

# **Online Shopping System**

**BY**

**MD. MASHRUR RAHMAN**

**ID: 171-15-8679**

**AND**

**ABDUL MOTALAB**

**ID: 171-15-8611**

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

Supervised By

**Mr. Asif Uz Zaman Asif**

Lecturer

Department of CSE  
Daffodil International University

Co-Supervised By

**Shadaab Kawnain Bashir**

Lecturer

Department of CSE  
Daffodil International University



**DAFFODIL INTERNATIONAL UNIVERSITY**

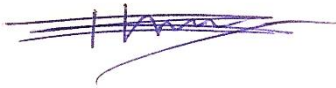
**DHAKA, BANGLADESH**

**APRIL 2021**

## **APPROVAL**

This Project titled “**Online Shopping System**”, submitted by Abdul Motalab ID:171-15-8611 and Md. Mashrur Rahman ID:171-15-8679 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 03-06-2021.

### **BOARD OF EXAMINERS**



---

**Dr. Touhid Bhuiyan**

**Professor and Head**

Department of Computer Science  
and Engineering

Faculty of Science & Information  
Technology

Daffodil International University

**Chairman**



---

**Gazi Zahirul Islam**

**Assistant Professor**

Department of Computer Science  
and Engineering

Faculty of Science & Information  
Technology

Daffodil International University

**Internal Examiner**



---

**Raja Tariqul Hasan Tusher**

**Senior Lecturer**

Department of Computer Science  
and Engineering

Faculty of Science & Information  
Technology

Daffodil International University

**Internal Examiner**



---

**Dr. Dewan Md. Farid**

**Associate Professor**

Department of Computer Science  
and Engineering

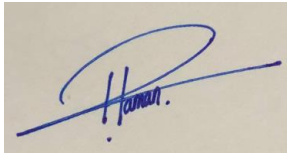
United International University

**External Examiner**

## DECLARATION

We hereby declare that, this project has been done by us under the supervision of **Mr. Asif Uz Zaman Asif, 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.

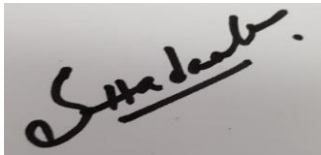
### Supervised by:



---

**Mr. Asif Uz Zaman Asif**  
Designation: Lecturer  
Department of CSE  
Daffodil International University

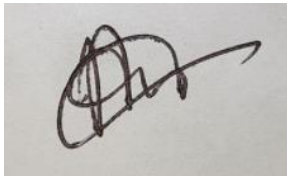
### Co-Supervised by:



---

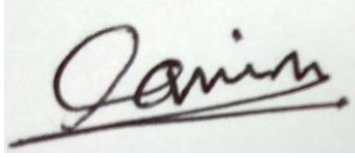
**Shadaab Kawnain Bashir**  
Designation: Lecturer  
Department of CSE  
Daffodil International University

### Submitted by:



---

**Name: Abdul Motalab**  
ID: 171-15-8611  
Department of CSE  
Daffodil International University  
©Daffodil International University



**Name: Md. Mashrur Rahman**

ID: 171-15-8679

Department of CSE

Daffodil International University

## ACKNOWLEDGEMENT

First, we express our heartiest thanks and gratefulness to almighty God for His divine blessing makes us possible to complete the final year project/internship successfully.

We really grateful and wish our profound our indebtedness to **Mr. Asif Uz Zaman Asif, Lecturer**, Department of CSE Daffodil International University, Dhaka. Deep Knowledge & keen interest of our supervisor in the field of “*Field name*” to carry out this project. His endless patience, scholarly guidance, continual encouragement, constant and energetic supervision, constructive criticism, valuable advice, reading many inferior drafts and correcting them at all stage have made it possible to complete this project.

We would like to express our heartiest gratitude to **Dr. Touhid Bhuiyan Head, Department of CSE**, for his kind help to finish our project and also to other faculty member and the staff of CSE department of Daffodil International University.

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

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

## **ABSTRACT**

Ecommerce is an option to buying and selling products via internet. There are so many people who go to market and buy their needy products physically and after that they back home by their own or public transport. But the problem is they waste their valuable time. That's why working with E-commerce for the people who have less time. E-commerce makes our life easy and less waste time. Customer can choose their products from the site and compare the price and products quality. Firstly, make sure that, the product quality is good and secure the system. In Bangladesh, there are so many e-commerce sites that they don't fulfill the customer service. Actually, they are not secure. After order the products customer need to get this with less time, but at present some e-commerce company say, they will give it will less time but after order they take so much time. Which is untreatable. At this time, make sure that application is trust worthy. In covid-19 the e-commerce is using so much then before and trading so much. The e-commerce company need to secure and trustable the services and deliver the products with less time. And take the advantage from the customer. Customer wants their products good and get early.

## TABLE OF CONTENTS

<b>CONTENTS</b>	<b>PAGE</b>
Board of Examiners	ii
Declaration	iv
Acknowledgements	vi
Abstract	vii
<b>CHAPTER</b>	
<b>CHAPTER 1: INTRODUCTION</b>	<b>1-4</b>
1.1 Introduction	1
1.2 Motivation	2
1.3 Objective	2
1.4 Expected Outcome	3
1.5 Report Layout	3
<b>CHAPTER 2: BACKGROUND</b>	<b>5-7</b>
2.1 Introduction	5
2.2 Related Works	5
2.3 Comparative Studies	5
2.4 Scope of the Problem	6
2.5 Challenges to solve	7
<b>CHAPTER 3: REQUIREMENT SPECIFICATION</b>	<b>8-17</b>
3.1 Business Process Modeling (BPM)	8



3.2 Requirement Collection and Analysis	8
3.3 Use Case Modeling and Description	9
3.4 Logical Data Analysis	14
3.5 Design Requirements	15
3.6 Sequence Diagram	16
3.7 Data Flow Diagram	17
<b>CHAPTER 4: DESIGN SPECIFICATION</b>	<b>18-21</b>
4.1 Front End Design	18
4.2 Back End Design	19
4.3 Interaction Design and UX	21
4.4 Implementation of Requirements	21
<b>CHAPTER 5: IMPLEMENTATION</b>	<b>22-30</b>
5.1 Database Implementation	22
5.2 Implementation of front-end design	24
5.3 Testing Implementation	30
<b>CHAPTER 6; CONCLUSION AND FUTURE SCOPE</b>	<b>31</b>
6.1 Discussion and Conclusion	31
6.2 Scope for the Further Developments	31
6.3 Limitations	31
<b>REFERENCES</b>	<b>32</b>
<b>APPENDIX</b>	<b>32</b>

## LIST OF FIGURES

<b>FIGURES</b>	<b>PAGE NO</b>
3.1: Business Process Modeling	16
3.2: Use Case Diagram of the application	10
3.3: Class Diagram	13
3.4: Flow Chart	15
3.5: Gantt Chart	16
3.6: Data Flow Diagram	17
4.1: Request Lifecycle	19
4.2: E-R Diagram.	20
5.1: Implementation of Payment table.	22
5.2: Implementation of Customer's Order Table	22
5.3: Implementation of Products Categories Table	23
5.4: Implementation of Admin Table	23
5.5: Implementation of Products Table	23
5.6: Implementation of Customers table.	24
5.7: First Page (Home)	25
5.8: Registration option(page) for User	26
5.9: User Login Page	27
5.10: User Dashboard	25
5.11: Admin Dashboard	28

# CHAPTER 01

## Introduction

### 1.1 Introduction

Inside of Bangladesh, there are so many people who have less time to doing shopping or take grocery products etc. also, someone cannot go outside physically for their sickness. Another problem is, if they order something from internet like e-commerce site and take products which damage or something happen to him with this product. Or e-commerce company take money from him more than the product price actually. That's why this service is here to help everyone by our trust and secure policy to the customer. Customer can order products from our application then they can see her/his ordered details via their account section and also, they add some product with existing products. If after sometimes customer wants to delete their ordered product, they can absolutely. Also, they can contact with the products owner if they want. And it will be easy to contact with the owner with less time. This is another opportunity to the customer from us. Customer wants trust good products and good behave from the company and deliver man. Have to make sure about this and we have this opportunity to make a satisfaction environment for both the customer and the owner. User buy product with our application with wider choices also lower price. They choose the product and compare with other products for choosing product easily and less time needed. User will happy to know that our application for web and mobile where they can use easily anytime anywhere in the country. People access all the product easily and check it out if needed without hesitation. There will be the merchant option for the people who can sell the product and open an account as a admin. They will also get some advantages from the authority. If they sold enough products to fulfill our target. But they will get all the products payment which is ordered by user. But the policy will make easy to the customer that customer will be benefited. This is the web based online shopping system that mainly focuses on basic operations like adding new product, new customer updating information, searching products so easily and get desire products and get so many facilities from this service. Online shopping system is a lifestyle, e-commerce web application which is provides various electronic and lifestyle products. This application allows viewing various products available enables register user to buy products with desire instantly using cash on delivery payment system.

## **1.2 Motivation**

Motivation comes from my family. One day I went to the market with my mom to do shopping for my relative's children. And we bought something and back home. As usual we had done our dinner and having talk with my mom what we have done today. After two days, we also order some clothes from the internet like e-commerce site with online payment. After two days, they delivered our product with damage and which is color I ordered they didn't give this. They changed this color. We believed them to delivered our product correctly. But what was happen to us, this untreatable. In working days, people are so busy to do shopping or taken the grocery food or children food by physically. Normally they ordered from the e-commerce site. Also, they are facing this type of problem like we have done.

Then one day night my mom told me that, why we cannot make an e-commerce site that people take their products secure and reliable though we have a shop. That time I make sure that, we have a clothes shop in a reputed shopping mall in Dhaka city. I told my mom that I am a final year student and I have to make an application, if you want then I can make an e-commerce site which done for you also for me.

## **1.3 Objective**

In this project, one of the objectives is that to connect the whole country with the e-commerce section and feel free to buy product from online by using our application. In our country like village site, so many people are not using e-commerce site to buy something, so we are going to connect with them by our own work. Another objective is to solve the payment method make easy and trusted source. User will pay by online or offline also have option to pay with physical bank. Create a trustable environment for all the customer and seller. Make sure that customer is satisfied with our services. Also have more option like secure the customer products, fast delivery policy, more offer and discount.

## 1.4 Expected Outcome

Online shopping system in an online platform that not only save time but also give fast outcomes. The transportation expense will be lower. It will decrease expense from their own money. It can solve the busy people's problem to go out for shopping. It can be profitable business. By using this platform, a client can easily choose their products himself. User choose their product and compare with other product that which is suitable for the user to take and all this type of method the company policy will help. Customer just order the product and we are here to deliver the product so fast for the customer satisfaction also customer can pay by their own way. User can give feedback in any cases. But have face a lot of challenges in the market. Trust and reliability and the promise will keep us saucerful.

## 1.5 Report Layout

The report is divided in five chapter. All chapter have different aspects of "Online Shopping System". All the chapter has so many parts to explain for details.

**Chapter 1: Introduction:** This chapter will cover with theoretical knowledge for our project. Also discusses about motivation, objectives and expected outcomes.

**Chapter 2: Background:** This chapter 2 will cover about application related works, comparative studies and the problem finding.

**Chapter 3: Requirement Specification:** This chapter will cover to explain Business Process Modeling (BPM), requirements collection and use case modeling also, logical data model and design.

**Chapter 4: Design Specification:** This chapter 4 will cover about project user friendly design (front end) also data store (back end), UX design and implementation requirements.

**Chapter 5: Implementation and Testing:** This chapter 5 will cover about Implementation of database, front-end design, interactions, testing. Also talking about testing results and reports.

**Chapter 6: Conclusion and Future Scope:** This chapter 6 will cover the last part (conclusion) and future opportunity of our application.

## **CHAPTER 02**

### **Background**

#### **2.1 Introduction**

“Online Shopping System” based on web and mobile application. In this chapter we have compared the existing web and mobile application. Future opportunity is explained here. Our main goal and the obstacle (challenges) we faced to build this system are described here. As we are facing so many obstacles to build it and at last, we made it with defeat all the obstacle. Comparison is the most important things for us that which is better or less important to take. With this application admin will sell the products and user can purchase from them by ordering products via online with easy payment method. Make sure that this application is secure and much reliable from the other existing application. This application will be the best option to the customer to buy products with so much offer which is provided from the authority. And it will be easy to use because of the good user-friendly design.

#### **2.2 Related Works like our application in the market**

Some web application is to just take the ordered and delivered the customer’s product with late and sometime also change their original product which were ordered. Also, some e-commerce company make a trap by name offers for the customer’s and customers fall into this trap. After this customer ordered and pay for the products. At last company delivered their products so late. But for us we make sure that we will cover this type of problems.

#### **2.3 Comparative Studies**

There are lot of web application like us. But many of them not trustable, reliable and late delivery process sometime damage the original products. We will make our team and the rules easy for the customers and the official’s process. Make them easy to use our site.

### 2.3.1 Comparison with related applications

A comparison analysis of some related applications is shown in the table below.

Activity	Daraz.com.bd	Evaly.com.bd	Online shopping System
User Registration	Yes	Yes	Yes
Edit Profile	Yes	Yes	Yes
Ordered Products	Yes	Yes	Yes
Need Mobile Verification	Yes	Yes	Yes
Need Email verification	Yes	Yes	Yes
User Comment	Yes	Yes	Yes
Previous History	Yes	Yes	Yes
Delivery Time	Sometimes late	Sometimes late	<b>Fast delivery</b>
Online/offline payment	Yes	Yes	Yes
Product Damage	Sometimes	Sometimes	<b>No</b>
Cheat with the products	Yes	Yes	<b>No</b>

Table 2.1: Comparative analysis Table

From the above table, some comparisons are different from the other services. Further also make this application different.

### 2.4 Scope of the Problem

We have collected all the requirement to build the system. Also, we followed the software development process and complete all the part. We are planning for this project for the long month and build career on it.



### **2.4.1 Time needed to complete this application.**

To complete this project, we taken time which is shown below.

Planning for application	18 days
Design and Analysis for	7 days
Coding to complete	4 months and 13 days
Implementation	2 weeks
Total	5 months 2 weeks 6 days

#### 2.2: Time scheduling table

This application has 3 modules like User, Admin and Authority. Here see that, the total time duration taken five months two weeks and six days to complete.

### **2.4.2 Target of our Project**

To solve the delivery issue problem. And also, payment method makes easily. At present the existing ecommerce are cheating with the customer to deliver the product or take more money by giving named as offer or else. But in our policy, make sure that the customer will be benefited by our services and offers.

### **2.5 Challenges**

The most challenging part to building the ordered system and delivered products so fast. And to design the database for the whole system was challenging part. To make this site user friendly have taken to much time and made it easy by our real team effort. Another challenging part is that to reach the people in the whole country with our products and services.

## Chapter 3

### Requirement Specification

#### 3.1 Business Process Modeling (BPM)

The BPM is analytical representation for the business also illustrate the organization business process.

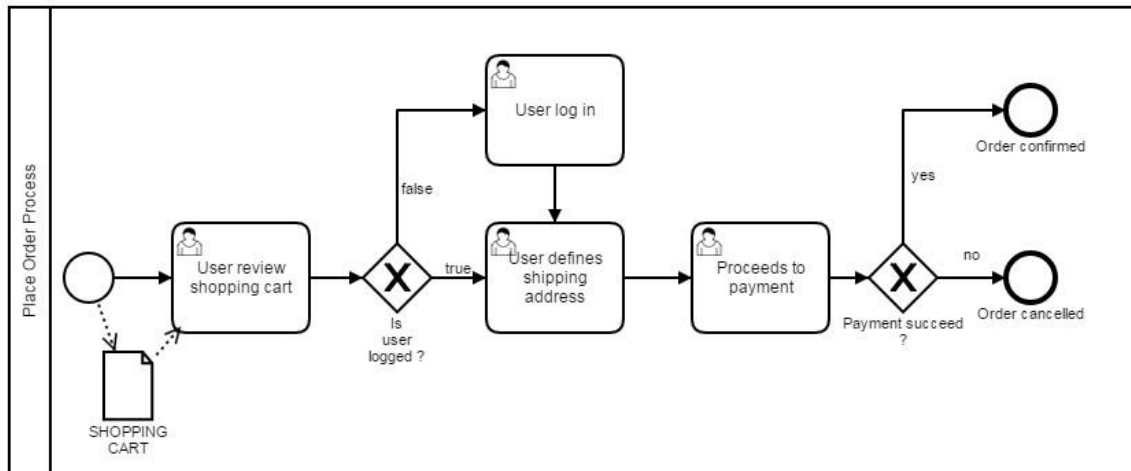


Figure 3.1 BPM of how user ordered product and cancelled also payment.[1]

This figure shows that, how a user ordered the products and cancel with the payment option. If user first enter the systems, then she/he can see all the products module and prices also offers which is for the customer. If user wants to order products, then need to register first then have to log in. And click the product add to cart then go to the cart option to order finally and click the payment option to pay. For payment user can pay whatever they want with our policy.

#### 3.2 Requirement(information) Collection and analysis

We collect the information(requirements) from the internet and also from some blog sites and analysis them how to make our site user friendly and easy to use. When we are going to make this application that time facing so many problems with requirements like which information, we need first and make it easy to use and store data for the authority and for the user next uses. Requirements like searching the products using searching option or through the home page. Sorting the products or filters will be provided for the customer. What will can customer do with this application need to specific requirement. Also talked with the senior about this application

for the requirement which type of requirement need for the next improvement. Research about the payment checkout to make it easy for the customer in the near future.

### **3.2.1 Software Requirements**

At first to run or open this application need operating system like Windows 10 or mobile operating systems. For design this application was using draw.io. For the front end design have to use some language like html5, css3, bootstrap, JavaScript, jQuery. After that when front end design completed then need to store the data for the next time using for user or admin or the authority. That's why used php and MySQL for the back-end site. To complete all this process, need some ide to make it like brackets, visual studio code, xampp. At last, to search this application need browser like google chrome or Firefox etc.

### **3.2.3 Functional Requirements**

Graphical User Interface (GUI) which is user interface. That means how many users friendly this system to use for the beginner user or advanced user. GUI works with the good systems design of an application.

### **3.3 Use Case Modeling and Description**

From the below explanation, customer will brows the products categories without registrar or login. After login customer will also see the products categories and ordered the products and confirm the delivery process. After order the main work is the admin to deliver and take all the responsibilities before the customer taken the products.

### 3.3.1 Model of System

The model system works with the admin and user module. Admin for the post or edit the product quality or prices, quantity and details of a product to sell. And for the user module user can see the products details and prices to buy a product with payment by their own way with our policy.

#### User Module

User will do this type of task in this web and mobile application:

**Registration:** User can registrar them in the system by email verification or mobile number. When user enters the system then they brows the products categories without login if they want to purchase a product then only need to registrar. For the login they need to enter the name, email address, resident address etc.

**Login:** After registration user can enter into the system to check out all module from her account section. If user want to buy products, then only need to login. For login to the system, they need user name or email address and password.

**Mobile Number Verification:** After login user need to be verified their phone number. They will get a barcode from the authority and have enter the system to verified.

**Edit Profile:** User can edit their own profile. Like they can edit their own profile picture or self-information. Also, can edit ordering process from their edit option.

**Ordered the Products:** User can order their chosen products. Like if user choose any kind of products, then they can order from them. After order they also cancel the order within few minutes.

**Comments:** User can also comment on this online shopping system. If customer facing problem or get some good services then they can add comment in the comment section.

**Feedback:** After complete work users can give their valuable feedback to owner with their services and about products like what type products they get and how this is. Or if any customer has a good option for us to improve our services, then they can also give feedback.

## **Admin Module**

Admin work Like this with the application:

**Login:** Admin can login after registrar as a admin. The authority will provide a user name and password to the admin then he/his can login using this.

**Add products:** Admin can add/delete the products also add products features, products details, prices, and the quality and quantity, availability etc.

**Manage Users:** Admin can see all the users. If customer ordered some product from the any kind of admins, then admin can see the user's profile.

**Manage Ordered:** Admin can see all the ordered products, and can verify the ordered process. After getting the ordering products then admin need to deliver the product within the time.

**Add Announcement:** Admin can add new announcement for the customers. Like admin have the new things to add for the customer then admin just click the add announcement option to add.

### 3.3.2 Use Case Diagram and Explanation

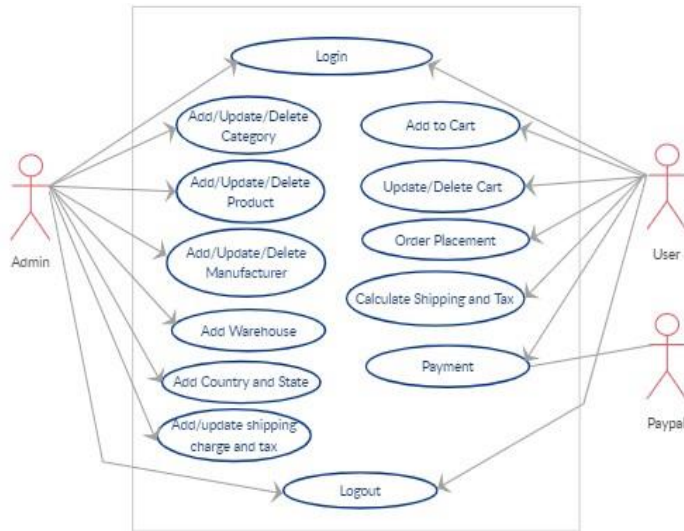


Fig 3.2: Use Case Diagram [2]

The use case diagram is for the admin and user with the payment method. The admin will work with the products related like add/delete/ update products details. Also, can update products features, quantity or products internal products quality. In the other hand user can do something after log in, can add to cart/ update or delete the product cart/ order placement after order have to payment complete with the payment option.

#### Actor Admin

Admin will be log in with the given ID and password from the authority. Then admin will access the system after log in also manage the customer order process after ordering.

**Add User:** Admin can add/delete the customer because of if any user buys from this admin, then admin can see her/his profile and can also delete but won't be able to add anyone without her customer.

**Add Products:** After login to the systems admin will be able to add products, prices, quality, quantity, products information, products photos etc.

**Manage Order:** Admin can see the order description form the user and cancel the ordering products for the specific reason.

## **Actor User**

This use case will open when the user or customer enters the systems. User can change their own profile, order products etc.

**Register:** If you want to do something like buying a product then you need to register at first.

**Update Profile:** After login he/she can edit her profile like change the image of her own, email address, resident address, personal information, name etc.

**Order:** After login to the system, user can order products by chosen herself and can be cancel if user want.

**Products List:** User can see her products list by using her product cart section also can be edit products list.

**Feedback:** User can give feedback to improve services or other process.

**Comment:** User can comment in the comment section about the products and services.

### 3.4 Class Diagram

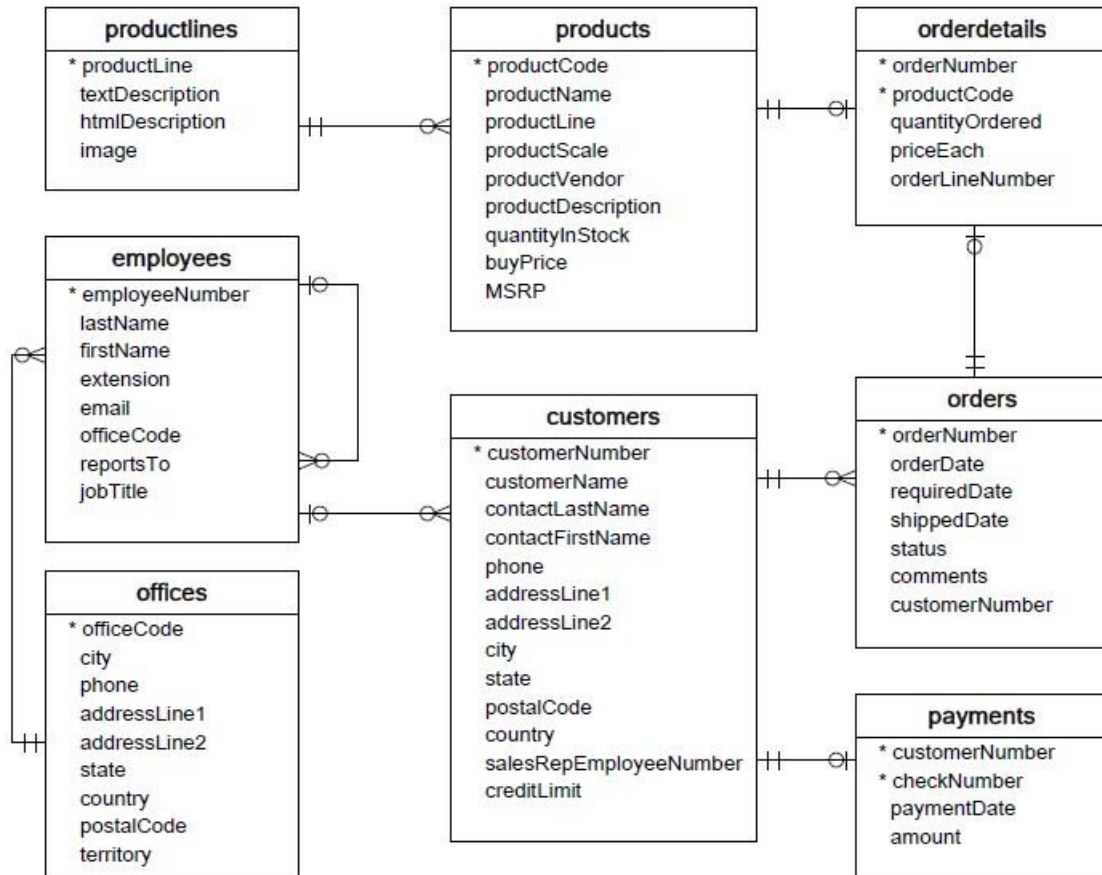


Fig 3.3: Class Diagram

In class diagram, mentioned about the products details in every products or customer or offices which find out that this is the individually pages or products or etc. like in employee, must have employee id, last Name, first Name email, job title etc. Also, for the customers have customer Number, customer name, phone, id, address etc.



### 3.5 Design Requirement

When designing the system of our application, that time considered the goals that our system going to be achieved. We hardly trying to make our system very simple and easy to use to the users. So that if we build a good system then we have to need less maintenance.

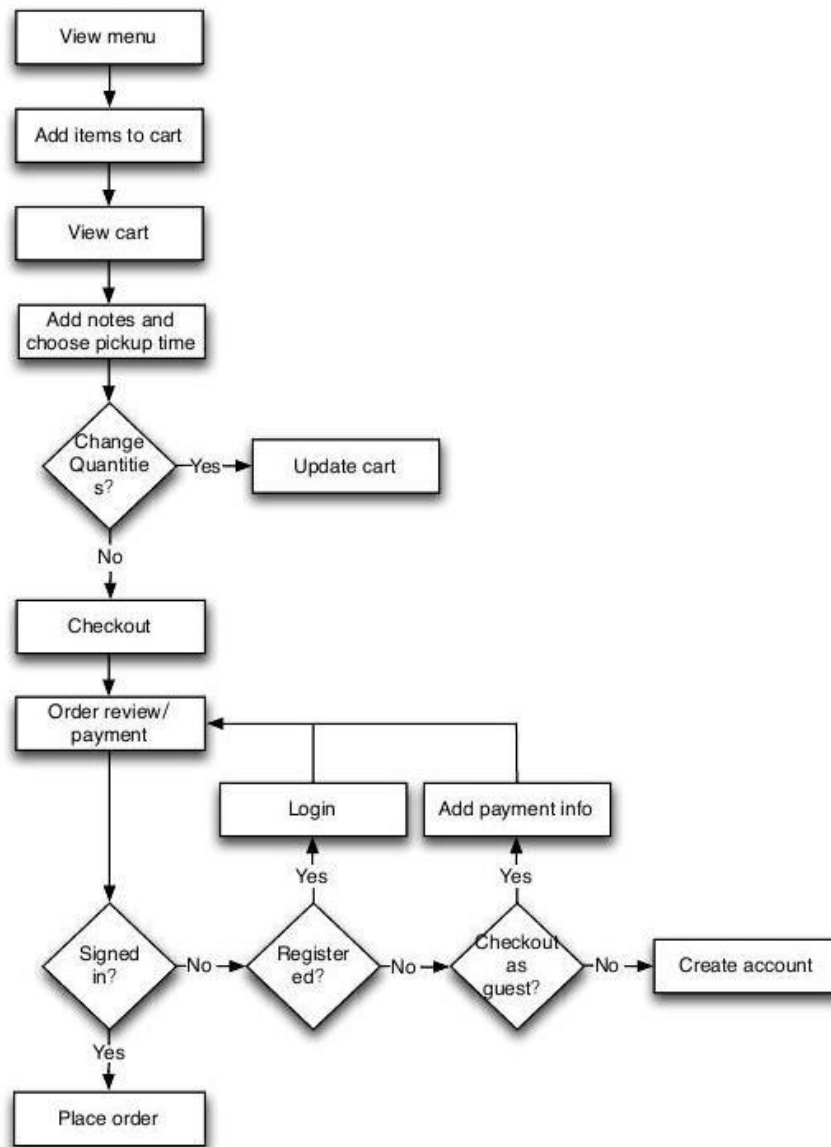


Figure 3.4: Flow Chart of the application.

### 3.6 Gantt chart

Weeks Task	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10
Coding									
System Design									
Requirement Analysis									
Installation									
User Training									
Application Development									

Figure 3.5: Gantt Chart

### 3.7 Data flow Diagram

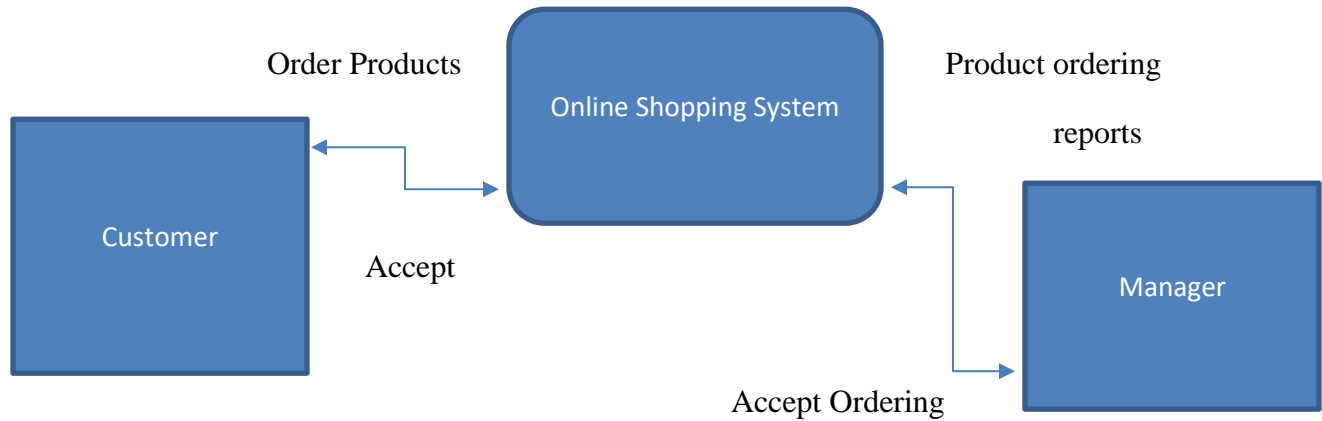


Figure 3.6: Data Flow Diagram

In data flow diagram, if the customer orders the products in the systems, then if the order accepted then customer will notify with the account section. While customer order the product, the system will notify the manager that the order is placed then manager accept this order and notify the customer that your order is accepted and you can pay the bill to get this product. Then customer will work with the next instruction.

## Chapter 4

### Design Specification

#### 4.1 Front-end Design

Any kind of web projects, the most important part of front end design part. Because user need to be understood everything to the first look. If user think that is not user friendly, they will not use this application. That's why made this application user friendly and done it. To make this application user friendly have to worked so much that it will be the best option to the user and feel attraction to our services for the first look.

1. User Registration page(screen)
2. Login (for User and Admin)
3. Dashboard (for User)
4. Feedback (from User)
5. Order Screen (User can see her/his order details)
6. User About Us Screen
7. User Car Listing Screen
8. User FAQs Screen
9. User Contact Us Screen
10. User Privacy Screen
11. User Review Screen
12. User Terms of Use Screen
13. Admin Login Screen
14. Admin Dashboard Screen
15. Admin Create Brand Screen
16. Admin Manage Brand Screen
17. Admin Post Vehicle Screen
18. Admin Manage Vehicle Screen

19. Admin Manage Booking Screen
20. Admin Manage Testimonials Screen
21. Admin Manage Query Screen
22. Admin Reg Users Screen
23. Admin Manage Pages Screen
24. Admin Update Contact Info Screen

## 4.2 Back-end Design

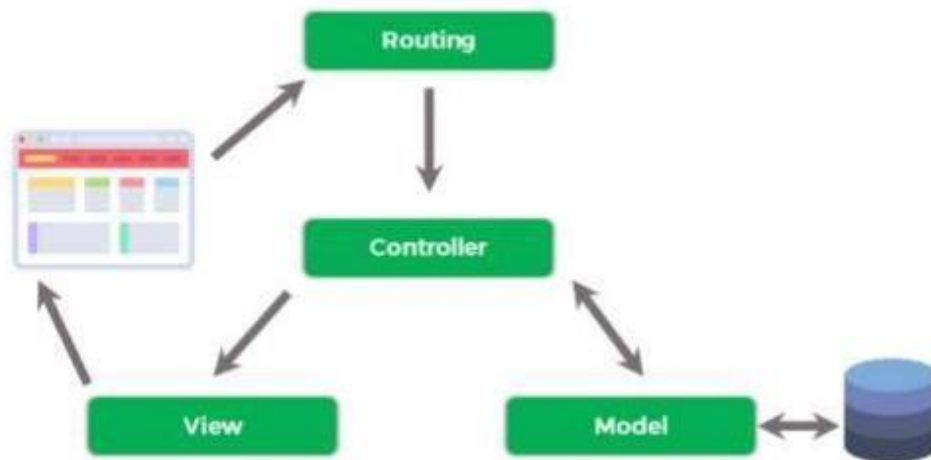


Figure 4.1: Request Lifecycle. [3]

Our application is Dynamic that will run by using internet. In back end design are using database like MySQL. Back end design working for the store date for further need. To make this back end application was using PHP and MySQL. There are lot of table in database which is connected with the PHP server where all the date are store.

## E-R DIAGRAM:

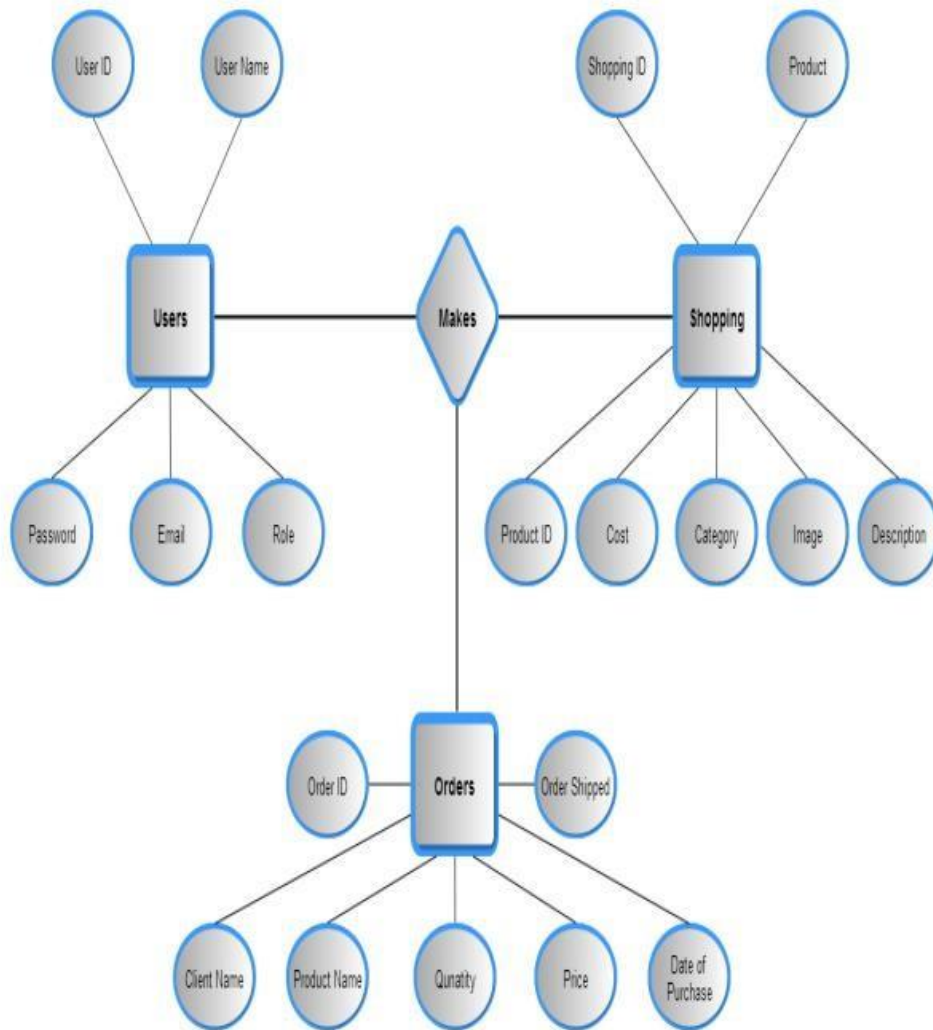


Fig 4.2: ER Diagram

E-R (Entity Relation) diagram is connection between interrelated things. Like users must have the unique id to find out who is this and also user have password to login with their account.

DBMS tables: The following figure shows Online Shopping System DBMS table.

Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/> admins	★ Browse Structure Search Insert Empty Drop	3	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/> boxes_section	★ Browse Structure Search Insert Empty Drop	3	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/> cart	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/> categories	★ Browse Structure Search Insert Empty Drop	4	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/> customers	★ Browse Structure Search Insert Empty Drop	2	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/> customer_orders	★ Browse Structure Search Insert Empty Drop	8	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/> payments	★ Browse Structure Search Insert Empty Drop	4	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/> pending_orders	★ Browse Structure Search Insert Empty Drop	6	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/> products	★ Browse Structure Search Insert Empty Drop	12	InnoDB	utf8mb4_general_ci	32.0 KiB	-
<input type="checkbox"/> product_categories	★ Browse Structure Search Insert Empty Drop	5	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/> slider	★ Browse Structure Search Insert Empty Drop	4	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<b>11 tables</b>	<b>Sum</b>	<b>51</b>	<b>InnoDB</b>	<b>utf8mb4_general_ci</b>	<b>192.0 KiB</b>	<b>0 B</b>

Figure 4.3: System DBMS tables.

In this database table see that there are admins table products categories, customer details, payment option while ordering products etc.

### 4.3 Interface(interaction) Design and UX

Customer Experience will show the success of a product in the market. Interface design is the most valuable part of an application because if the application is easy to use to user, then user can attract with this application to work with as a customer. [4]

### 4.4 Implementation Requirements

To implementation this application needs some software and tools with the programming languages. Like at first need to design this site before working with the programming language and using photoshop to design first. Then using HTML5 and CSS3 to design front end with the attraction module. Then using JavaScript and jQuery to the work with the right angle. After all of this done for the front end design need to work with back end site for store date and working properly. For storing data was using MySQL and PHP for the back end site. To complete all this above process was using Brackets IDE.

## CHAPTER 5 Implementation and Testing

### 5.1 Database Operation

To make an application fulfill we are using DBMS. And MySQL is for storing data to the server. Some screenshot I have mentioned below with the figure number.

	payment_id	invoice_no	amount	payment_mode	ref_no	code	payment_date
<input type="checkbox"/> Edit Copy Delete	6	290185237	290185237	Payoneer	12234	177265	12/2/2020
<input type="checkbox"/> Edit Copy Delete	8	1977845580	0	Payoneer	2147483647	177265	12/2/2022
<input type="checkbox"/> Edit Copy Delete	9	838328830	0	Paypoll	12234	2345	12/2/2023
<input type="checkbox"/> Edit Copy Delete	10	355570248	0	Paypoll	0	2345	12/2/2021

Fig 5.1: Payment table implementation

In payment table, if someone wants to pay while ordering products then the payment option will open to pay for them. If pay online they will get a transaction ID to fill up the transaction table to complete the payment. Other payment option will be there to pay with the instruction how to pay.

	order_id	customer_id	due_amount	invoice_no	qty	size	order_date	order_status
<input type="checkbox"/> Edit Copy Delete	16	12	158	290185237	2	Small	2021-01-21	Complete
<input type="checkbox"/> Edit Copy Delete	23	12	94	355570248	2	Small	2021-04-24	Complete
<input type="checkbox"/> Edit Copy Delete	24	12	26	429536527	1		2021-04-24	pending
<input type="checkbox"/> Edit Copy Delete	20	14	47	588421189	1		2021-03-23	pending
<input type="checkbox"/> Edit Copy Delete	21	14	50	588421189	1		2021-03-23	pending
<input type="checkbox"/> Edit Copy Delete	22	14	52	838328830	2	Large	2021-03-23	Complete
<input type="checkbox"/> Edit Copy Delete	25	12	26	1011686239	1		2021-04-24	pending
<input type="checkbox"/> Edit Copy Delete	17	12	30	1394228724	1	Small	2021-01-21	Complete
<input type="checkbox"/> Edit Copy Delete	19	12	26	1642680849	1	Small	2021-01-21	pending
<input type="checkbox"/> Edit Copy Delete	18	12	60	1977845580	3	Medium	2021-01-21	Complete

Fig 5.2 Customer's Order Table. (Implementation)

In that table, if customer order products, then they will see the products details for how many products they ordered to take from our services. Also, can delete some products or add something they wants.



+ Options				cat_id	cat_title	cat_desc
<input type="checkbox"/>	Edit	Copy	Delete	1	Men	This is for men
<input type="checkbox"/>	Edit	Copy	Delete	2	Women	This is for women
<input type="checkbox"/>	Edit	Copy	Delete	3	Kids	This is for kids
<input type="checkbox"/>	Edit	Copy	Delete	4	Other	This is for others

Check all    With selected:    Edit    Copy    Delete    Export

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

Figure 5.3: Implementation of Products Categories Table

The products categories table, customer will see the option to choose the category certainly which products to buy.

+ Options									
admin_id	admin_name	admin_email	admin_pass	admin_image	admin_country	admin_about	admin_contact	admin_job	
2	Motallab	m@gmail.com	m12345	m.png	Bangladesh	We are very responsible to serve your product care...	01775171688	Islamic Scholars	<input type="checkbox"/>
4	Mashrur Rahman Tamim	mashrur15-8679@diu.edu.bd	1234567	IMG_20191226_114630.jpg	Bangladesh	Good at Web Design	01775171684	Web Designer	<input type="checkbox"/>
5	Akash	a@gmail.com	1234	22812807_725856010942978_1359262198_o.jpg	pakistan	Good at writing	123456	Writer	<input type="checkbox"/>

Check all    With selected:    Edit    Copy    Delete    Export

Figure 5.4: Admin Table. (Implementation)

For admin, they will add products or delete products with products details like price, quantity, available etc. Also manage the customer to give the products.

- Options										
product_id	p_cat_id	cat_id	date	product_title	product_img1	product_img2	product_img3	product_price	product_keywords	
40	5	2	2021-01-21 17:50:42	g polos tshirt 1	g-polos-tshirt-1.jpg	g-polos-tshirt-2.jpg		44	t shirt	<input type="checkbox"/>
41	5	1	2021-01-21 17:52:19	grey-man 1	grey-man-1.jpg	grey-man-2.jpg	grey-man-3.jpg	66	t shirt	<input type="checkbox"/>
42	1	1	2021-01-21 17:53:34	levis Trucker Jacket	levis-Trucker-Jacket.jpg	levis-Trucker-Jacket-2.jpg	levis-Trucker-Jacket-3.jpg	55	jacket	<input type="checkbox"/>
44	1	1	2021-01-21 17:55:54	Merlin Engineer Jacket	Merlin-Engineer-Jacket-2.jpg	Merlin-Engineer-Jacket-3.jpg	Merlin-Engineer-Jacket.jpg	65	jacket	<input type="checkbox"/>
45	2	4	2021-01-21 17:57:20	Mont Blanc Belt man	Mont-Blanc-Belt-man-1.jpg	Mont-Blanc-Belt-man-2.jpg	Mont-Blanc-Belt-man-3.jpg	79	Accessories	<input type="checkbox"/>
46	2	2	2021-01-21 17:58:34	women diamond heart ring	women-diamond-heart-ring-1.jpg	women-diamond-heart-ring-2.jpg	women-diamond-heart-ring-3.jpg	38	Accessories	<input type="checkbox"/>
47	4	2	2021-01-21 17:59:50	Red Winter coat	Red-Winter-jacket-1.jpg	Red-Winter-jacket-2.jpg	Red-Winter-jacket-3.jpg	30	coat	<input type="checkbox"/>
48	3	3	2021-01-21 18:01:28	Man Adidas Suarez Slop On	Man-Adidas-Suarez-Slop-On-1.jpg	Man-Adidas-Suarez-Slop-On-2.jpg	Man-Adidas-Suarez-Slop-On-3.jpg	47	shoe	<input type="checkbox"/>
49	4	2	2021-01-21 18:03:44	waxed cotton coat woman	waxed-cotton-coat-woman-1.jpg	waxed-cotton-coat-woman-2.jpg	waxed-cotton-coat-woman-3.jpg	20	coat	<input type="checkbox"/>
50	1	2	2021-01-21 18:05:13	product_front	product_front.jpg	product_hang.jpg		48	jackets to activa	<input type="checkbox"/>

Figure 5.5: Products Table. (Implementation)

Every product has the unique id to identify the specific products to check the authority or the admin for further need. Also, for customer knowing this that this is my products id and I will get this product with this.

Options									
customer_id	customer_name	customer_email	customer_country	customer_city	customer_contact	customer_address	customer_image		
<input type="checkbox"/>	12	Mottalab	mot@gmail.co45	sothkoria	Delhi	12362	london	B645C6BA-928A-45FC-9F8B-0E4427FDD460.png	<input type="checkbox"/> Edit Copy Delete
<input type="checkbox"/>	14	Tamim Rahman	tam@gmail.co45	India	Delhi	01775171685	Mirpur 10	_MG_5504 (7).JPG	<input type="checkbox"/> Edit Copy Delete

Figure 5.6: Customers table. (Implementation)

This section will see the admin to check that how many customers ordered my products or like or etc.

## 5.2 Front-end Design Implementation

To complete our project, we need some technology like HTML5, CSS3 jQuery, JavaScript, Bootstrap etc. To make our application attraction to the users. This design for the user attraction to see our application use to easy. Some screen shot I showed below. For the customer the most important thing is the front end design which is the connected to the user and feel attraction for the customer. If front end design is user friendly and easy to use that time user can access easily and buy products from this application. There will be some products for the first page called home page which see first when user enter the system. Also see the offer option to get valuable offer and less products price from the front page of the systems. There are some figures that shown below.

### 5.2.1 Home Page

Home Page, is the first page for the users to attract in our services.

## OUR LATEST PRODUCTS

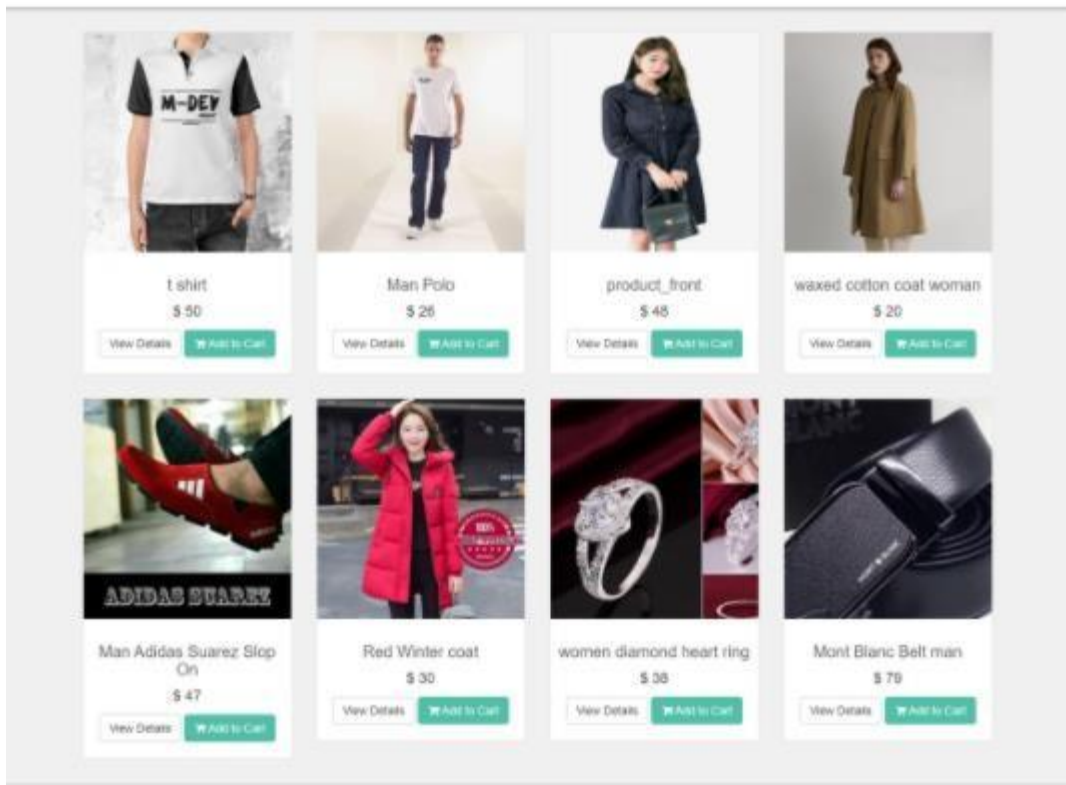
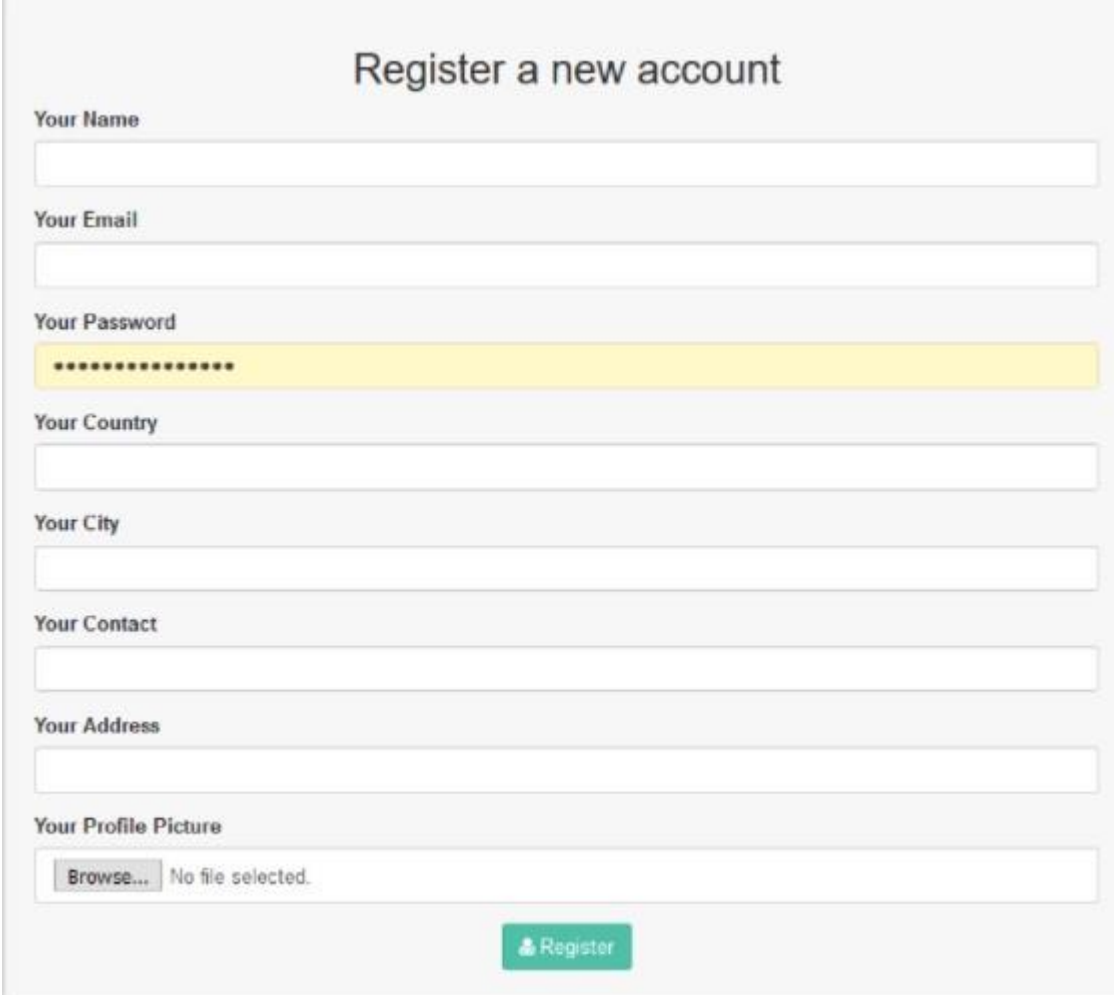


Figure 5.7: Home Page

Actually, home page is the page that if the user first enters this system the they will see the first page which is named home page. There, they will the most sold products and offers to get products with less money.

## 5.2.2 Registration Page

Registration is needed to customer for order any kind of products take all the advantages from the authority.

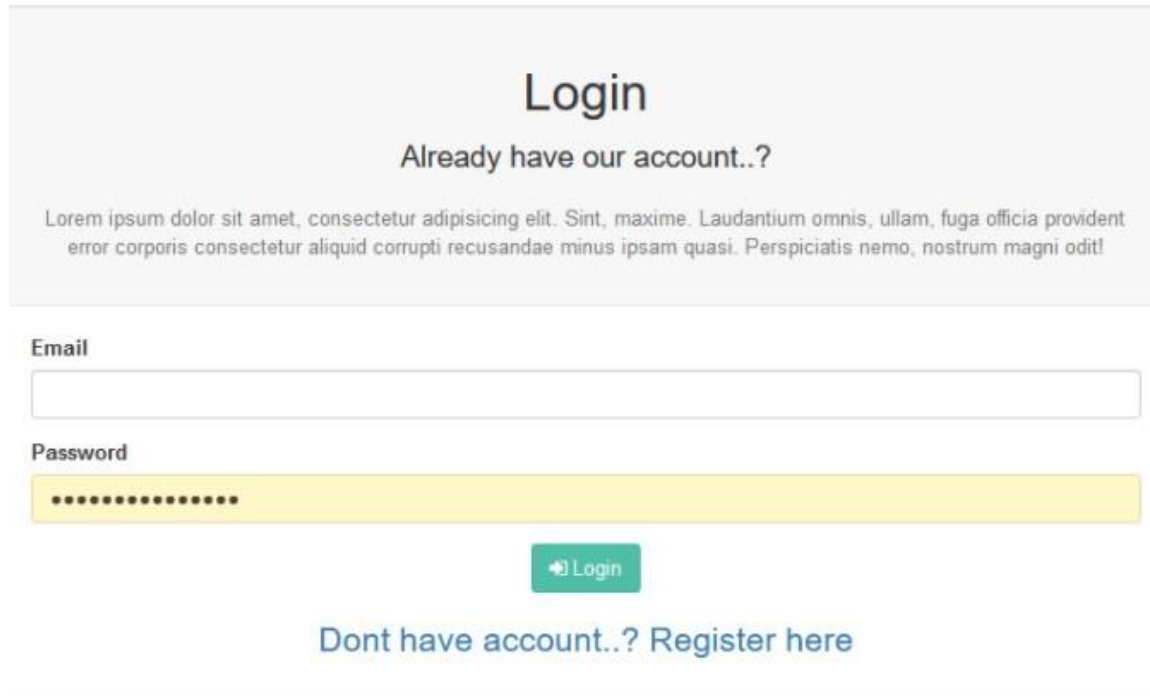


The image shows a user registration form titled "Register a new account". The form contains several input fields: "Your Name", "Your Email", "Your Password" (with a yellow background and masked characters), "Your Country", "Your City", "Your Contact", "Your Address", and "Your Profile Picture" (with a "Browse..." button and "No file selected." text). A green "Register" button is located at the bottom center of the form.

Figure 5.8: User Registration Page

In this section, user have to register first if they order some products to buy. But user can see the products details without log in. Just for ordering process have register then login with their account. User will log in by their valid email or Phone number.

### 5.2.3 Login Page



The image shows a user login page with a light gray background. At the top, the word "Login" is centered in a large, dark font. Below it, the text "Already have our account..?" is centered. Underneath is a line of placeholder text: "Lorem ipsum dolor sit amet, consectetur adipisicing elit. Sint, maxime. Laudantium omnis, ullam, fuga officia provident error corporis consectetur aliquid corrupti recusandae minus ipsam quasi. Perspiciatis nemo, nostrum magni odit!". Below the text are two input fields: "Email" and "Password". The "Email" field is a simple white box with a gray border. The "Password" field is a yellow box with a gray border, containing ten black dots. Below the password field is a green button with a white arrow pointing right and the text "Login". At the bottom, there is a blue link that says "Dont have account..? Register here".

Figure 5.9: User Login Page

After the registration user need to login. Both admin and user have to login if he/she wants to get products and upload. If user forget the password, then they will get this by the forgot password clicking option. That time they will get an email that reset password.

### 5.2.4 User Dashboard Page

After the login to the system then user can see the dashboard option and they can find out what they need at present or later. Then they click the dashboard option to see the products.

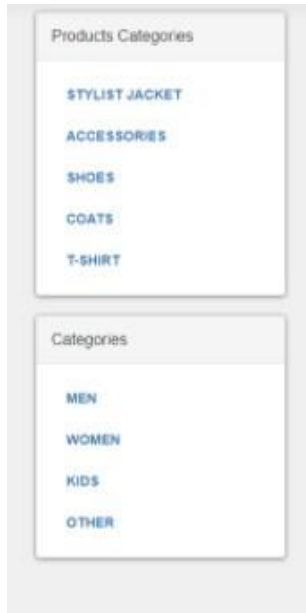


Figure 5.10 User Dashboard

### 5.2.5 Admin Dashboard Page

After login as an admin, they can see their own details in admin panel. They can add/delete products by their own. They can manage order and give the delivery fast to customer. Also, can edit their profile up to date. See the customer feedback and comments also they can reply all the feedback and comments section by their own panel.

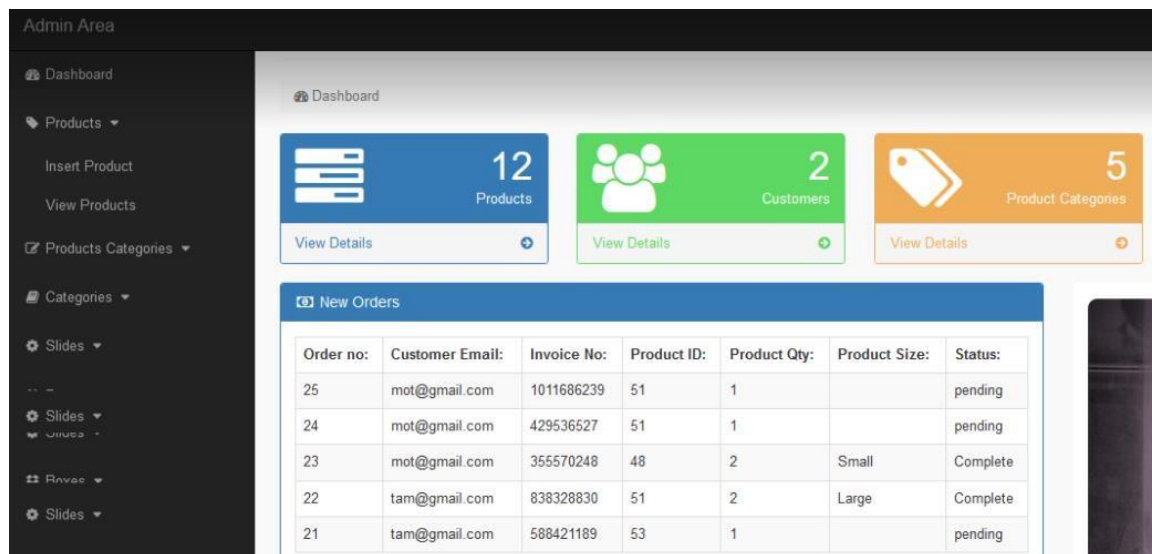
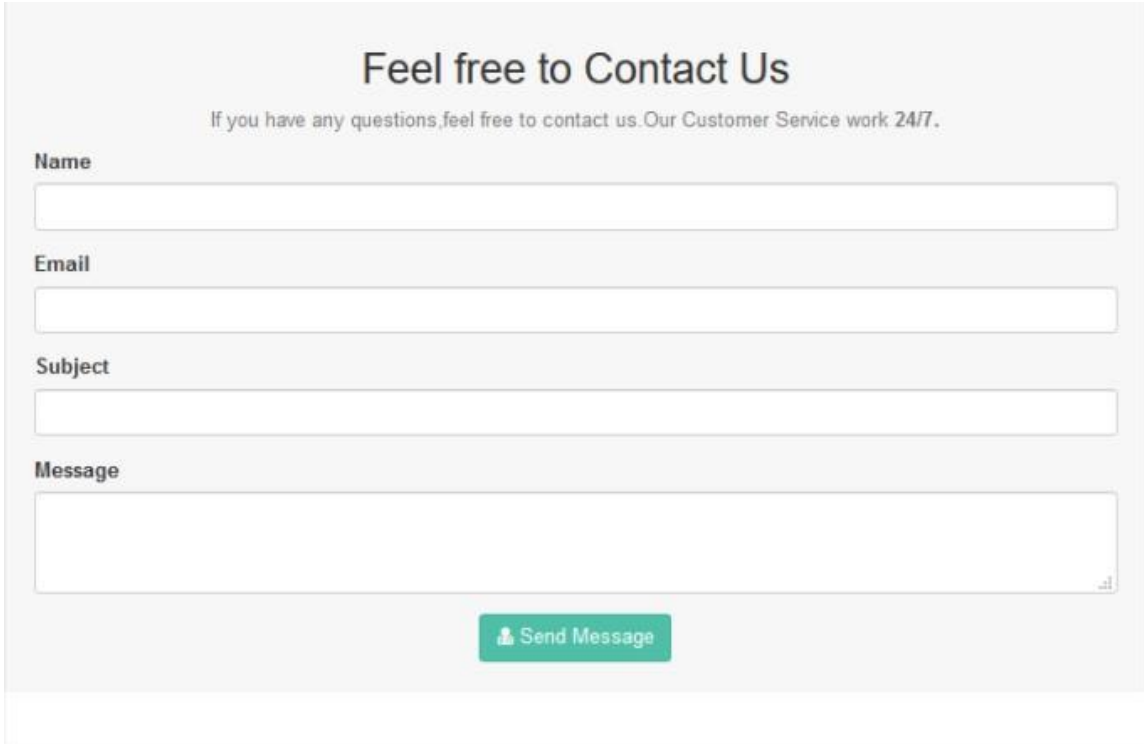


Figure 5.11: Admin Dashboard

## 5.2.6 Contact with Admin/Authority

Sometimes user need to contact with authority/admin for some reason like they have facing some trouble.



The image shows a contact form titled "Feel free to Contact Us". Below the title is a subtitle: "If you have any questions,feel free to contact us.Our Customer Service work 24/7.". The form contains four input fields: "Name", "Email", "Subject", and "Message". At the bottom of the form is a green button labeled "Send Message" with a person icon.

Figure 5.12: Contact to the authority

## 5.2.7 Payment Offline

We know that there so many ways to pay the order. But we also keep the offline payment to the users. When user get their products at hand that time, they can pay offline and after few hours they will get notification the confirmation by authority. Also, they can pay by bank with check book by account number from authority or admin.

---

## Pay Offline Using Method

If you have any questions, feel free to [Contact Us](#). Our Customer Service work 24/7.

Bank Account Details:	Easy Paisa, UBL Omni, Mobi Cash Details:	Western Union Details:
Bank Name: UBL   Account No: 180-839-032   Branch Name: Dhaka   Branch Code: 1498	NID #980-231-907   Mobile No: 01775171684   Name: Md. Mashrur Rahman	Real Name: Md. Mashrur Rahman Tamim   Mobile No: 01775171684 Country: Bangladesh   Name: Md. Mashrur Rahman   NID #980-231-907

Figure 5.13: offline payment systems.

### 5.3 Testing Implementation

If the application is completed then need some specific test implementation. Like for the registration system is working properly find out first then login part. After this testing need to make sure that payment method is working properly then go the other section to test.



## **Chapter 06**

### **Future scope**

#### **6.1 Discussion and Conclusion**

The success will come with the patience, hard work and with consistency which is proved by our work with the team member. After the longtime of discussion, thinking, add/delete some information and also implantation, we the last stage of our project. “Online Shopping System” is for the people who need trustable and reliable shopping system in Bangladesh and also take the product fast. We are the people who always works for the people by our own works. By using our shopping system people will be happy with our services.

#### **6.2 Scope for the future**

Develop the payment systems in near future for the customer to pay easily. After ordering products customer will see the products that where is their ordering products. For specifically most advanced tracking system with google map. Will make advances search for the products selection option. The most important things is that will make this system with AI based recommendation for the user.

#### **6.3 Limitations**

Though have completed this project, also have some limitations, like as a fresher entrepreneur the security problem is the first limitation for us. Then lack of privacy. Technical problem will be facing and also fear. Another problem is to face social obstacle to go forward. Last important thing is that the financial limitation is another problem.

## Appendix

We have learnt during the work on “Online Shopping System” is that a good team would be one with the high performance and good relationship. In the beginning we were confident to fulfill our task. Also, think that we are very good as a team. We are hard working person in our group and it’s proved that completed our project in time. After complete our project, we observed that if group members bonding and understanding is good then the performance also be good. At last, we have faced so many problems when we were trying to develop this project successfully, we solved all kind of problems together.

## References

- [1] Wikipedia. (2021, at 20:02, 13 April). *Business process modeling*. Retrieved from Wikipedia:  
[https://en.wikipedia.org/wiki/Business\\_process\\_modeling](https://en.wikipedia.org/wiki/Business_process_modeling)
- [2] al, M. e. (2006). *Use case diagram*. Retrieved from Wikipedia:  
[https://en.wikipedia.org/wiki/Use\\_case\\_diagram](https://en.wikipedia.org/wiki/Use_case_diagram)
- [3] Black, R. (2002). *System testing*. Retrieved from Wikipedia:  
[https://en.wikipedia.org/wiki/System\\_testing](https://en.wikipedia.org/wiki/System_testing)
- [4] Eyal, N. (2014). *User experience design*. Retrieved from Wikipedia:  
[https://en.wikipedia.org/wiki/User\\_experience\\_design](https://en.wikipedia.org/wiki/User_experience_design)

## online shopping final

### ORIGINALITY REPORT

<b>16%</b>	<b>16%</b>	<b>0%</b>	<b>13%</b>
SIMILARITY INDEX	INTERNET SOURCES	PUBLICATIONS	STUDENT PAPERS

### PRIMARY SOURCES

<b>1</b>	<b>Submitted to Daffodil International University</b> Student Paper	<b>12%</b>
<b>2</b>	<b>dspace.daffodilvarsity.edu.bd:8080</b> Internet Source	<b>3%</b>
<b>3</b>	<b>dspace.library.daffodilvarsity.edu.bd:8080</b> Internet Source	<b>1%</b>
<b>4</b>	<b>Submitted to Arab Open University</b> Student Paper	<b>&lt;1%</b>
<b>5</b>	<b>digitalcommons.usu.edu</b> Internet Source	<b>&lt;1%</b>
<b>6</b>	<b>eprints.mdp.ac.id</b> Internet Source	<b>&lt;1%</b>
<b>7</b>	<b>ukdiss.com</b> Internet Source	<b>&lt;1%</b>
<b>8</b>	<b>www.ukessays.com</b> Internet Source	<b>&lt;1%</b>