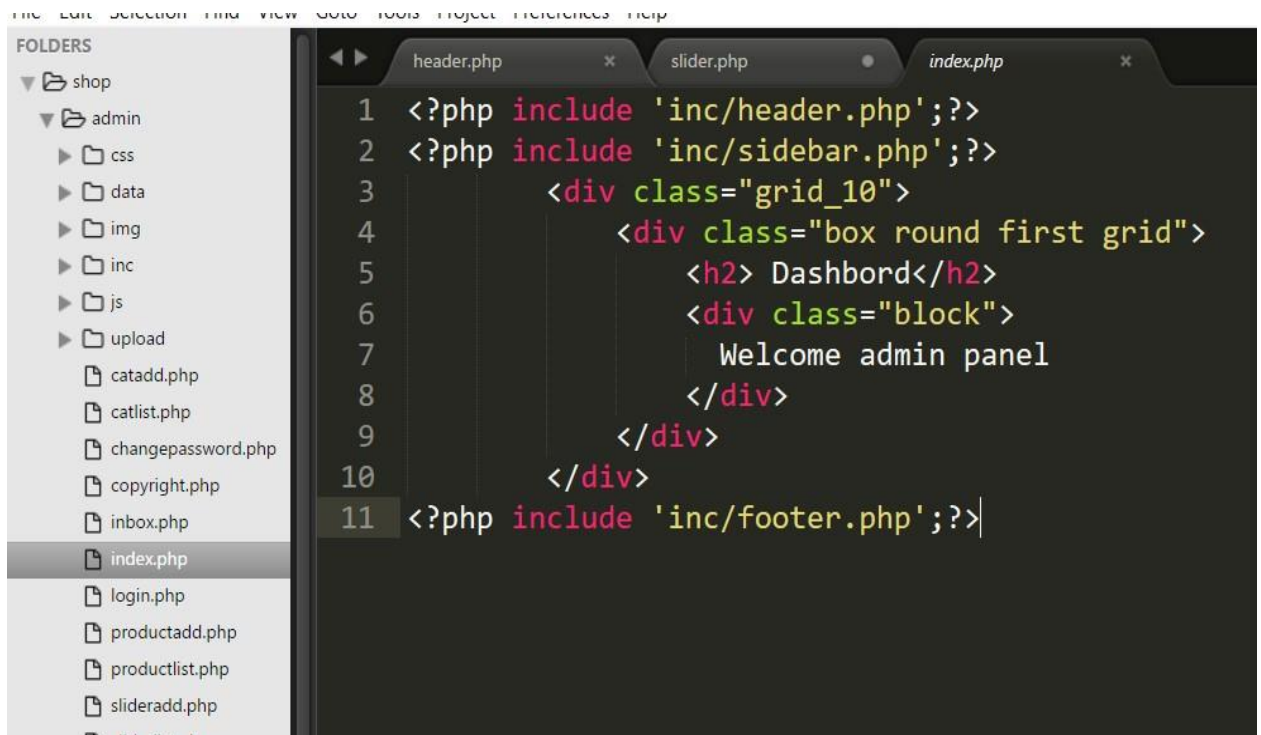


Figure 4.1.1: OOP Feature

HTML

Home page HTML5 coding with Raw PHP and JavaScript coding. Here is the view of it:

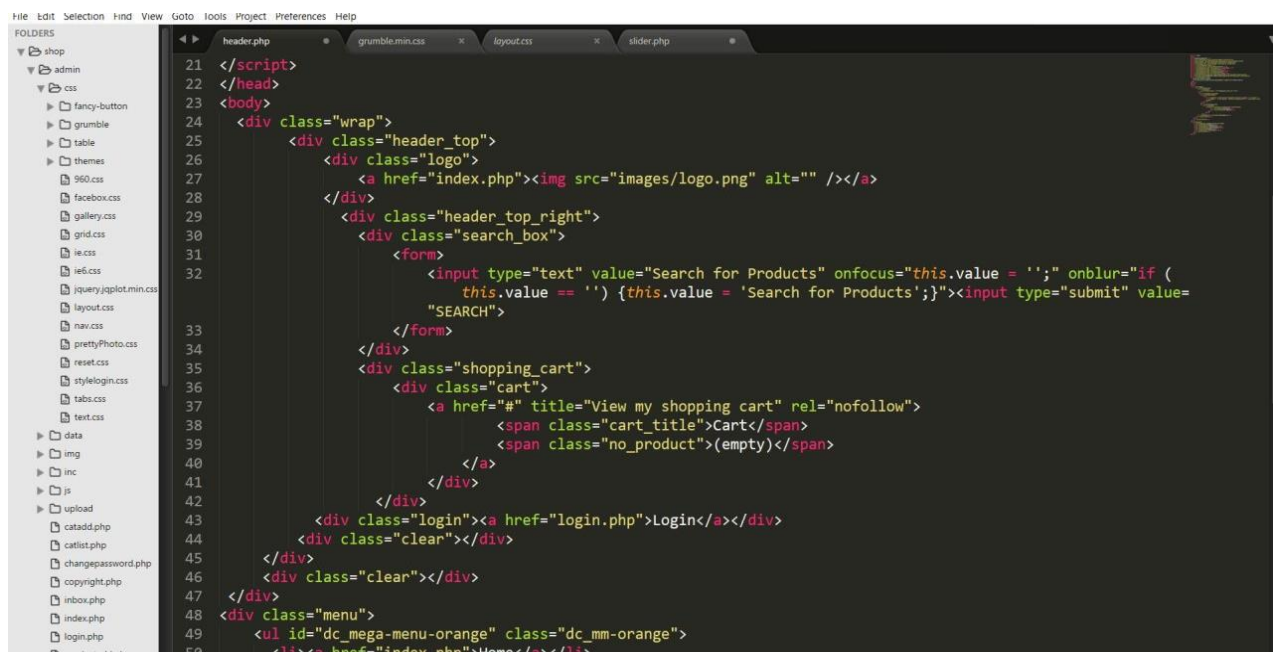


Figure 4.1.2: HTML Coding

Java-Script

C:\Users\Ripon\Desktop\Template-CalculatorTemplate\index.html (USSLproject) - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

```
index.html
251 <script>
252     $(document).ready(function(){
253         $('#fc').fullcalendar();
254         var is_calculated = "no";
255         $('#pb-calc-btn').click(function(){
256             if(is_calculated == "no")
257                 var output = $('#screen').val();
258             else
259                 var output = "";
260                 is_calculated = "no";
261                 var value = $(this).text();
262                 var result = output + value;
263                 $('#screen').val(result);
264             })
265         $('#btn_equ').click(function(){
266             var screen = $('#screen').val();
267             var result = eval(screen);
268             $('#screen').val(result);
269             is_calculated = "yes";
270         });
271         $('#btn_c').click(function(){
272             $('#screen').val('');
273         });
274     });
275 </script>
276
277
278
279
280 <!-- Calculator - END -->
281
282 </div>
```

Figure 4.1.3: Java-Script

4.1.1 Home Page

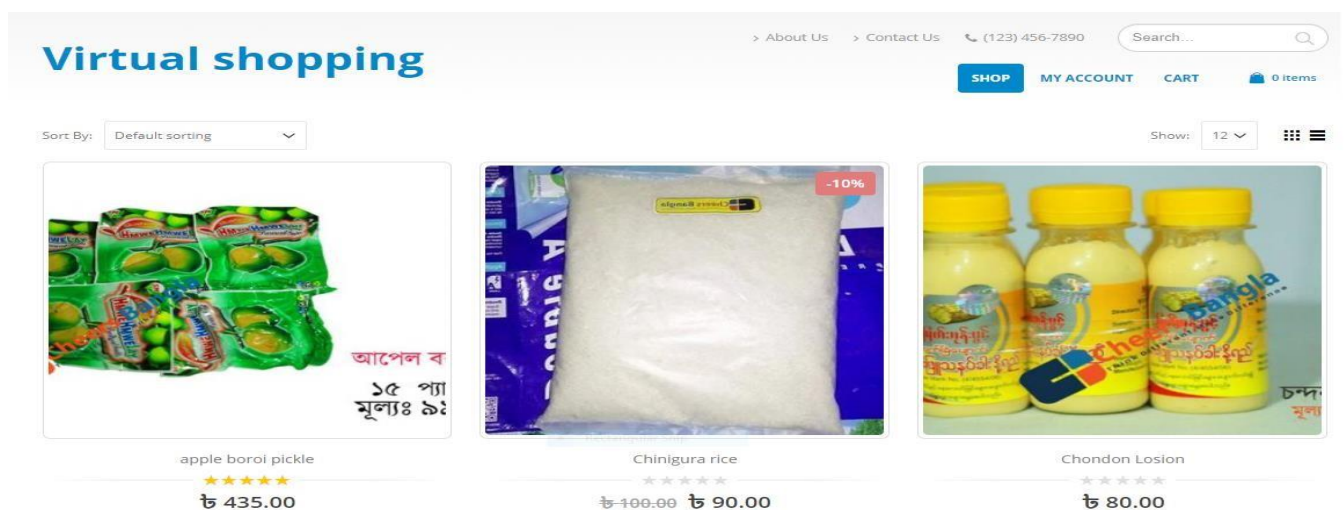
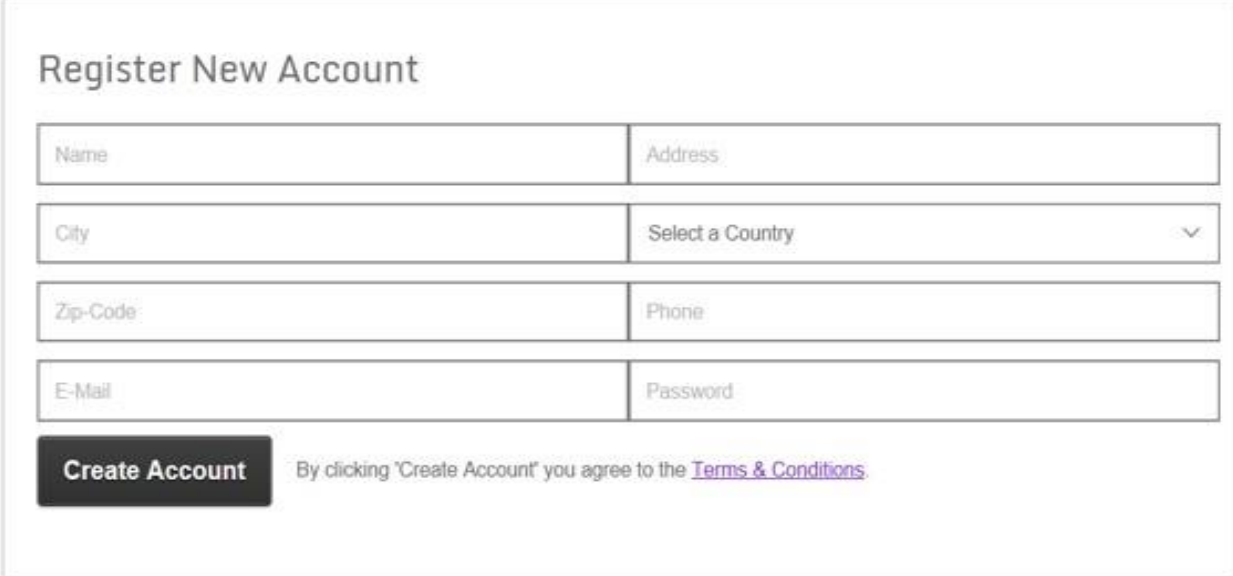


Figure 4.1.1.1: Home page

4.1.2 Registration page Customer

Before purchasing things, all customers need to be registered unless they cannot buy their goods. It's mandatory and essential for us to maintain the database and order delivery process.



The registration form is titled "Register New Account". It contains several input fields arranged in a grid-like structure. The first row has "Name" and "Address". The second row has "City" and "Select a Country" with a dropdown arrow. The third row has "Zip-Code" and "Phone". The fourth row has "E-Mail" and "Password". Below these fields is a dark "Create Account" button. To the right of the button is a line of text: "By clicking 'Create Account' you agree to the [Terms & Conditions](#)."

Name	Address
City	Select a Country ▼
Zip-Code	Phone
E-Mail	Password

Create Account By clicking 'Create Account' you agree to the [Terms & Conditions](#).

Figure 4.1.2.1: Registration page Customer

4.1.3 Customer login

Customers who want to buy the product must login and then enter the login panel, where the customer has to use his/her username and password.

The following figure of below as:



The login panel is titled "Virtual Shopping Customer Login". It features two input fields: "Username" and "Password". Below these fields is a checkbox labeled "Remember me on this computer". To the right of the checkbox is a "Login" button. At the bottom of the panel, there is a line of text: "Not registered? [Sign-Up!](#) - [Forgot your password?](#) [Click here to reset it](#)".

Virtual Shopping Customer Login

Username

Password

☐ Remember me on this computer **Login**

Not registered? [Sign-Up!](#) - [Forgot your password?](#) [Click here to reset it](#)

Figure 4.1.3.1: Customer login panel

4.2 Back-end Design

Server

Almost all of the work web applications take place on the server. A specific application called a web server would be responsible for communicating with the browser. A relational database server stores whatever information the application requires. Finally, we need a language to broker requests between the web server and database server, which will also be used to perform programming tasks on the information that comes to and from the web server. But of course, none of this is possible without an operating system. The web server programming language and database server must work well with the operating system [2].

There are so many web servers available in the market, but we used APACHE; Because it's the best now for all in one with a package. Its first and reliable to.

MySQL has been used for database for the system. It's cost-effective with a relational database format.

XAMPP is a combined software package with all of the custom software we used in this system application.

Scripting Languages

1. OOP and Raw PHP have been used as a scripting language. PHP is easy and first to managed perfect mix of power and structure. Generalization made and some other excellent reasons for choosing PHP behind.
2. **Cross platform:** PHP can run different operating system efficiently. Example Linux, windows.
3. **HTML embedded:** PHP code can write with HTML code format.
4. **Server side:** PHP Code run on web server but can't see the user as this is significant security issue [3].
5. **Web scripting language:** PHP programs run via web server.

4.3 Interaction Design and UX

The system will help customers and administrator in the e-commerce business, especially online shopping. Most customers want to purchase products by using them manually, but we provide not only online selling services with 100% purity and timely home delivery with suitable price and

quality. There is no way to organic products and timely delivery. We can make grantee to the quality of our products.

Our system provides customers valuable time saving, price, quality and accuracy with the reliable form and security of all information about customers provided.

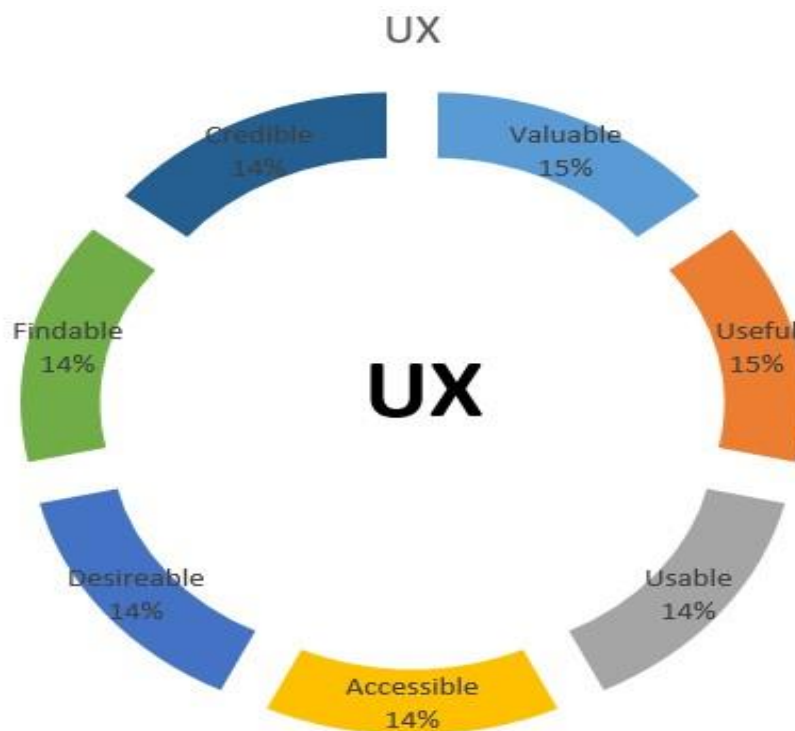


Figure 4.3.1: UX

4.4 Implementation Requirements

To run this project software smoothly in practical life, we must fulfill some requirements. These are below:

1. Hardware Requirement
2. Software Requirement
3. The design needed to implement in web programming language PHP with Raw PHP.
4. Preferred Database is MySQL (Engine: InnoDB).
5. Hosting platform should be Linux based server.
6. Schedule wise backup from server (Both source code and Database).
7. Failed log in needed to store in database.
8. SQL injection needed to protect with string escaping.
9. Form validation needed using java-script before server site validation.

10. CROSS-SITE-SCRIPTING needed to verify.
11. Unauthorized attach needed to prevent with maximum attach limit.
12. Invalid data input should display error message.
13. For specific design JQuery needed to be implemented.
14. In front end design bootstrap framework is needed.
15. For visual aspect different types of fonts and icons are collected from Google font and font awesome.

Hardware Requirement

One database server must be available to implement the system with following configuration. Server class brand PC hosting MySQL database server.

1. Processor specification Pentium IV clock speed 1.2 GHZ minimum.
2. Memory Specification 1GB.
3. Hard Disk Specification 100 GB.
4. Operating system windows 7 or else.
5. Hosting and Domain name for live server.

Software Requirement

1. Operating System (windows 7 or above else)
2. Server (XAMPP Server for PHP, APACHE and MySQL) 3.Editor (sublime, Notepad++, Net Beans whatever else)

CHAPTER 5

IMPLEMENTATION AND TESTING

5.1 Implementation of Database

Implementation of database was an essential part of any web project, where the database is set to store the all project data. The database is a way of storing information we work with within different phases. There are two images below for database creating table:

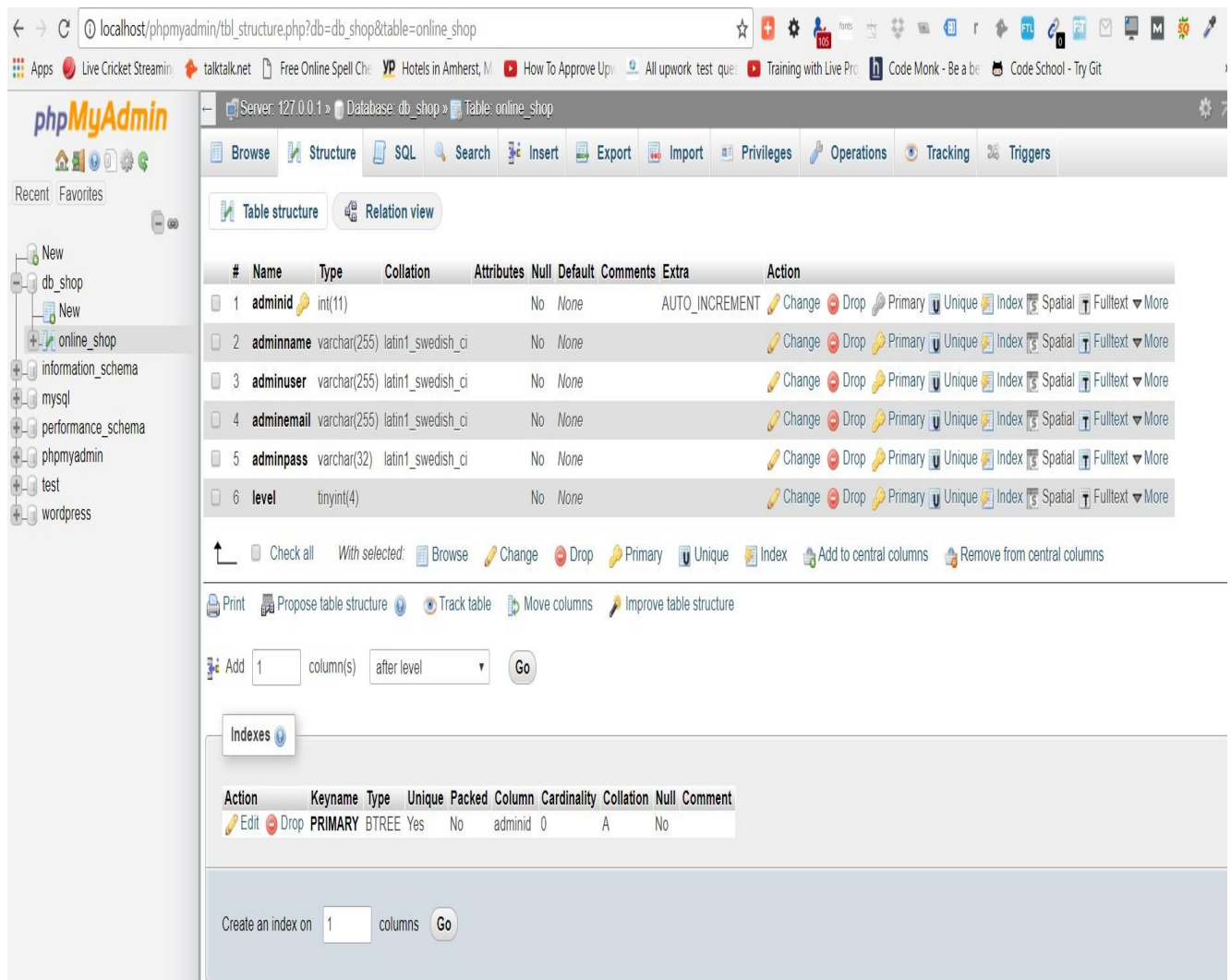


Figure 5.1.1: Database

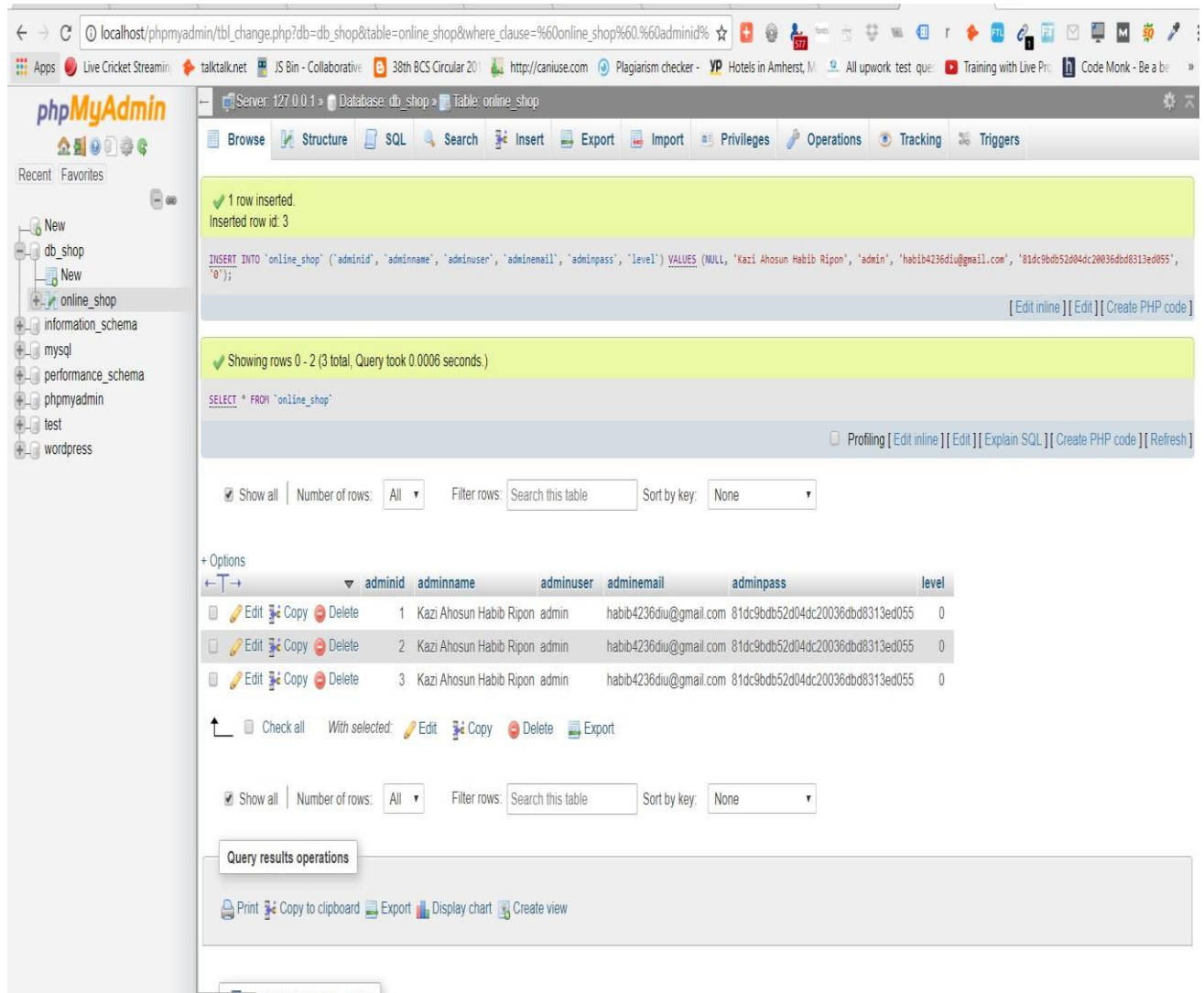


Figure 5.1.3: Implementation Database

5.2 Implementation of Front-End design

When we implement the project's front-end design, some forms that come from front-end coding. The challenges were more when we implemented the state from the code we wrote, and there, their perfection was the matter for us. In Front end implementation, we used HTML5, CSS3, and JavaScript code. The code runs inside user browsers.

5.2.1 Front-End design

In the home page, we can see that the customer can view the products. When a customer wants to order, he needs to log in. If he does not register before than he needs to be register first than purchase.

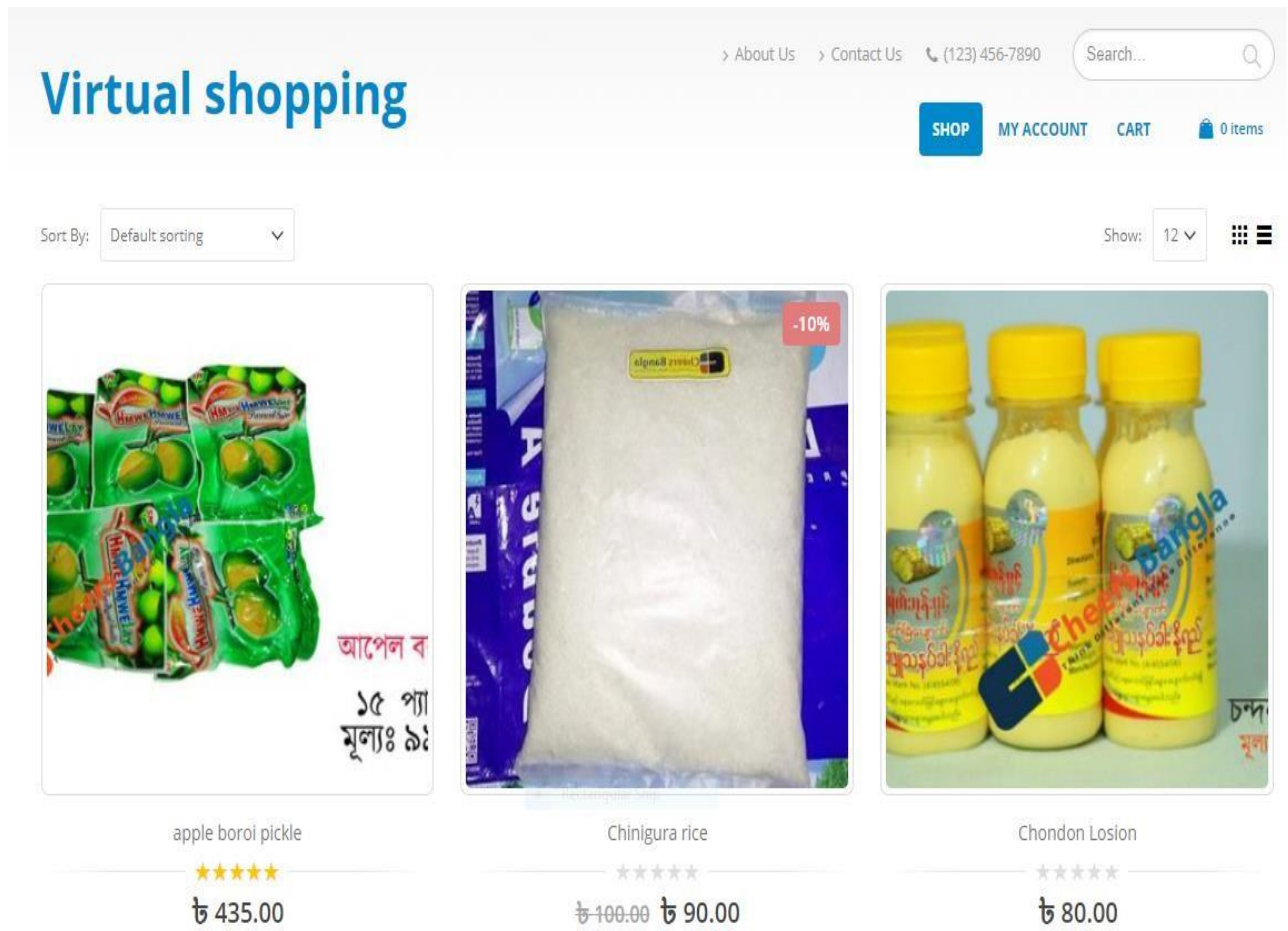


Figure 5.2.1.1: Front-End design

5.2.2 View products Details



Figure 5.2.2.1: Product List

5.3 Admin login Panels

Admin login panel is the central controller of the virtual shopping management system. Admin has the authority to operate on the system. The admin would be able to access the system by using a user name and password. The admin login panel would be separated from the system models for everyday users.

The following figure of below as:

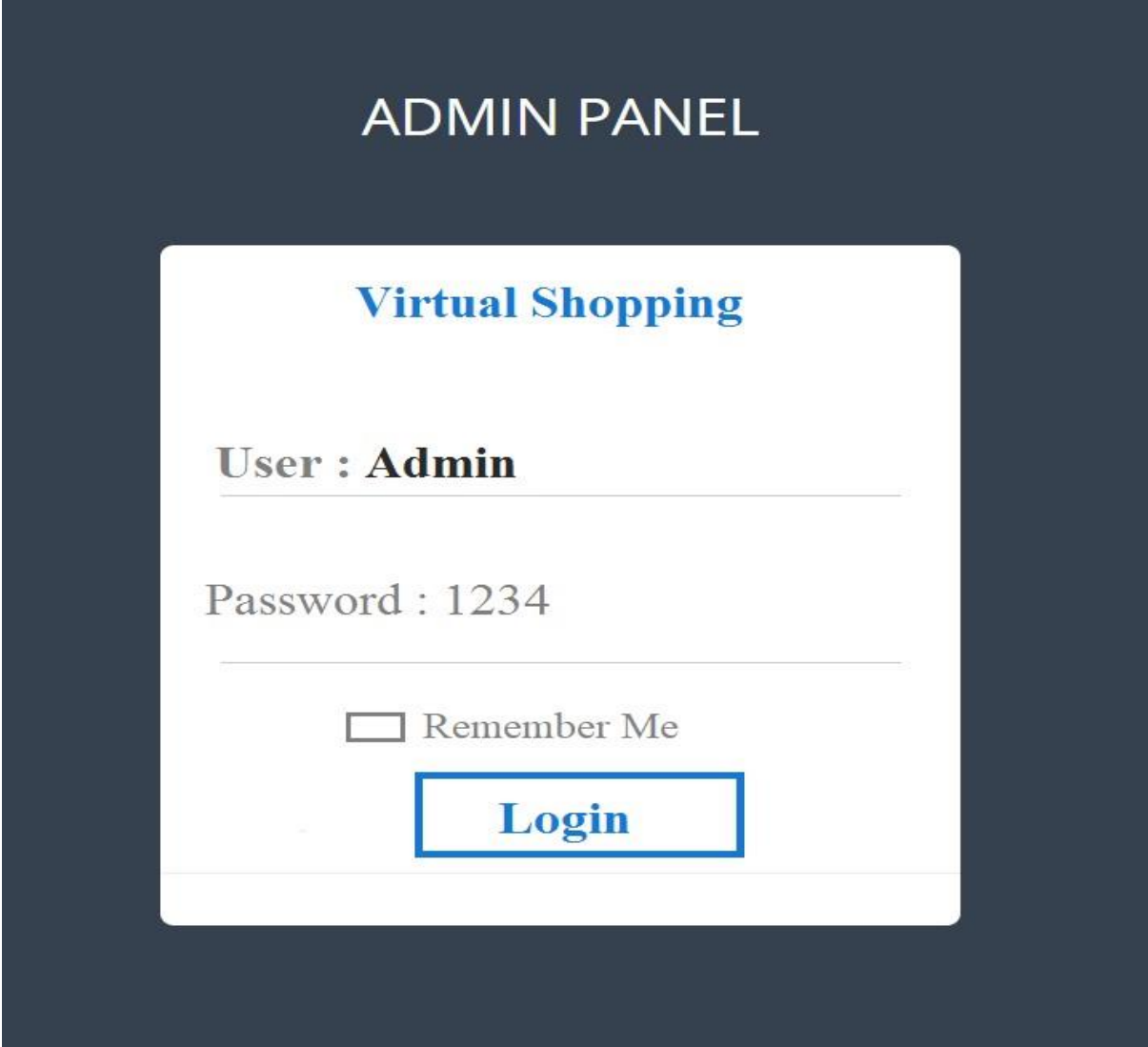
The image shows a login interface for an 'ADMIN PANEL'. The background is a dark blue-grey. In the center is a white rounded rectangle. At the top of this rectangle, the text 'Virtual Shopping' is written in a blue, serif font. Below this, the text 'User : Admin' is displayed in a black, serif font, with a horizontal line underneath. Further down, the text 'Password : 1234' is shown in the same black, serif font, also with a horizontal line underneath. Below the password field is a checkbox followed by the text 'Remember Me' in a grey, sans-serif font. At the bottom of the white rectangle is a blue rectangular button with the word 'Login' in white, bold, sans-serif font.

Figure 5.3.1: Admin login panels

5.3.1 Authority Admin Dashboard

Admin can see the customer's orders and assigned delivery and check the validity of purchasing.

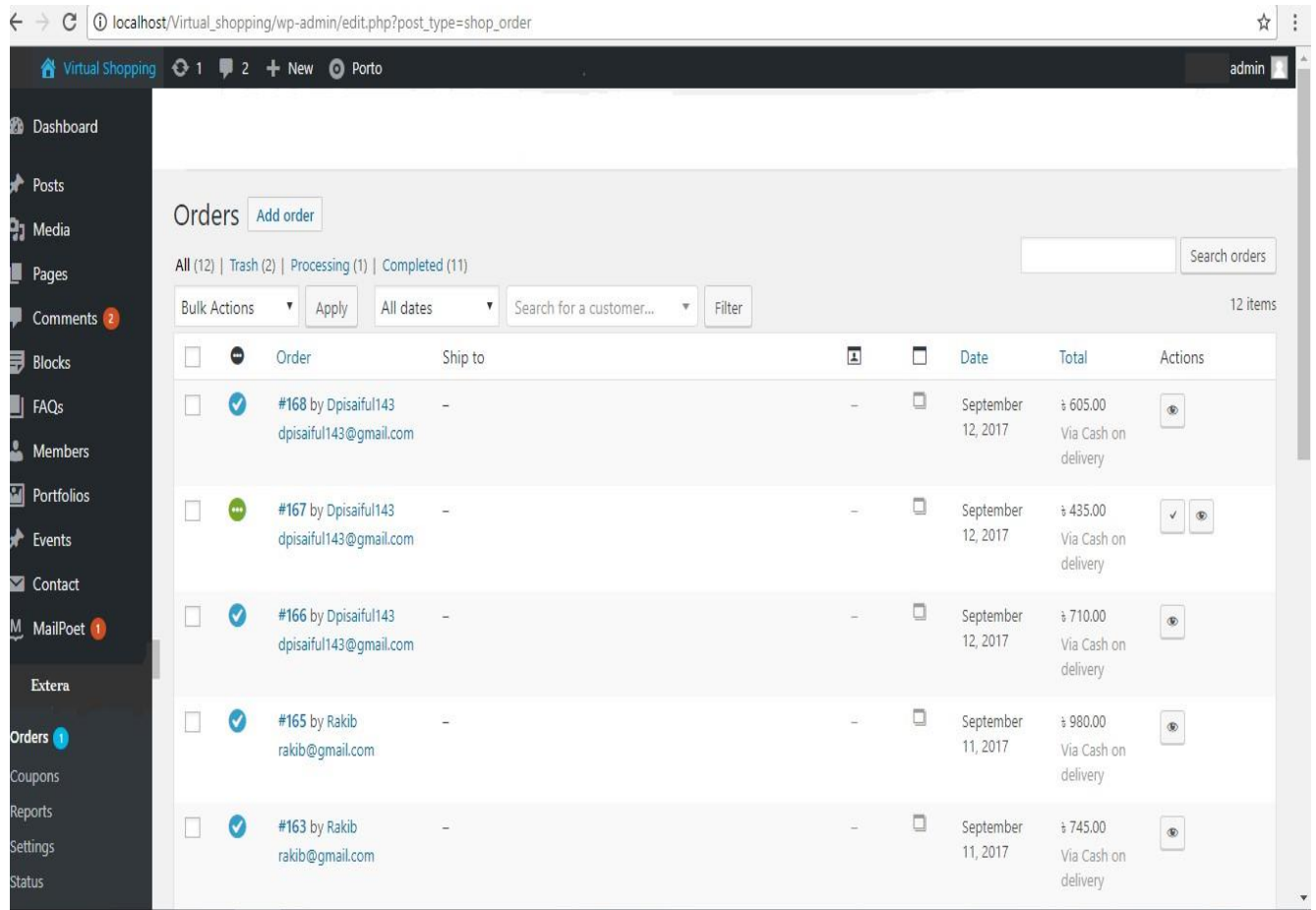


Figure 5.3.1.1: Authority Dash Board showing order from customer

5.4 Testing Implementation

Testing implementation is process of testing upcoming implementation of a system, where tester or system architect will see cases and specification, is it implementable or have limitations.

Test Case	Test Input	Expected outcome	Obtained outcome	Pass / fail	Tested on
1. Registration	Empty name, email, status, password, mobile	Show restriction to Fill all the fields	Fields must be filled by data	Pass	06-04-17
2. Login	Login email and password via various devices such as tablet, pc ,cell phones	Successfully login	Successfully login	Pass	06-04-17
3. Password	Incorrect password or empty field	Warning the incorrect password or field is empty	Show warning	Pass	06-04-17
4. Profile settings	View profile, Update profile	Show and update profile information	Show and update information successfully	Pass	06-04-17
5. Purchasing system	Order, Make payment	Successfully Add Order	Successfully purchasing	Pass	06-04-17

Figure 5.4.1: Test case evaluation

5.4.1 User Acceptance Testing

The table below summarizes the test cases employed for user acceptance testing and the test result obtained for each test case.

1.Coxsbazarshop.com	<ul style="list-style-type: none"> • Reseller Vendor • Search category • Select products from product list
2.Chaldal.com	<ul style="list-style-type: none"> • Only for House hold things • Search category • Select products from product list
3.Virtual Shopping	<ul style="list-style-type: none"> • All kind of products with technology • Search location wise • Search by budget • Select category of advertisement from the list

Figure 5.4.1.1: User Acceptance Testing

Questions for some users:

1. UI was user friendly?
2. Do you think you found the two pieces of information you needed as expected?
3. Does the system is easy to handle?
4. Easy to purchase?
5. Is the Information and payment method secured?

5.5 Test Result

The table below summarizes the test cases employed for user acceptance testing and the test result obtained for each test case.

Test Report is needed to reflect testing results formally, which allows for estimating testing results quickly. It is a document that records data obtained from an evaluation experiment in an organized manner, describes the environmental or operating conditions, and shows the comparison of test objectives [4].

A test report is very critical, and it is needed to know whether the system is ready or not for implementation? It is a document that records data obtained from an evaluation experiment. We need to run through many types of testing.

There are many types of testing:

1. Functionality
2. Regression
3. Security
4. Performance
5. Scalability
6. Usability
7. System interoperability
8. Localization
9. Disaster recovery
10. Installation.

If the system passes through all these types of testing, it is finally ready to launch.

So, we can carry out the results as the benefits of usability testing.

1. Good Quality of application.
2. System is easier to use in the system.
3. Users more readily accepted applications.
4. Easy to use for the new users.
5. Better UI for interaction.

For this section of the questionnaire please choose the appropriate number, with number 1 being 'entirely agree', 2 being 'agree', 3 being Neither Disagree nor Agree 4 being 'disagree' and 5 being 'entirely disagree'.

	entirely agree	agree	Neither Disagree nor Agree	disagree	entirely agree
1. I love shopping a lot	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
2. Every time I choose only one site for my online shopping which I feel good	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
3. I would not return to the site again if I am not satisfied with site for the first time	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. I prefer doing shopping quickly	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. I prefer to buy things every time which do got offers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
6. I do not spend more for shopping	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
7. I am very curious about buying products which are newly introduced	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
8. I prefer buying from a site which is organized in such a way that it minimises my shopping time	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Figure 5.4.1: User Feedback Testing

CHAPTER 6

CONCLUSION AND FUTURE SCOPE

6.1 Discussion and Conclusion

The system will build up communication between vendor and customers. It will help to upgrade customer's critical thinking level. It will save and reduce time. No chance of losing any sort of data during transaction. The system will become with more upgrades and a new features in future. It will be upgraded with its web interface layout.

6.2 Scope for Further Developments

We have some limitation now; soon, we will try to reduce our limitation as much as possible.

1. In future, we intend to implement an artificial intelligence, which will put the feedback automatically in future.
2. Will implement a notification system.
3. System features will be upgraded day by day for better use.
4. System will implement a new UI if needed for good looks.

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APPENDIX

Project Reflection:

From the Spring-2017 semester, we started our journey to make a system where customers can buy their daily necessities (Cloth, Rice, Vegetable, Meats, Fish, Honey etc) easily using a website. We followed the model to implement and monitor our system; with the all the hard works and spending a lot of time finally, we were reached our goal at last.

The project “Virtual Shopping Management System” will benefit customers who do have not enough time to go market for shopping. Customers can easily buy their needed products following some easy rules. Users have to register first to buy anything from this site, and User will take the pertinent information they want for shopping. After enlisting in the page, customers can access entry into the page and buy anything they want. The entire process is a straightforward and time-consuming method.

So we believe that our “Virtual Shopping Management System” will be a positive and effective, and helpful thing for both the owners and the users. And we will be continuously upgrading our system.

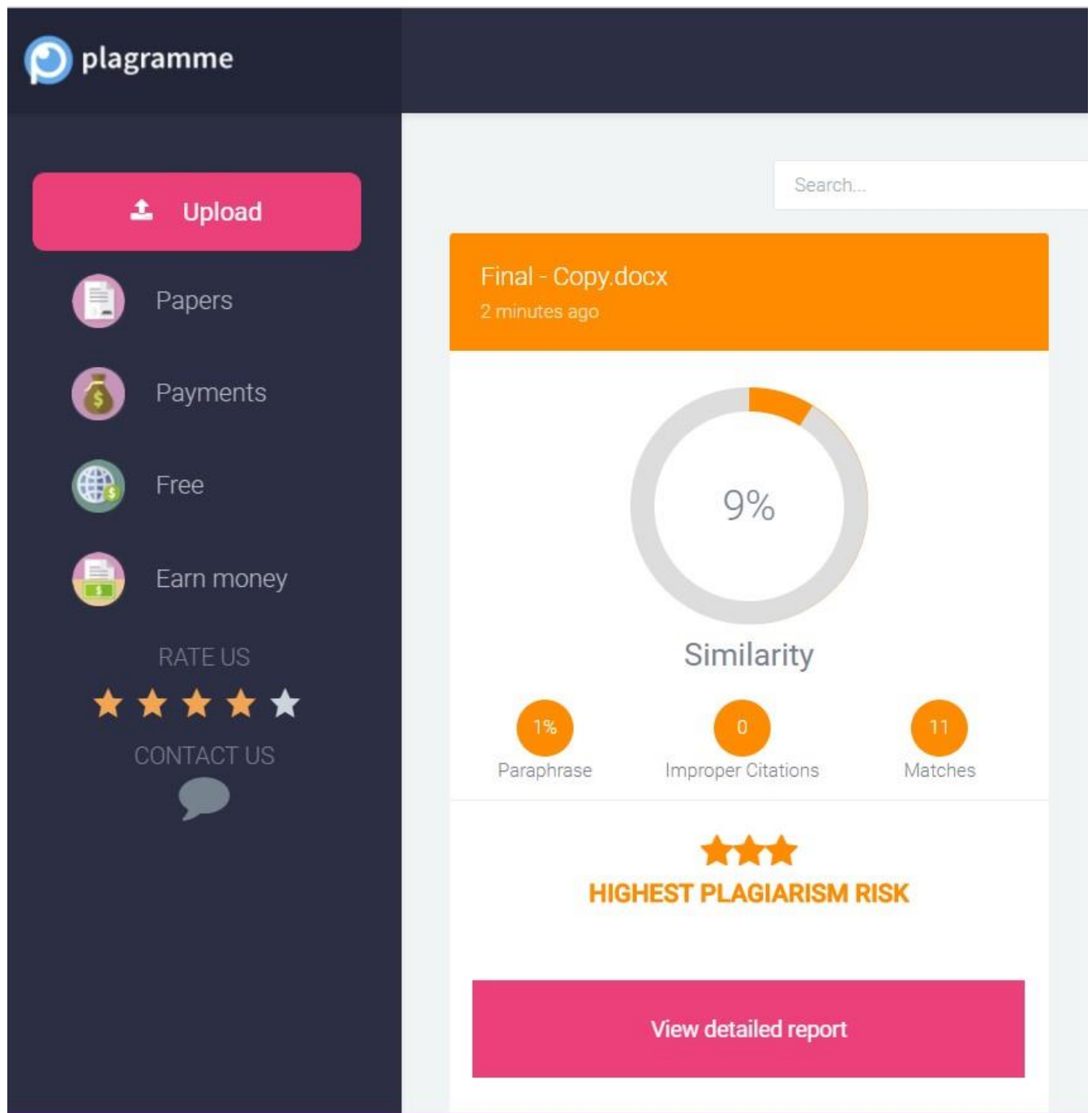


Figure 6.1: Plagiarism Check