

E-COMMERCE SOLUTION FOR A NEW STARTUP FOR ONLINE SHOPPING

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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

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APPROVAL

This Project/internship titled “E-commerce Solution for a new Startup for Online Shopping”, submitted by **Md.Zahid Hasan Sohan, ID No:171-15-8697 & Umme Salma ID: 171-15-8578** 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 31st May 2021.

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DECLARATION

We hereby declare that, the work presented in this project is done by us under the supervision of Mr. Gazi Zahirul Islam, Assistant Professor of Department of Computer Science and Engineering, Daffodil International University, in partial fulfillment of the requirements for the degree of Bachelor of Science in Computer Science and Engineering. We are declaring this report is my original work. We ensure that neither this report nor any part has been submitted elsewhere for the award of any degree.

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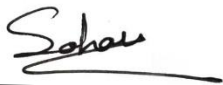
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ABSTRACT

“E-commerce Solution for a new Startup for Online Shopping” is a system intended to support online merchants & track their work. In order to develop this system another similar existing system at the beginning & after finding their limitation, and overall design was proposed with necessary features. Later HTML, CSS & PHP were used to develop this system & MYSQL was used in the database. After few trials in localhost, the system is accepted & presented. This system could be a great help not only merchants but also will be easier for clients to purchase, track their orders & online payment also. At present this system in line. But our future plan is to make life & to develop an android app for this system.

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CHAPTER 01

INTRODUCTION

1.1 Introduction:

Now a days, online shopping is more popular & one of the most hyped medium to trade. So, we created this web application. Users of this system will be able to use our web application. Users of this system will be able to use our web application features. The sales that received the dashboard, product category, basic configuration, order details & basic information can be seen. Trying to bring the whole buying & selling system under digital technology in a very easy way. There are two types users who can access it: merchants & Clients. To control the whole system this app will make easier for clients to choose the preferred item (clothing items, gift items etc.)

1.2 Motivation:

While we build this system, we are inspired by many things. We find many reasons to move forward & to solve this problem.

Now there are many online sellers & websites but the maximum is not properly buildup & trusted. In this system clients can suggest their preferred item to stock can complain or give advice about service (product quality, delivery time, etc.) also, they can search for their preferred items easily. Above facilities are rare in another web system.

1.3 Objectives:

The key object of this project is given below:

- Login must be provided for all users.
- Trying to provide best OSMS (Online shopping management system) for all clients and merchants.
- Keeping the proper schedule for all OSMS systems updated in timely manner.

- Provide a personal profile for clients where they can login using a username & password. They also know their order details.
- The merchants have no fear of losing the product database and any kind of old information will be easy to find.
- Providing a special schedule so that the merchants can see how much he/she is ordered.
- Provide a platform for all users to schedule product deliveries & when clients will received and paid.
- The OSMS admin needs to provide a platform so that clients/ merchants can update the website from anywhere with internet access.

1.4 Expected Outcome:

We are going to create a website. Where we are trying to create & reduce certain features on results. Which will contain information. We are divided all the information according to categories as like customized mugs, eclectic items, food item etc.

- Customized mug contains mug name (Birthday, special day, profession), mug size, mug quantity, Client's name, distribution type, address, number, payment method and information.
- Clothing item contains gents, women & baby's sector, Sari, Kamiz, Kurti, Panjabi design, quantity client's information material information size etc.
- Admin or merchant can create new models, create new categories & control applications.

Thus, without this project the result would be to develop a system that would provide service

1.5 Report Layout:

This has been done in five chapters. Different parts of each chapter are discussed in detail.

Chapter 1: Introduction

In this chapter we have discussed about the publication management system, motivation, of our project, its objectives and expected outcome.

Chapter 2: Background

This section deals with application related tasks, similar tests and applications.

Chapter 3: Requirement Specification

This section illustrates Business Process Modeling, Requirement Collection and Testing, Case Display and Illustration, Intelligent Data Modeling and Planning Prerequisites.

Chapter 4: Design Specification

This section discusses the front-end configuration, back-end structure, connection planning and UX and prerequisites for implementing our initiative.

Chapter 5: Implementation and Testing

This section discusses database implementation, front-end structure, connectivity. The results and report of the application have also been discussed.

Chapter 6: Conclusion and Future Scope

This section discusses our work completion and future limits.

CHAPTER 02

BACKGROUND

2.1 Introduction:

Online shopping platform is one of the most popular startups of this period. [1]
We currently need a shopping management system for this startup. Online shopping management is a web-based project management system.

In this chapter we are going to discuss the comparative, present, future phenomena of shopping management methods. Here we have tried to discuss the management solution of online shopping management. Now we are trying to meet our goal of this online shopping management system. By doing this we are going to face many challenges of online shopping management system.

2.2 Related Works:

The article can now be considered as online content but our solution is
Making the online shopping system easier for new startups and merchants. The advantage of our launched application is that merchants can easily upload, update, edit, remove their products on the website using the admin panel.

Also using our application, merchants can easily save the data of orders coming from their clients and deliver the message related to the new product easily later.

Clients can easily order the product, select, remove the order by looking at the details of the items of their choice. They will have the opportunity to pay for their products through online payment.

This web system is known to be easily accessible to all users.

2.3 Comparative Studies:

Publication Online shopping system is now a very popular web system. There are many web systems for online shopping but there is no such website for this type of application as ours. So, we can say that this is a single & first application that no one has ever seen before. Some, online E-commerce system have their own website, but it is not like that. In our website, we have smooth admin management system, client can track their order details until they will not get the product. Client can complain or give feedback about product. Client can see details about product and in this process, we have a system record.

2.3.1 Comparison with related applications:

A comparative analysis of its application is shown in Table 2.1.

Table 2.1: Comparative analysis Table

	Product List	Delivery Option	Returned	Product Details	Feedback/Complain	Track Order
Shop Shajgoj	Yes	Yes	Yes	Yes	Yes	No
BD Budget Beauty	Yes	Yes	No	No	No	No
Belasea.BD	Yes	Yes	No	No	No	No
The mall	Yes	Yes	Yes	Yes	No	No

In this section, we are going to try making the difference between the other web system with this system in above way. We can define this table by definition & can find it very easily which will make this web application easy to understand.

2.4 Scope of the Problem solution:

This web page is most trusted web system. Here people or client's information is being secured. If any client cancels the order admin panel are trying to know the reasons by communicate with client and this whole data will be stored in the database. Which no one except admin can delete. Client can get him/her best product by searching.

2.4.1 Scope of the Problem:

Many clients are illiterate or have no idea about how to access a web system or how to login. So, they are unfamiliar with running this application on devices. So, they will face a big dilemma in their first stage. And this is the common problems in this management system. But we think it will become a habit to drive.

2.4.2 Scopes:

If we continue to run this application this way, we will be very popular and well-known e-commerce site. One day we can deliver the product internationally through this application. There are some common problems that if we solve it, we can succeed & easily reach our goal.

CHAPTER 03

REQUIREMENT SPECIFICATION

3.1 Business Process Modeling:

This system is going to represent the whole workflow in Business Process Model (BPM). Its main goal is to present a "flow diagram". It is a business process model that graphically identifies the ability to understand internal business processes [2]. The graphical notation will also ensure us active business. Online Shopping management System (E-commerce Solution for a new Startup for Online Shopping) shown in figure 3.1

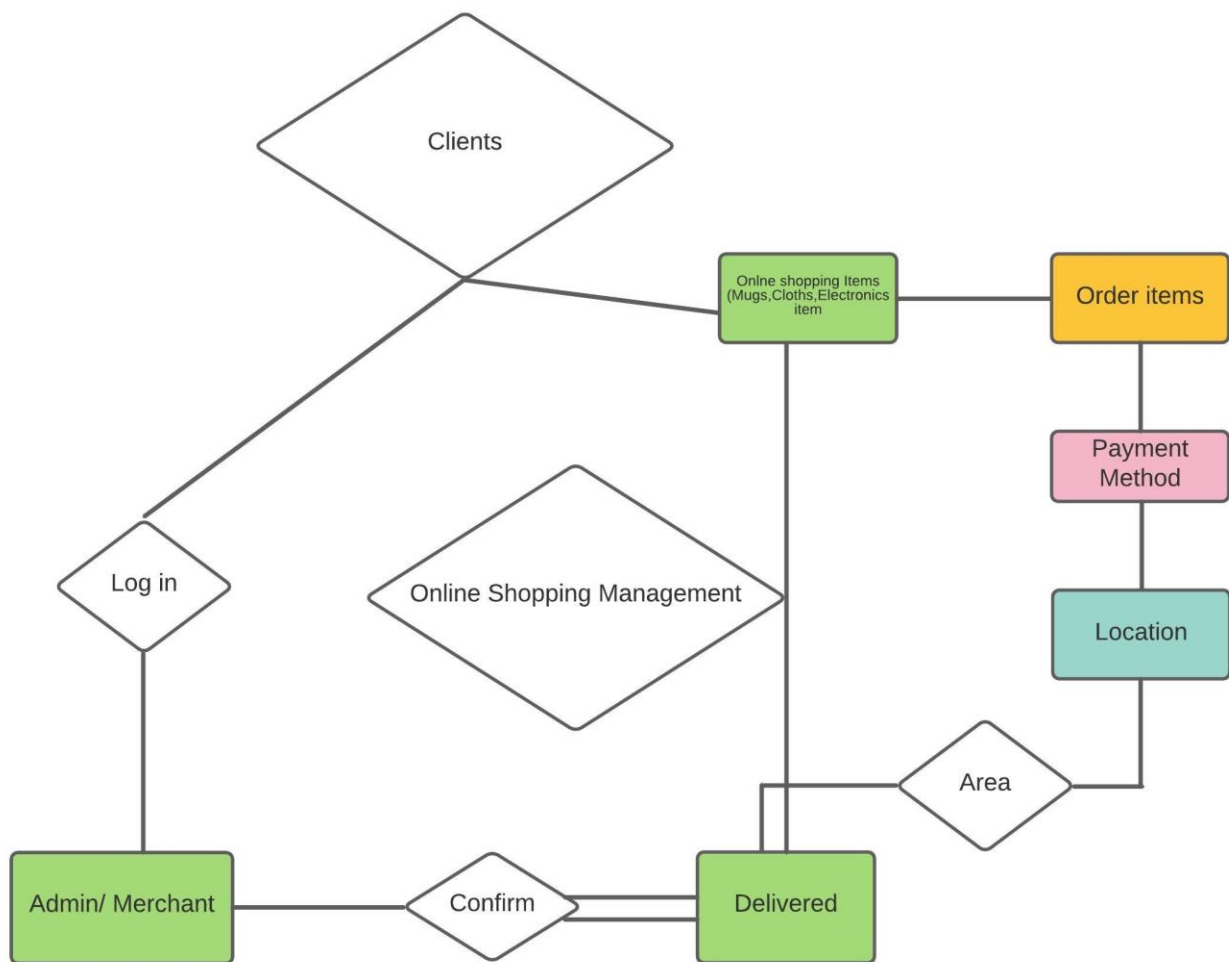


Figure 3.1: BPM of Online Shopping management System

3.2 Requirement Collection and Analysis:

This is a very important part of collecting requirements and applying them to the analysis. For the development of this application, we are now going to describe some of the requirements mentioned below.

3.2.1 Software Requirements

To build up this web application, we used following software:

- Operating System: windows & Linux.
- System Design: Adobe Photoshop, Illustrator.
- Language: PHP, HTML, CSS, JavaScript.
- Framework: Bootstrap 4 (CSS).

- Editor: Sublime Text, Eclipse, Postman.
- Device: computer.
- Software Requirement for running the app:
- Operating System: computer, Laptop.

3.2.2 Hardware Requirements

- Processor: Intel Core i3.
- RAM: 4GB
- Space on Disk: Minimum 0.2GB

3.2.3 Functional Requirements

From a complete overview of our system, it should have its huge functional requirements, registration section, and login, sign in/out section, approval section, maintenance and updates section where a dashboard for maintaining profiles that individuals can access. There are more options on the dashboard as we will know who is entering it.

3.2.4 Non-functional Requirements:

Non-functional requirements help or assist more efficiently. Perform performance checking, memory retrieval, smooth operation and load on our app as soon as possible. We need to make sure that the application is designed by UI and user friendly so that the user can easily understand and make the application more beautiful.

3.3 Use Case Modeling and Description:

The case diagram used is also called a unified modeling language that graphically represents system action. Each activity is displayed in the kind of image that we are going to get the knowledge of the whole activity of the actor. A usage case displays and designs a list of actions, roles, and activities of the user or merchants in a short period of time. In the case of use, the diagram actors play the main role in the various activities that are performed, and in the case of use, the figure has different types of actors in which each actor performs different actions. The application interacts with people, merchants. The image does not clearly explain the whole process

in terms of its use but we gain vast knowledge from it or for this type of image. It is able to clearly suggest or explain the whole process of your actor's activity [3]. Now we see the case diagram of all the uses of our application which is really easy for us to understand. In fact, the admin is not the right user who manages all the systems and observes the whole process admin indirectly and indirectly which is easier to use.

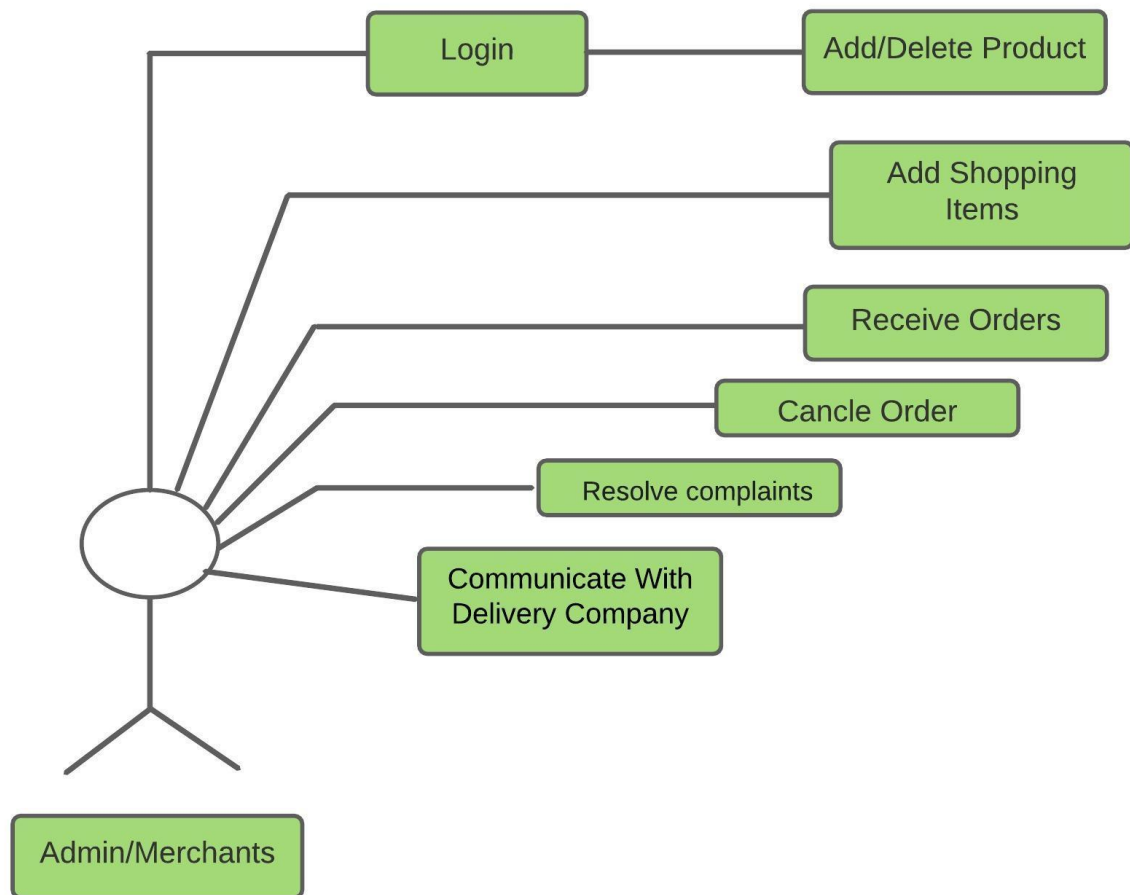


Figure: 3.2 Use Case Diagram for Admin/ Merchants

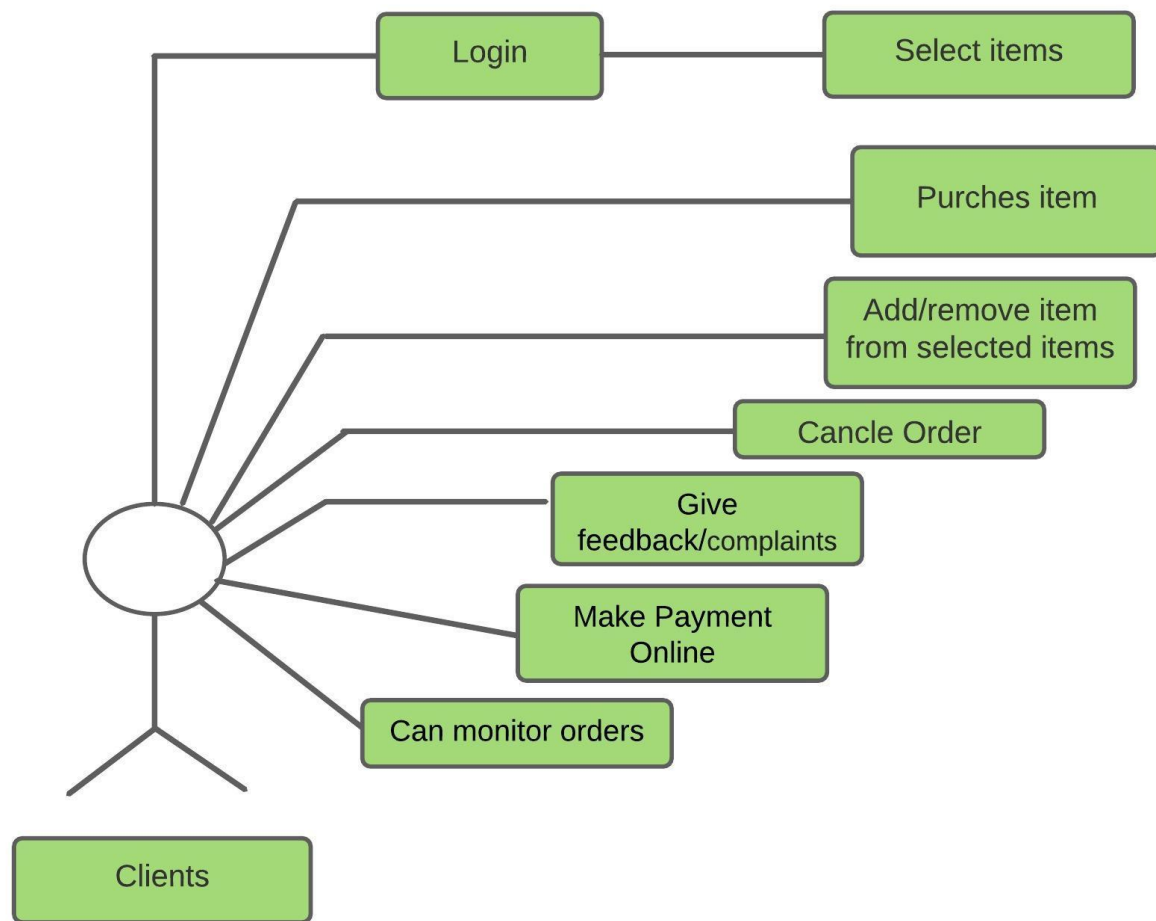


Figure: 3.3 Use Case Diagram for Clients

Here figure 3.2 and 3.3 we have been able to show & explain the image respectfully for admin/merchants and clients how they can use or what they can use. Only admins can access the application, update admin profiles, admins can store their personal information here. Here the admin is the head of this application, the admin can edit it, the admin can check, the admin can update, the admin can delete, in a word, the admin can do everything. The admin will also be able to verify and sort all the information in this application.

3.4: Local Data Model:

This diagram is part of the flowchart. Which describes in detail how the user and the reader need to be connected to each other. One of the biggest drawings of these images is to use them to draw relationship diagrams in software engineering, computer engineering, business, education thesis.

and research. This field can be easily described using this diagram. Users will easily understand the whole system in a few times. It is also known as ER or ERD model. Which they can make a set of diamonds, ovals, rectangles, connecting lines together with the [4] sign.

The Data Structure Diagram (DSD) is related to this. The ER diagram is able to illustrate the application of this application. We can now fully see this process and understand how we have also described the whole application in the ER diagram of the application. Below we also give the diagram of the application

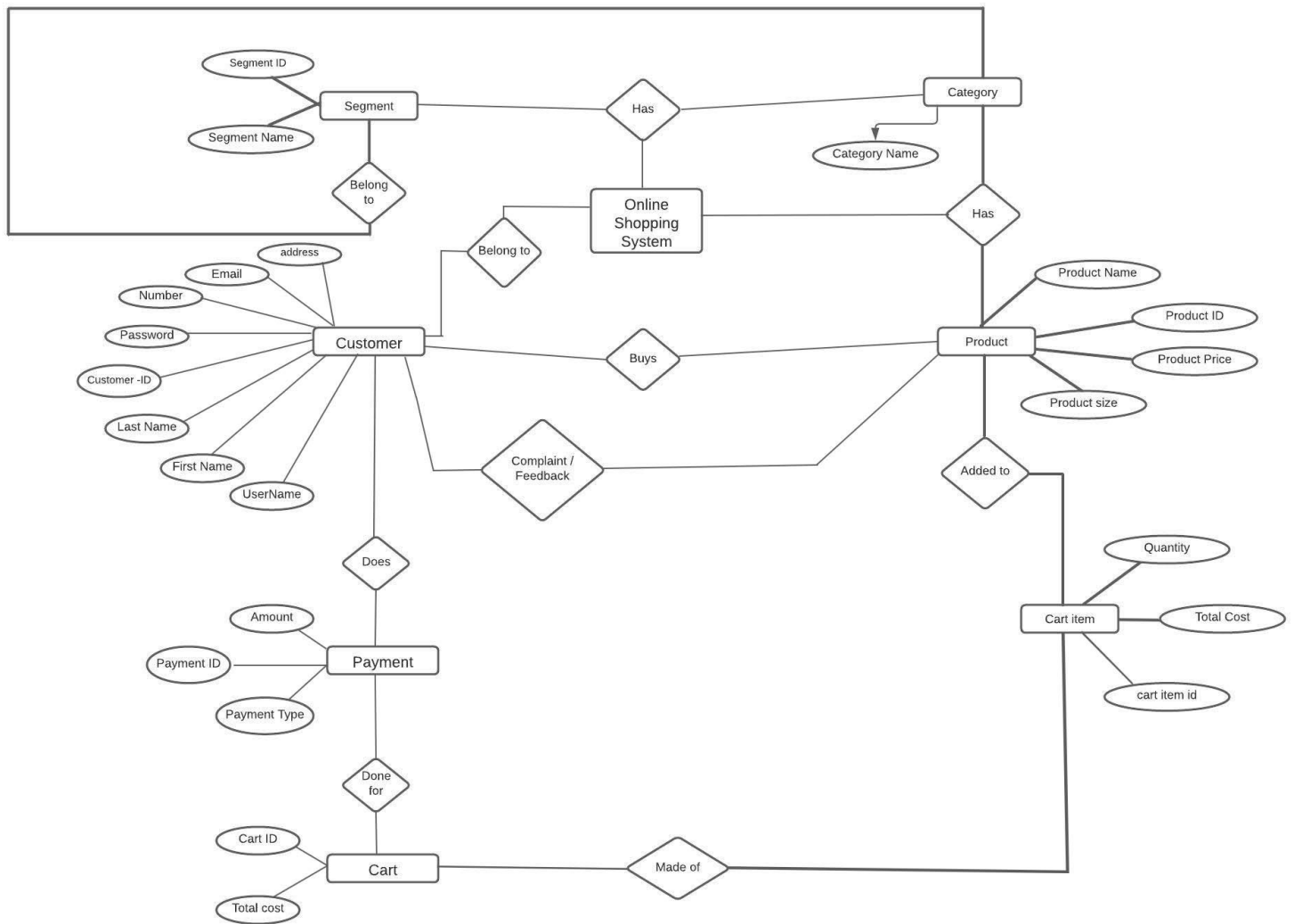


Figure: 3.4 E-R Diagram of Online Shopping management System

Figure 3.4 through this application we have been able to explain how clients & admin can be easily integrated. We are going to try it making easier. We have focused on how the clients can order the product easily through application. We have tried to explain to the merchant & the clients whether the shopping is trustworthy. The admin can run this application perfectly.

3.6 Design Requirements:

Finding the design requirements of this whole application and finishing this application project was the most important task for us too. It was on the other side of development that the system was totally dependent on design. How this application will work is presented graphically.

The first admin will monitor it in full. And the admin can approve and reject any request.

Users will be able to view and read information about products and products details, merchants will be able to upload images of their own products, determine and update information about products, and only the main admin will be able to do so.

CHAPTER 04

DESIGN SPECIFICATION

4.1 Front-end Design:

In this online shopping management system (E-commerce Solution for a new Startup for Online Shopping), we have used this system in front-end and back-end processes. We have tried to create a beautiful design in this purchase system for clients. We have tried to simplify the user-friendly process by managing it. At the front-end back-end we want to try to make this web base management system a user-friendly management system in the process.

Now we have tried to draw a table for an overview of the system–

Table 4.1: Activity on the procedure

Serial No	Activity Name
1	Online Shopping management System
2	More options on system
3	Screen paper
4	System buttons
5	Merchants Management
6	Client Login
7	Delivered management
8	Overview management
9	Repair maintenance
10	AMP maintenance
11	User information
12	API on the system
13	Programming interface
14	View in JS
15	Java query

4.2 Back-end Design:

We are trying to make the system dynamic function related to the online management system. This method is what we use in data base management because the Online shopping management system has been tried to be solved in a user-friendly web application. This web application to our online management system is easy for users and we are going to try to make this method more friendly. Clients will not be able to access this application method through back-end design or framework systems or management systems. The controller/admin/merchants must be accessed by all files in the shopping system. It is an important system for application that has been tried to make drawing easier for model users. In all these combinations then this framework can be easily shown to everyone.

4.3 Interaction Design and UX

Online Shopping Management is the web-based app is easy to use. In this system for all organizations, they will also be able to know social online. The clients will know it more truthfully. Which we think is good to know about as well as through social media. No one in the system has done this yet. We think that the user will become more satisfied, when a user starts using the application. We also think that they will interact with the system of this application system. This model is good and responsive to the user in the system [5]. All users have a general idea that when users can use this application, the admin/merchants will be able to control the rules in the application on the system. This will make it so much easier for everyone.

Dashboard inter reaction design & UX

The dashboard is something that the user can easily see at first. Because it's a common thing. On the first page, you can see the name of the list of the product category, product list, the description of the product, when the product will arrive. If this application can be used correctly or randomly, then this application will be accepted by everyone.

Screen paper & UX

In this we can understand how the user is using. It has an access button. This application has some features of its own. Which we can easily get the users of the information of this Online Shopping in this system. Which the user can easily know and see.

User information & UX

In this process we can be accessed by all user's information in databases on this manage MT system it's important for all system's procedure.

Interaction & Design & UX

Users will be able to easily compile online shopping. Which other users can easily see this.

Trip maintenance & UX

When users purchase items, it will be delivered and they will be able to know and see where the order item is.

Implementing & Requirements

- The design we needed to implement in Sublime text, eclipse, java query.
- Needed to browser Google chrome, Firefox, slim jet
- We used to language are html, CSS, java query
- Some frame work we used to be Spring Boot (java), Bootstrap (java) 4, CSS, java query.
- SQL injection needed to protect with string escaping.

CHAPTER 05

Implementation and Testing

5.1 Implementation of Database

We have used DBMS or (MySQL) in this application. As we know MySQL is used for web browsers to connect to servers. We have demonstrated it below.

Shown below

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers												
	id	category_id	brand_id	product_name	product_price	product_quantity	short_description	long_description	product_image	publication_stat	created_at	updated_at
	1	1	1	White printed formal shirt	2200.00	20	White formal shirt for comfort and elegance. Design...	White formal shirt for comfort and elegance. Design...	product-images/0100153456(4).jpg	1	2021-03-21 17:55:22	2021-03-21 17:55:22
	2	1	1	Multi colored Mens Polo shirt Half	3000.00	30	Multi colored Mens Polo shirt Half	Multi colored Mens Polo shirt Half	product-images/PSH-bc-53112p-1495_2.gif	1	2021-03-21 17:57:16	2021-03-21 17:57:16
	3	2	2	Lenovo Legion Y540 15.6 Gaming Laptop 144Hz i7 16G...	88000.00	100	Lenovo Legion Y540 15.6 Gaming Laptop 144Hz i7 16G...	Lenovo Legion Y540 15.6 Gaming Laptop 144Hz i7 16G...	product-images/s-i500.jpg	1	2021-03-21 18:22:24	2021-03-21 18:22:24
	4	2	2	Lenovo G27Q 27" QHD IPS 165Hz 1ms Gaming Monitor +...	55000.00	500	Lenovo G27Q 27" QHD IPS 165Hz 1ms Gaming Monitor +...	Lenovo G27Q 27" QHD IPS 165Hz 1ms Gaming Monitor +...	product-images/s-i500 (2).jpg	1	2021-03-21 18:40:51	2021-03-21 18:40:51
	5	4	3	Mr. & Mrs Mugs	250.00	200	A mug is a type of cup typically used for drinking...	A mug is a type of cup typically used for drinking...	product-images/166017394_380602854;	1	2021-03-30 15:03:55	2021-03-30 15:03:55
	6	4	3	Mr. & Mrs Mugs	250.00	200	A mug is a type of cup typically used for drinking...	A mug is a type of cup typically used for drinking...	product-images/166017394_380602854;	1	2021-03-30 15:04:17	2021-03-30 15:04:17
	7	4	3	Mugs (Best mom ever)	200.00	100	A mug is a type of cup typically used for drinking...	A mug is a type of cup typically used for drinking...	product-images/165571155_379258810;	1	2021-03-30 15:07:51	2021-03-30 15:07:51
	8	4	3	Mugs (Theres no buddy like my brother)	200.00	100	A mug is a type of cup typically used for drinking...	A mug is a type of cup typically used for drinking...	product-images/165571155_379258810;	1	2021-03-30 15:09:19	2021-03-30 15:09:19

☐ Check all
 With selected:
 Edit
 Copy
 Delete
 Export

Figure 5.1: Local server for Online shopping management home page

Showing rows 0 - 0 (1 total, Query took 0.0012 seconds)

SELECT * FROM `users`

☐ Profiling [\[Edit inline\]](#) [\[Edit\]](#) [\[Explain SQL\]](#) [\[Create PHP code\]](#) [\[Refresh\]](#)

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Options

	id	name	email	password	remember_token	created_at	updated_at
☐ Edit ☐ Copy ☐ Delete	1	admin@gmail.com	admin@gmail.com	\$2y\$10\$KM7P6yu/ERdFKPCynMlIH0E4V056wCB52g0gUCat53Y...	NULL	2021-03-21 17:51:00	2021-03-21 17:51:00

☐ Check all | With selected: ☐ Edit ☐ Copy ☐ Delete ☐ Export

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Figure 5.2: Implementation of main system table of OSMS

5.2 Implementation of Front-end Design:

Admin

Sign in to start your session

☐ Remember Me

Figure 5.3: Admin/ Merchants Login page of the project.

User sign-in and sign-out is shown in this application.

Register

Name

E-Mail Address

Password

Confirm Password

Register

Figure 5.4: Registration page for Clients of OSMS project.

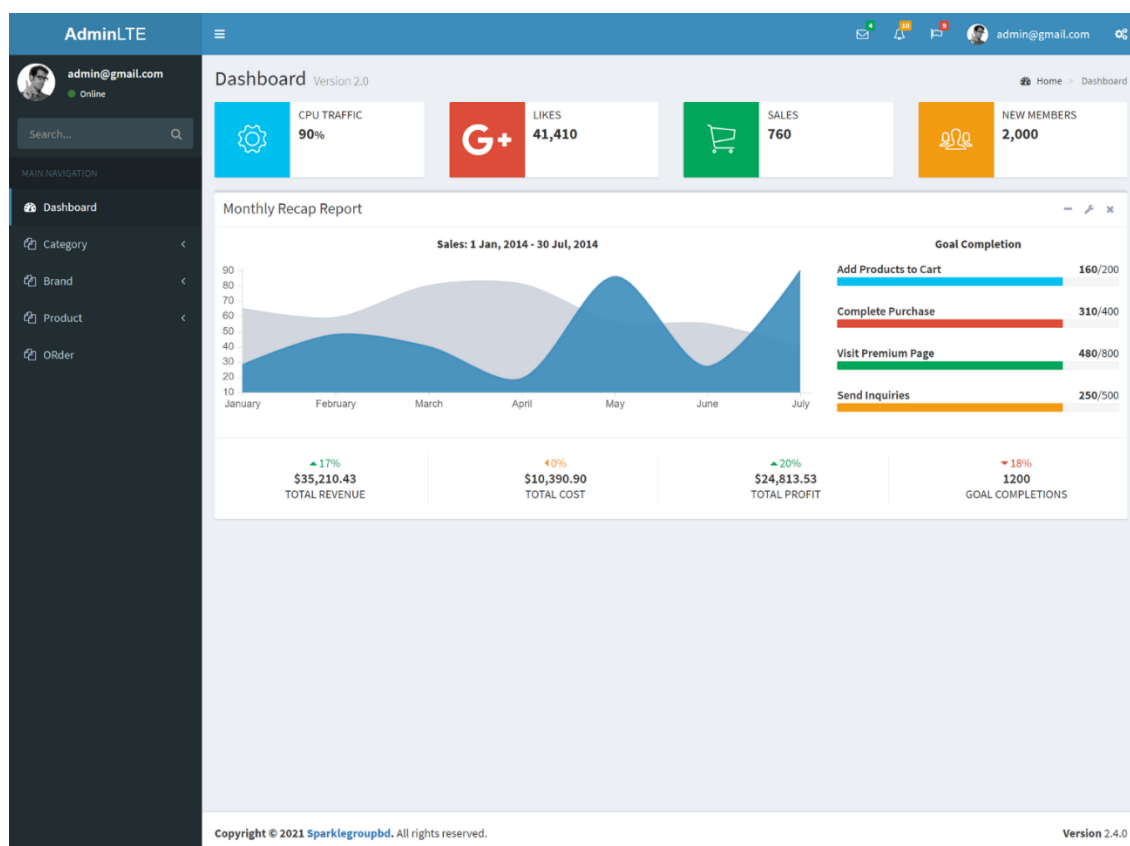


Figure 5.5: Dashboard of OSMS (Online shopping Management System)

AdminLTE

admin@gmail.com

Online

Search...

MAIN NAVIGATION

Dashboard

Category

Brand

Product

Order

Product

Manage Product

Home > Product

Product Information Data Table

Show 10 entries

Search:

Product Name	Product Price	Product Quantity	Category Name	Brand Name	Product Quantity	Publication Status	Action
Lenovo G27Q 27" QHD IPS 165Hz 1ms Gaming Monitor + AMD Ryzen 5 5600X Processor	55000	500	Electronics	Asus	1		
Lenovo Legion Y540 15.6 Gaming Laptop 144Hz i7 16GB RAM 256GB SSD GTX 1660Ti 6GB	88000	100	Electronics	Asus	1		
Mr. & Mrs Mugs	250	200	Mugs	Mugs	1		
Mr. & Mrs Mugs	250	200	Mugs	Mugs	1		
Mugs (Best mom ever)	200	100	Mugs	Mugs	1		
Mugs (Theres no buddy like my brother)	200	100	Mugs	Mugs	1		
Multi colored Mens Polo shirt Half	3000	30	Man	Gentle park	1		
White printed formal shirt	2200	20	Man	Gentle park	1		
Rendering engine	Browser	Platform(s)	Engine version	CSS grade			

Showing 1 to 8 of 8 entries

Previous

1

Next

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Version 2.4.0

Figure 5.7: Product information Data Table of OSMS (Online shopping Management System)

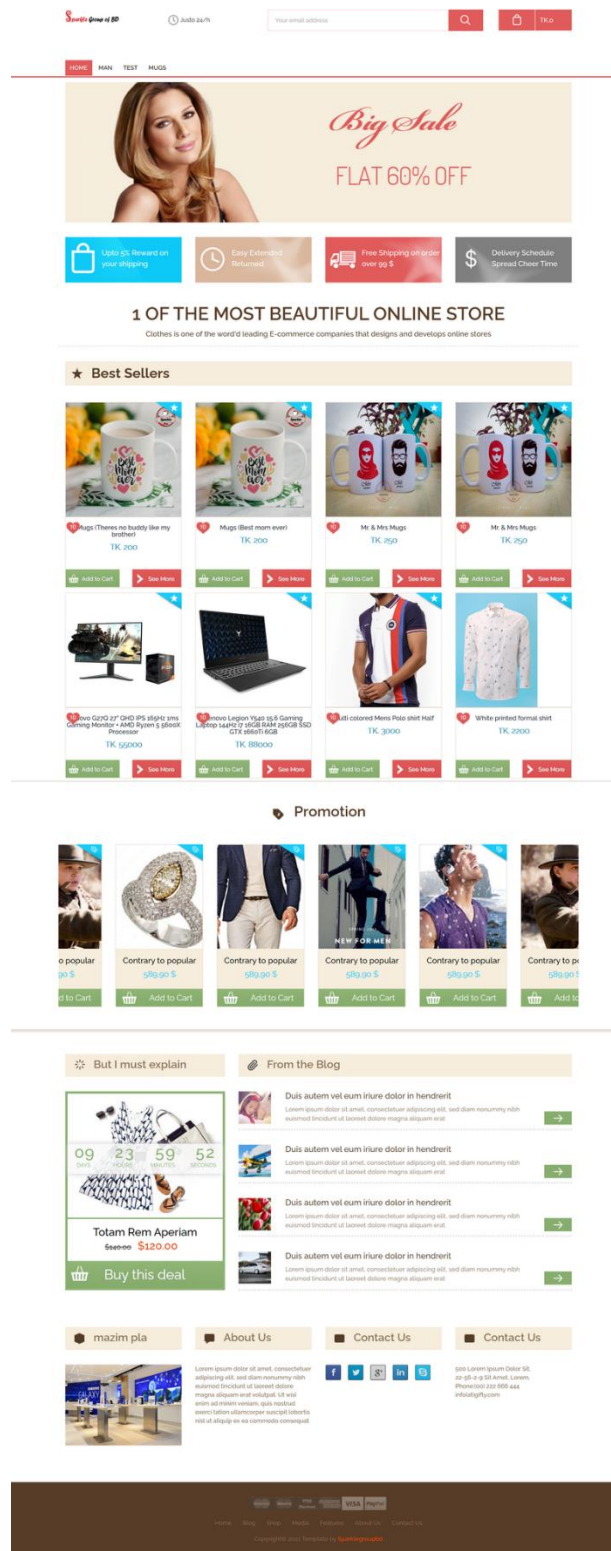


Figure 5.8: Product list of Online shopping Management System

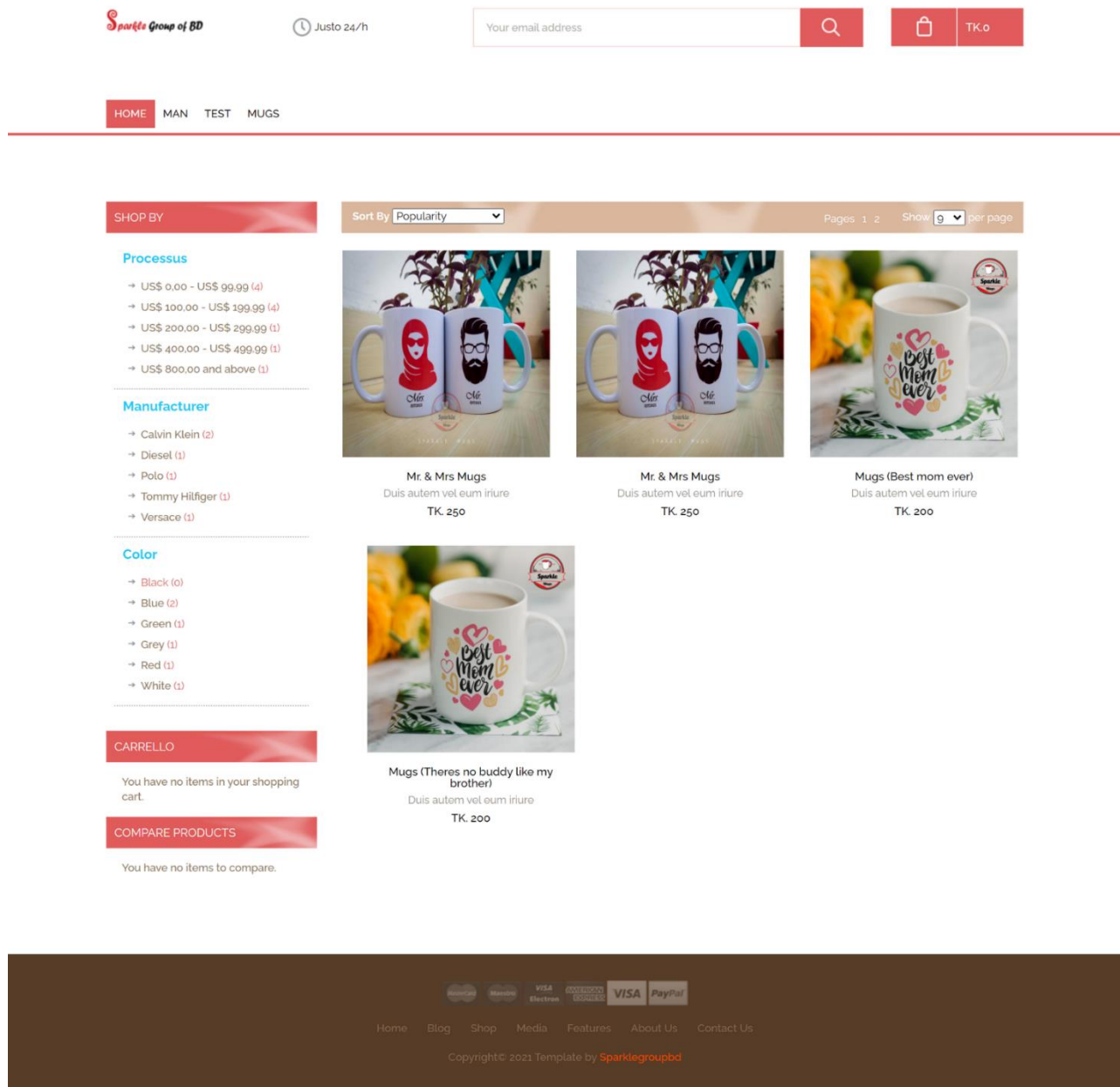


Figure 5.9: Category base Product list of OSMS (Online shopping Management System)



MUGS (BEST MOM EVER)

Product Price: TK. 200
 Product Category: Mugs
 Product Brand: Mugs
 Product Stock: Available

1

ADD TO CART

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PRODUCT SHORT DESCRIPTION

A mug is a type of cup typically used for drinking hot drinks, such as coffee, hot chocolate, or tea. Mugs usually have handles and hold a larger amount of fluid than other types of cup.

PRODUCT LONBG DESCRIPTION

A mug is a type of cup typically used for drinking hot drinks, such as coffee, hot chocolate, or tea. Mugs usually have handles and hold a larger amount of fluid than other types of cup.

RELATED PRODUCTS



Mr. & Mrs Mugs
 Duis autem vel eum iriure
 TK. 250



Mr. & Mrs Mugs
 Duis autem vel eum iriure
 TK. 250



Mugs (Best mom ever)
 Duis autem vel eum iriure
 TK. 200



Mugs (Theres no buddy like my brother)
 Duis autem vel eum iriure
 TK. 200



Figure 5.10: Products details of OSMS (Online shopping Management System)

5.3 Implementation of interactions:

In this section, we can understand how it works. How and how easily the clients will pick it up.

5.4 Testing implementation:

When we created this application, we contacted some clients around to us to find out some of their problems. And we've tried to focus on those problems. Then we worked in collaboration with some E-commerce web application. We have received positive results for this application.

5.5 Test result and reports:

Outcome of the testing is shown in table below:

Table 5.1: System testing table

Test case id	Date	Tester	Design	User experience	Recommendation for others
1	11-02-21	Furut Rong Tulir Canvas	Good	Average	Yes
2	13-01-21	Pretty Fix	Great	Good	Yes
3	20 -03-21	Wanna eat	Good	Average	Yes
4	20-03-21	Arpi (client)	Great	Good	Yes
5	24-02-21	Mehedi (client)	Great	avaerage	yes

CHAPTER 6

Conclusion and Future Scope

6.1 Discussion and Conclusion:

First of all, we would like to thank Allah, the Most Gracious, who helped us to make this application. We went deep into the world of online shopping while creating this web application, gather a lot of knowledge about it, research more and more. Which made it even easier for us to make this application. We have tried to find out the problems of the online shopping system. As a result of this application. We have discussed many people who are doing online shopping regularly. They said it was a good initiative. They encouraged us with the scope of this application. With this application we will be able to know the scope of online shopping system. Users/clients will be able to understand it very easily.

6.2 Scope for Further Developments:

We have some extra curriculum to add in this transport management system. Some of plans are on this transport management system is,

- Market demandable management system for using all transportation system in this project.
- User friendly & easier
- Web based problem solution.
- Will be used GPS on route in this management system.
- A Web Site will be developed as well. We will add more feature in this web application.
- Easier product use for all users in this transport management system.

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