



HOPE BD

An E-commerce Website

By

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A project submitted in partial fulfillment of the requirement for the degree of
Bachelor of Science in Software Engineering

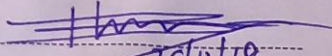
Department of Software Engineering
DAFFODIL INTERNATIONAL UNIVERSITY

Fall – 2018

APPROVAL

This project titled on "An E-commerce Website", submitted by **Shamima Islam (151-35-879)** to the Department of Software Engineering, Daffodil international University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of Bachelor of Science in Software Engineering and approval as to its style and contents.

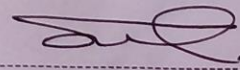
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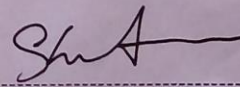
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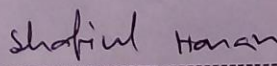
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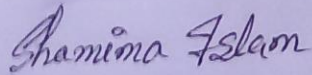
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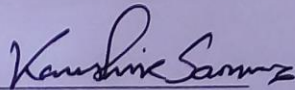
DECLARATION

It hereby declare that this project has been done by me under the supervision of **Kaushik Sarker, Associate Head, Department of Software Engineering, Daffodil International University**. It also declare that nithor this project nor any part of this has been submitted elsewhere for award of any degree.



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ACKNOWLEDGEMENT

At first, I would like to give my gratitude to the almighty Allah who gave the patience to complete this project properly.

I am obliged and grateful to my project supervisor **Mr. Kaushik Sarker, Associate Head, Department of Software Engineering**, Daffodil International University for his motivation and proper guidelines that was a big part of my project. Without his valuable support and guidance, I couldn't complete the project in time.

I would like to thank all the Faculty members, Department of Software Engineering, Daffodil International University for their valuable time and speech for this project.

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Chapter 1

Introduction

1.1 Project Overview:

The project is about an online shopping system where customers can purchase their goodies from online. Customers can browse the products with different categories and brands. They can add any product in the cart. The product will be added in the wish list automatically. Then the customer can go for the checkout by logging in the system. This time they can view the product details. They can remove product from the cart or can edit the cart. There is a payment gateway system PayPal. Customers can pay by the PayPal system. Then they can continue their shopping or can logout.

1.2 Project Purpose:

The purpose of building this web based online shopping system is to give a comfortable and stress free shopping experience. This online store is open for 24 hours. Customers can anytime do their shopping. They can browse all the product lists to choose their favorites. They don't have to face any hassle to buy their products. They can pay online and get their products in home within very short time.

1.2.1 Background:

Now a days people are so busy with their works. For this it is very tough for them to go out for the shopping. They want a very relaxing and stress free system for their shopping. So this is the main purpose for building up this project. People can do their shopping and also payment in online. The product will reach to their given home address. Now people don't have to go out facing traffic jam, stress, Gathering. They don't have to go from one shop to another shop for a particular item. Sitting in home they can see all the products in details and buy in a very short time.

1.2.2 Benefits & Beneficiaries:

Benefits:

1. Available from any corner of the country
2. Get new customers with search engine visibility
3. Lower costs
4. Locate the product quicker
5. Decrease the travel time and cost
6. Remain open for 24 hours

Beneficiaries:

Ecommerce websites is beneficial to both the customers and the owner of different online stores! For the business owners, they can showcase their latest products and items on their website. They can provide the information of different latest trending topics of their store.

While for the customers, they can check out all the products by just sitting at home and go through all the products in the least amount of time. The physical store has specific timing for opening and closing while the online stores are open for the whole day and customers can visit whenever they want to go there.

1.2.3 Goals:

1. To make an easy way to buy products
2. Customers can add the products in cart to purchase, can delete the product before final checkout.
3. The searching product will be shown by categories, brands.
4. Customers can view the product details with images.
5. It will decrease the time and cost of the customers for shopping.

1.3 Stakeholders:

This list would be my e-commerce stakeholder list:

1. Customer Services
2. Marketing
3. Web Master
4. Content Manager
5. Accounting
6. Buyers
7. Social Media team
8. Retail(Suppliers)
9. Transport(Suppliers)
10. Digital Marketing and e-commerce

11. Product Management
12. Employees
13. Regional Sales
14. Developers
15. Call Centre

1.4 Block Diagram:

A block diagram is a diagram of a system in which the principal parts or functions are represented by blocks connected by lines that show the relationships of the blocks.

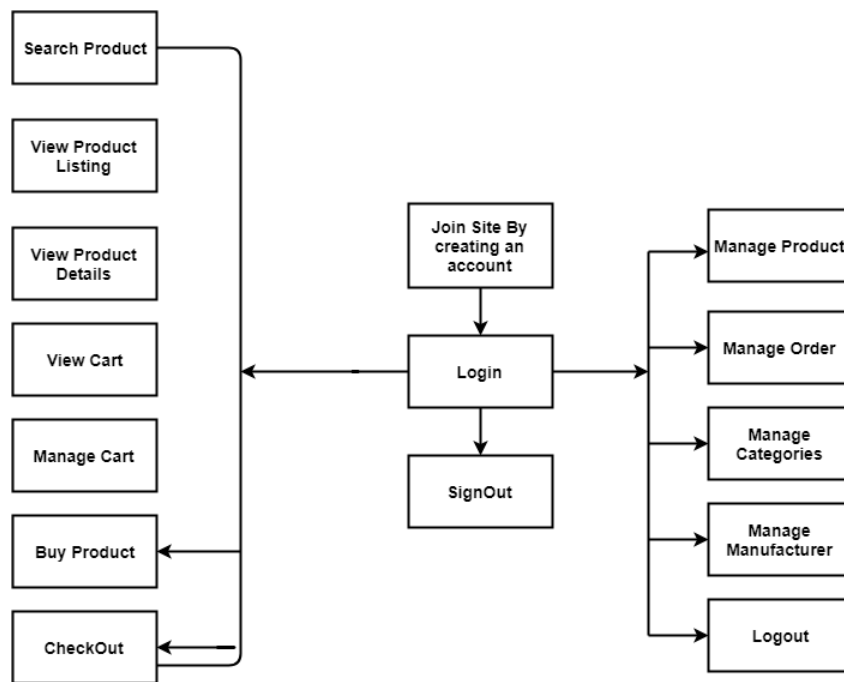


Figure: 1.4.1 Block Diagram

1.5 Project Schedule:

ID	Task	Duration (working days)	Start date	Finish date
1.0	Requirement Analysis	5	16Sep	20Sep
1.1	Define user requirements	5	22Sep	26Sep
1.2	Analyze website requirements	5	28Sep	20Oct
1.3	Cost and functionality analysis	3	4Oct	6Oct
2.0	Web Designing	7	7Oct	13Oct
2.1	Layout Design	3	15Oct	17Oct
2.2	Web page designing	3	18Oct	20Oct
2.3	Database design	7	21Oct	26Oct
2.4	Feature design	3	27Oct	29Oct
3.0	Development	4	1Nov	4Nov
3.1	Database development	2	6Nov	7Nov
3.2	Product and category development	3	9Nov	11Nov
4.0	Implementation and Testing	6	12Nov	17Nov
4.1	Domain name and hosting server purchase	2	20Nov	21Nov
4.2	Test website	5	22Nov	26Nov
5.0	Maintenance	7	27Nov	3Dec

Table: 1.5 Project Schedule

1.5.1 Gantt Chart:

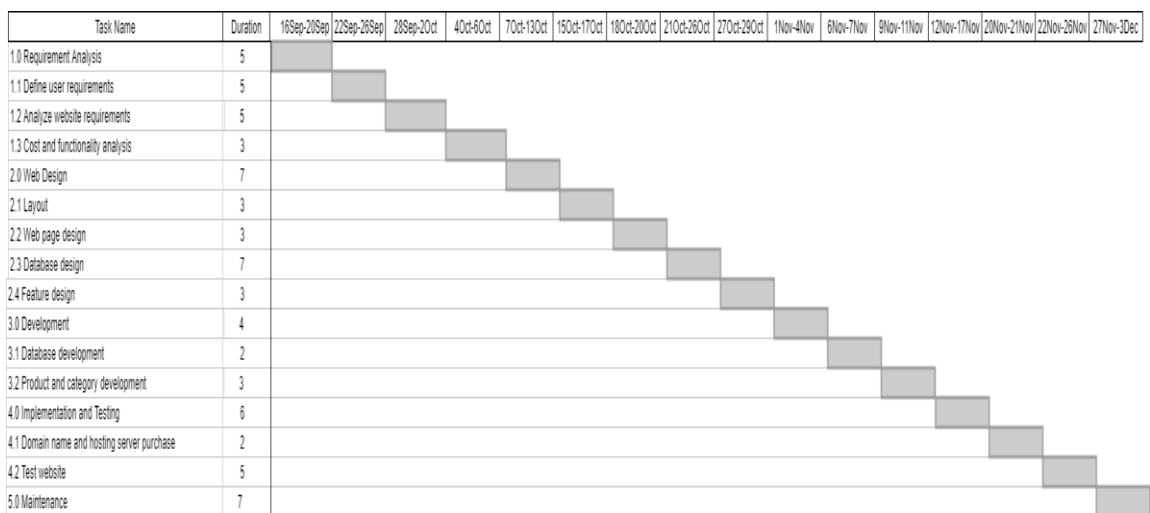


Figure: 1.5.1 Gantt Chart

Chapter-2

Software Requirement Specification

2.1 Functional Requirements:

1. It needs to be fast
2. It needs to be responsive
3. It needs a smooth checkout flow
4. It needs to be personalized
5. It needs to be accessible

2.2 Data Requirements:

1. Customers can browse the products and can add the products to cart. But at the checkout time he has to login the system for the existing users.
2. Customers can manage the cart and product order system.
5. Admin can manage the product list. He can add, delete or edit the product list and publish them.
6. Admin can manage the categories. He can add, delete or edit the categories of the products.
7. Admin can manage the brands as well. He can add, delete or edit the brands of the products.

2.3 Performance Requirements:

2.3.1 Speed and Latency Requirements:

1. Reducing size of page
2. Using a content delivery network
3. Specifying image dimensions
4. Avoiding redirects
5. Monitoring site speed

6. Using fast hosting server

2.3.2 Accuracy Requirements:

1. Defining data accuracy

- Product cost
- Type of product
- Identifying name
- Availability

2. Putting the customer in focus

3. Avoiding costs and preventing risks

4. Delivering value to customers and business

2.4 Dependability Requirements:

2.4.1 Reliability Requirements:

It needs to increase the reliability of the ecommerce website by doing these-

1. Monitoring all of the main elements like the product page or the home page.
2. It should be responsive.
3. The products should be authentic.

2.4.2 Availability Requirement:

The products should be available enough in stock timely. Following the trends, the demands of customers, exclusive items should be updated periodically.

2.5 Maintainability and Supportability Requirements:

2.5.1 Maintenance Requirements:

1. Upgrading: In online shop the prices of the products remain changing. So the price should be updating in time.

2. Corrections: If there is any problem with the system like spelling mistake, wrong name, price then it should make correct immediately.
3. Protection: We need to be very careful from the hackers for the system risks.

2.6 Security Requirements:

2.6.1 Access Requirements:

Microsoft Office Access and e-commerce platforms offers a host of very compelling possibilities. Information added to a catalog can be instantly represented on the site. Orders that are made through the shopping cart can have the information provided send to the customer information database.

2.6.3 Privacy Requirements:

Including a Privacy Policy not only builds trust with the customers, but it also ensures that it stays in line with the legal obligations.

Chapter 3

System Analysis

System Analysis is a process of collecting all the elements of the system, finding problems and making solutions.

3.1 Use Case Diagram:

Use Case Diagram is a structure showing the relationship between the users and the use cases. It is a rectangular shape with circle use cases.

The Use Case of my system is given below:

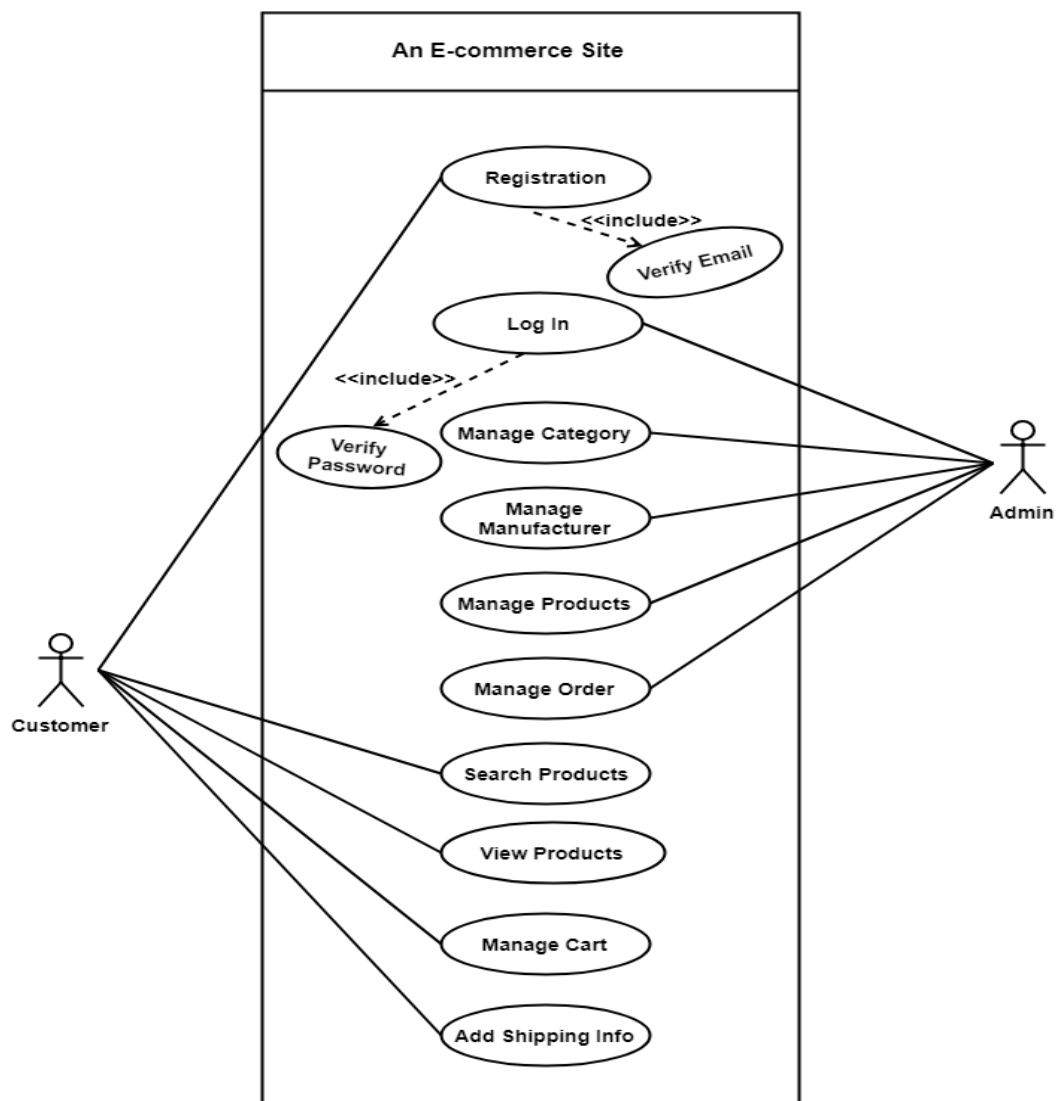


Figure: 3.1 Use Case Diagram

3.2 Use Case Description:

The given use case diagram is for admin and customer. This diagram shows the activities done by customer and admin. The use case description of this whole system is given below one by one.

Use Case No:	01
Use Case Name:	Login
Actor :	Admin, Customer
Pre-condition :	Customers have to register first.
Post condition :	Customers have to click on login.

Use Case No:	02
Use Case Name:	Manage Category
Actor :	Admin
Pre-condition :	To manage category admin has to login first.
Post condition :	Admin has to click on manage category.

Use Case No:	03
Use Case Name:	Manage Products
Actor :	Admin
Pre-condition :	Admin has to login first to manage products.
Post condition :	Admin has to click on manage products.

Use Case No:	04
Use Case Name:	Manage Order
Actor :	Admin
Pre-condition :	Admin has to login first to manage the product order.
Post condition :	Admin has to click on manage orders.

Use Case No:	05
Use Case Name:	Search Product
Actor :	Customer
Pre-condition :	Customers have to browse the website to search the product.
Post condition :	Customers have to click on search button.

Use Case No:	06
Use Case Name:	View Products
Actor :	Customer
Pre-condition :	Customers have to browse the site to view the products.
Post condition :	Customers have to click on products to view.

Use Case No:	07
Use Case Name:	Manage Cart
Actor :	Customer
Pre-condition :	Customers have to add product to the cart
Post condition :	Customers have to click on edit cart to manage the cart.

Use Case No:	08
Use Case Name:	Add Shipping Info
Actor :	Customer
Pre-condition :	Customers have to login to purchase the product.
Post condition :	Customers have to click on checkout.

3.3 Activity Diagram:

Activity Diagram shows the activities and the workflows stepwise. This whole process is shown in the below diagram.

Activity Diagram for Customer side:

The activities done by customer one after one is given below by this activity diagram.

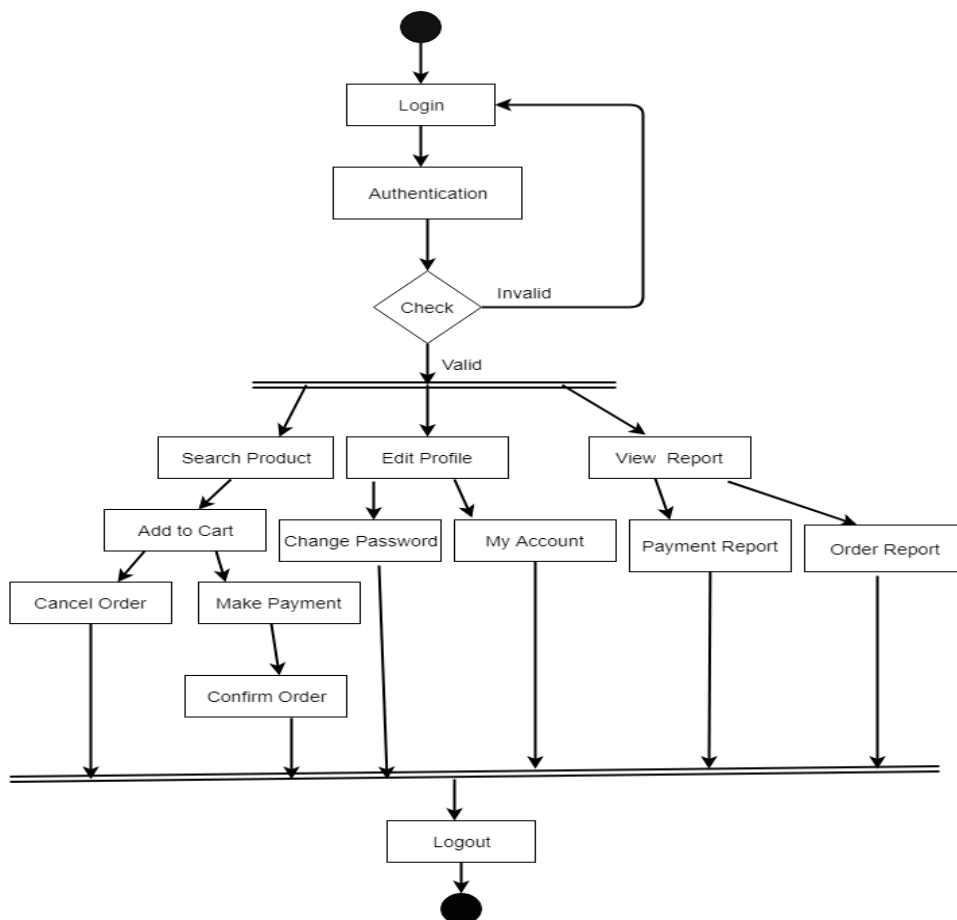


Figure: 3.3.1 Activity Diagram for Customer side

Activity Diagram for Admin Side:

The activities done by admin one after one is given below by this activity diagram.

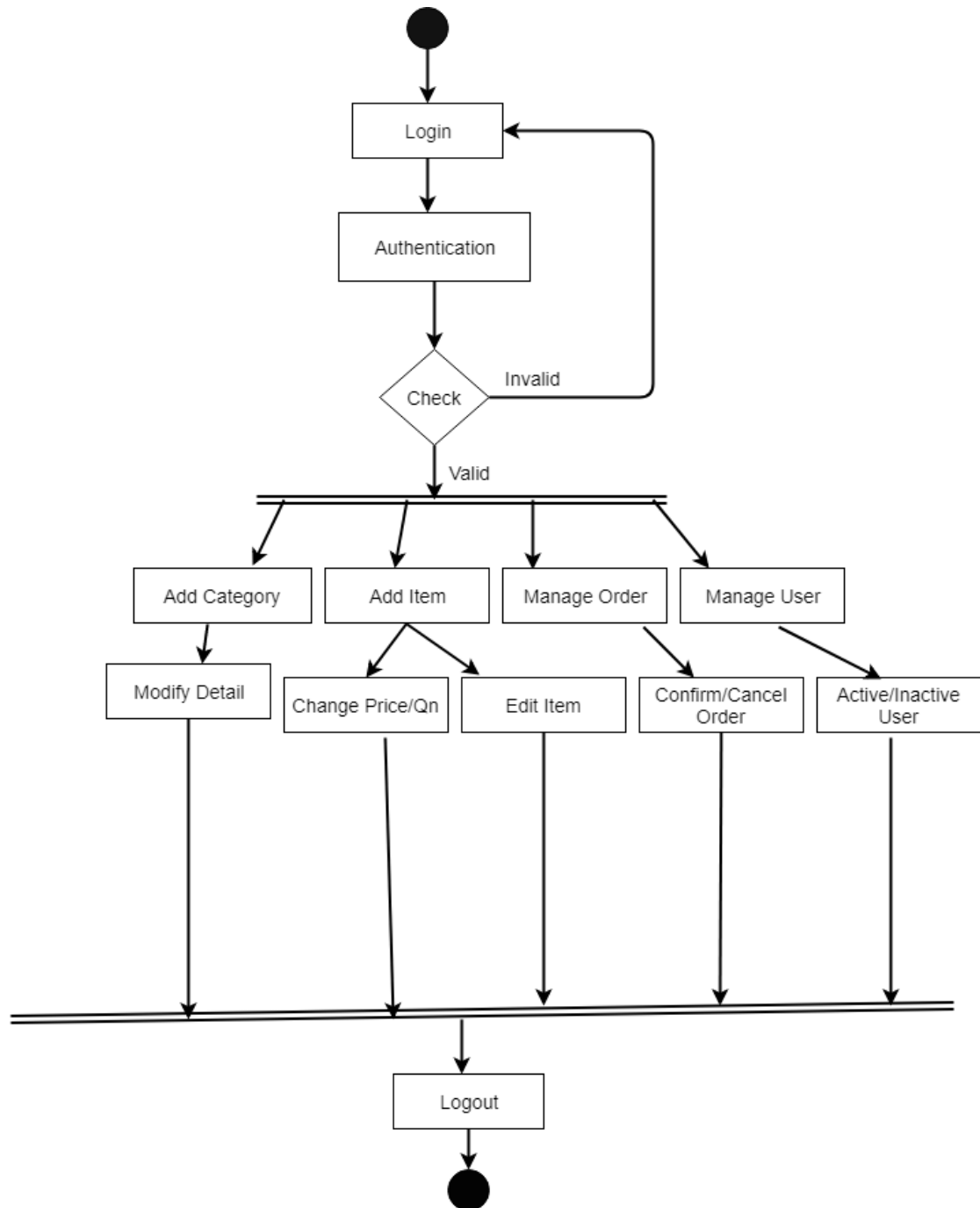


Figure: 3.1.2 Activity Diagram for Admin side

3.4 System Sequence Diagram:

System Sequence Diagram shows the particular events between the actor and system for one use case.

System Sequence Diagram for Registration:

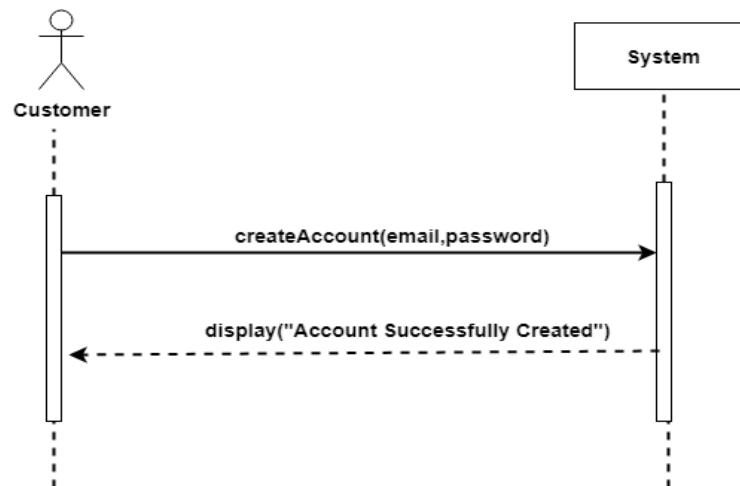


Figure: 3.4.1 System Sequence Diagram for Registration

System Sequence Diagram for Manage Category:

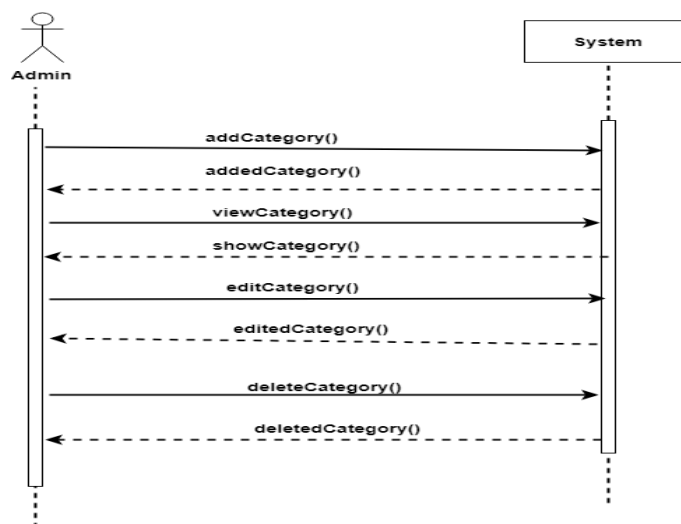


Figure: 3.4.2 System Sequence Diagram for Manage Category

System Sequence Diagram for Manage Manufacturer:

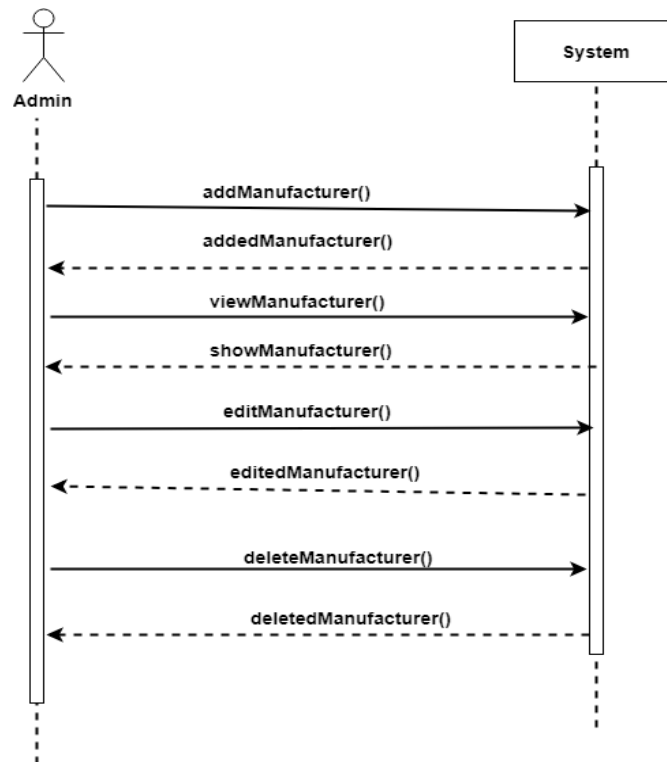


Figure: 3.4.3 System Sequence Diagram for Manage Manufacturer

System Sequence Diagram for Manage Products:

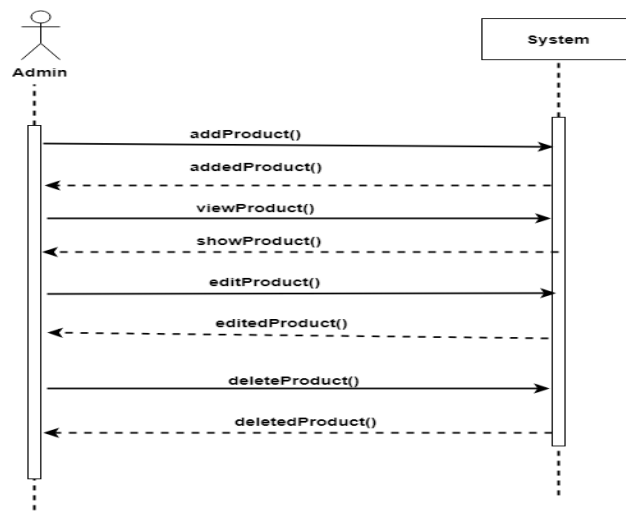


Figure: 3.4.4 System Sequence Diagram for Manage Products

System Sequence Diagram for Manage Order:

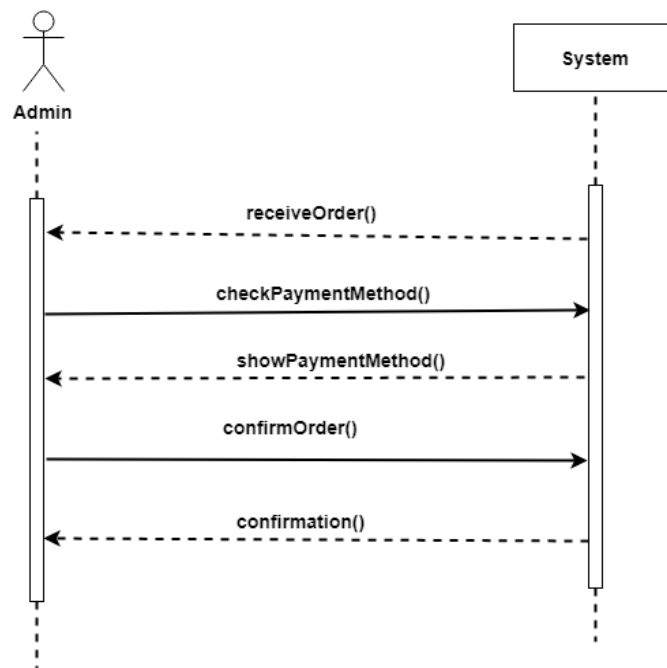


Figure: 3.4.5 System Sequence Diagram for Manage Order

System Sequence Diagram for Search & View Product:

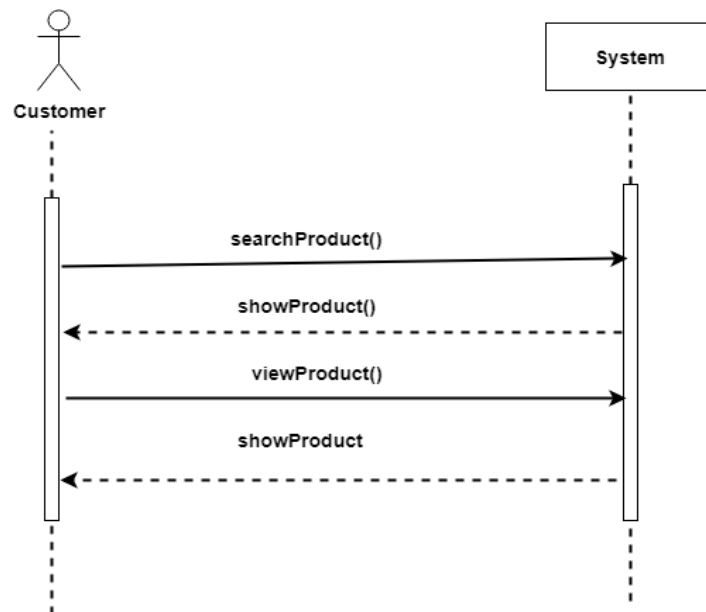


Figure: 3.4.6 System Sequence Diagram for Search & View Product

System Sequence Diagram for Manage Cart:

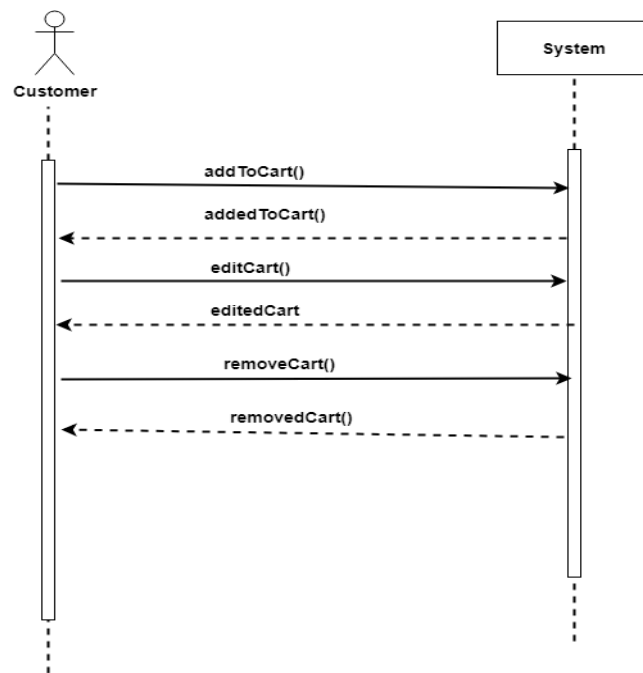


Figure: 3.4.7 System Sequence Diagram for Manage Cart

System Sequence Diagram for Add Shipping Info:

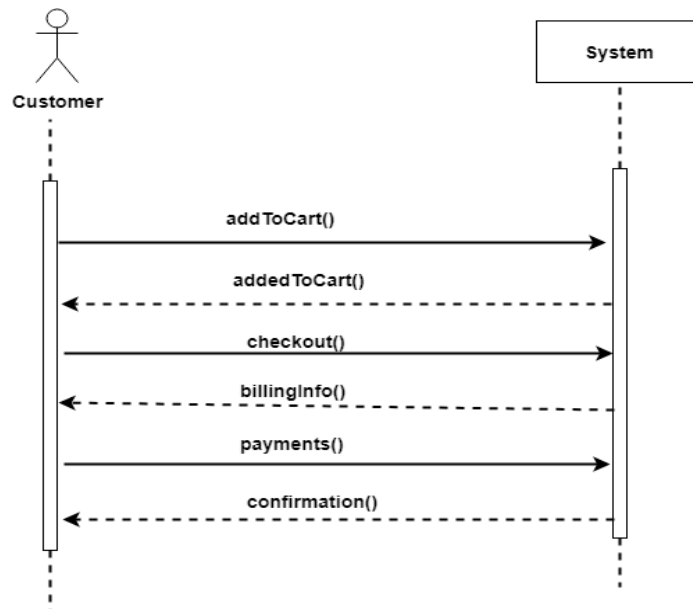


Figure: 3.4.8 System Sequence Diagram for Add Shipping Info

Chapter 4

System Design Specification

System Design shows the processes for implementing a system. It describes that how does a system really work.

4.1 Sequence Diagram:

Sequence Diagram shows the interactions of actors, system and database. The sequence diagrams of all the use cases of my system is given one by one.

Sequence Diagram for Registration:

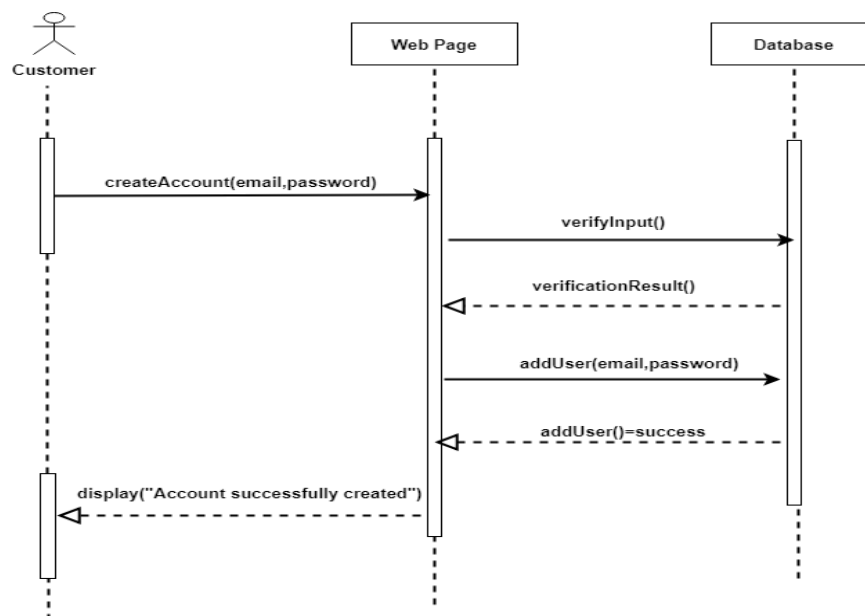


Figure: 4.1.1 Sequence Diagram for Registration

Sequence Diagram for Manage Category:

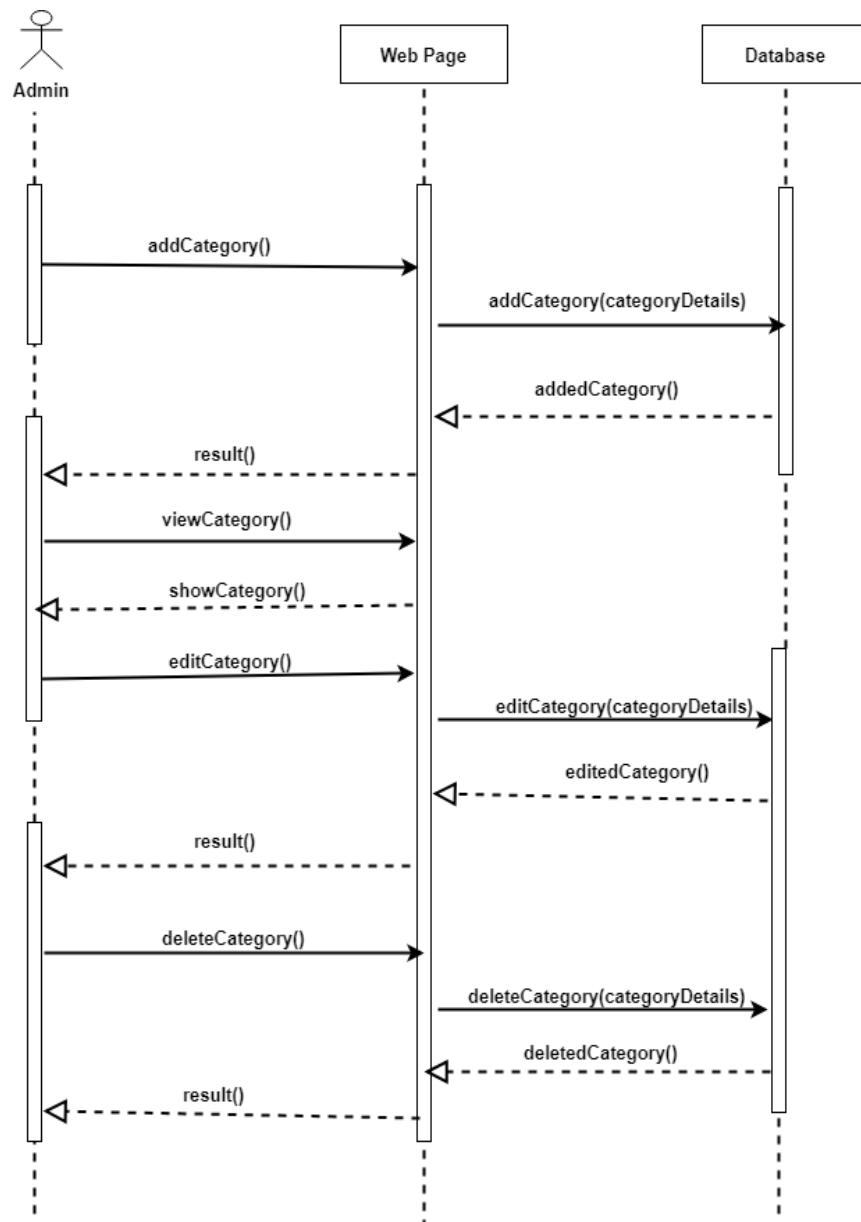


Figure: 4.1.2 Sequence Diagram for Manage Category

Sequence Diagram for Manage Manufacturer:

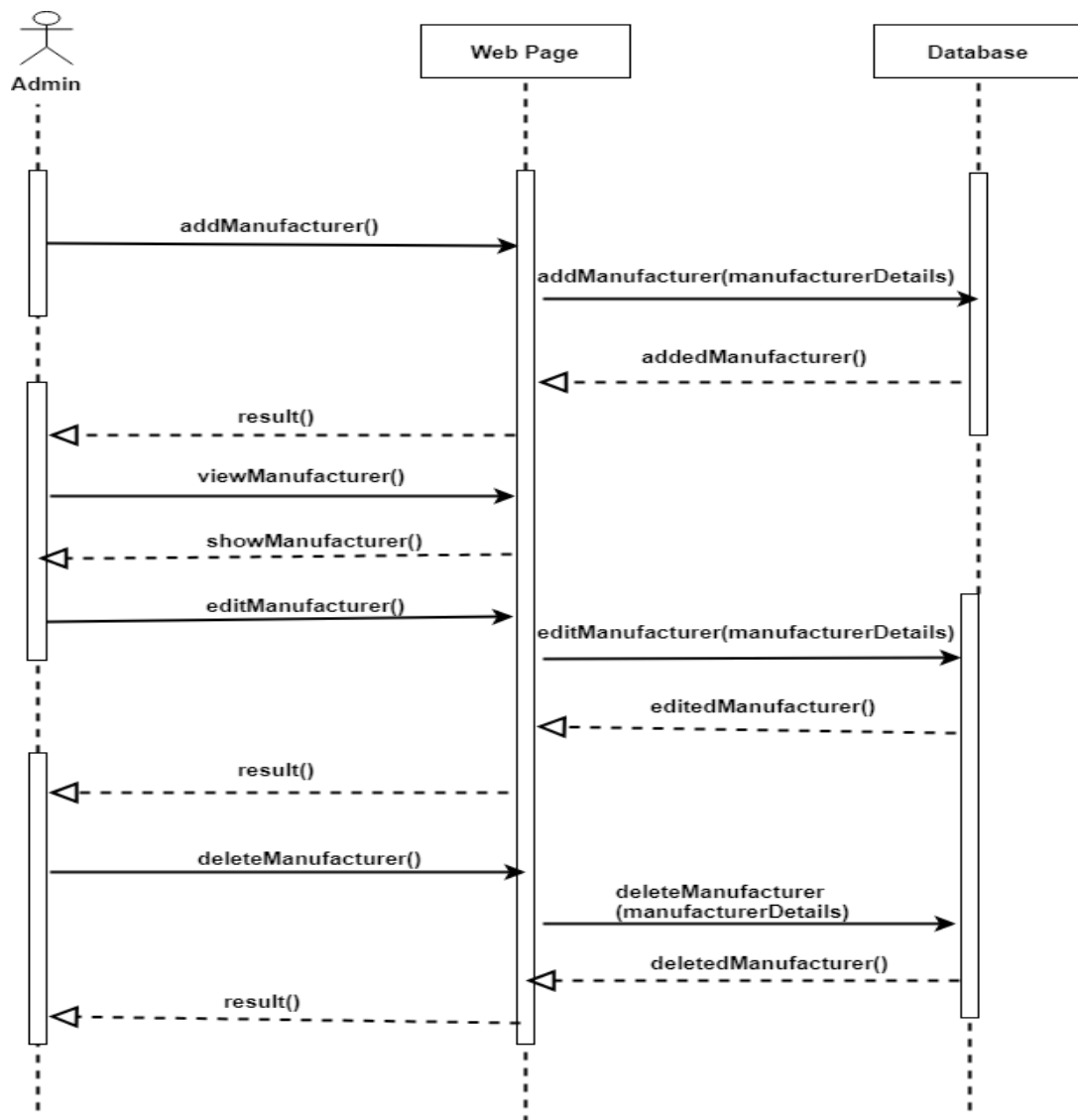


Figure: 4.1.3 Sequence Diagram for Manage Manufacturer

Sequence Diagram for Manage Product:

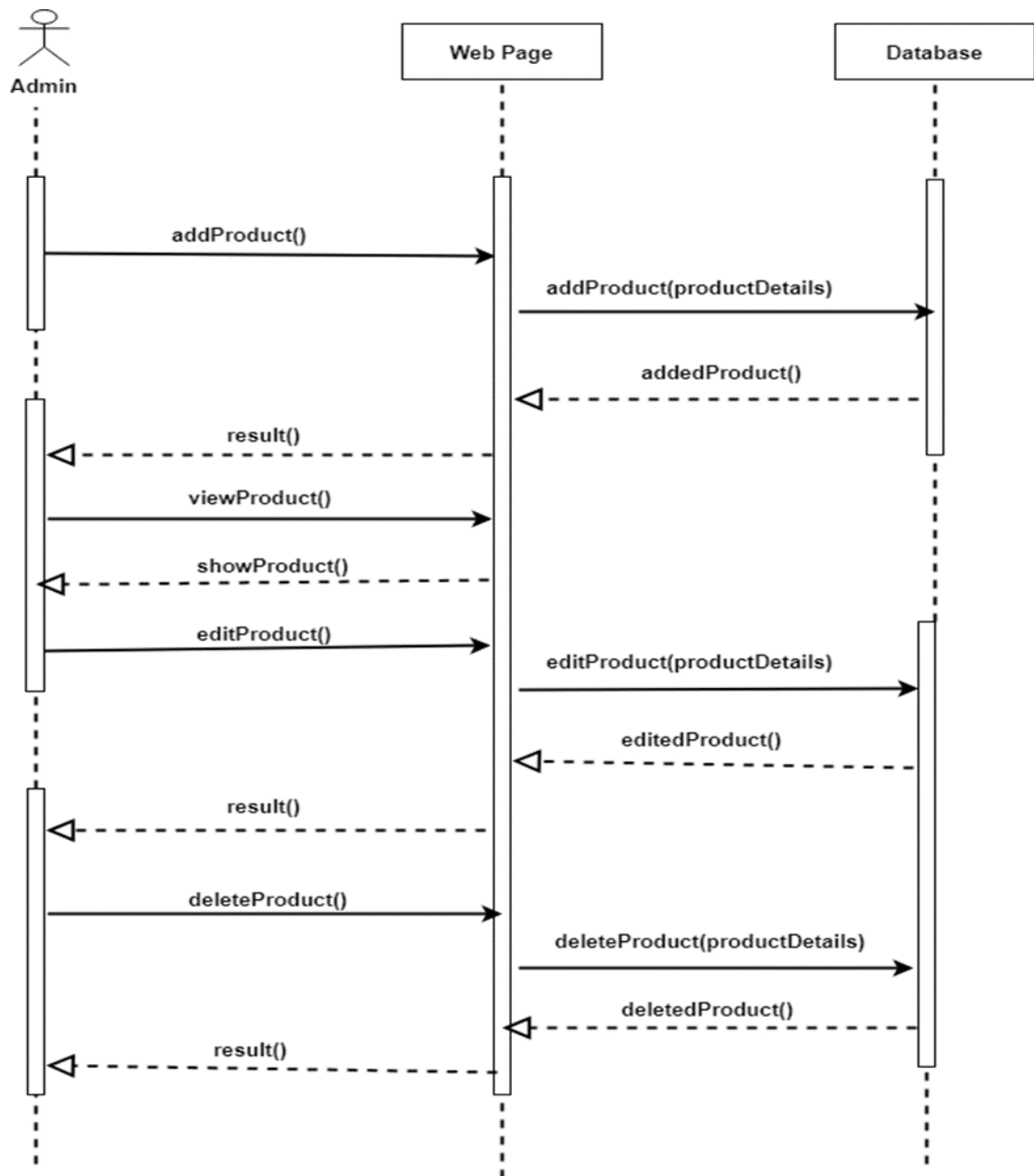


Figure: 4.1.4 Sequence Diagram for Manage Product

Sequence Diagram for Manage Order:

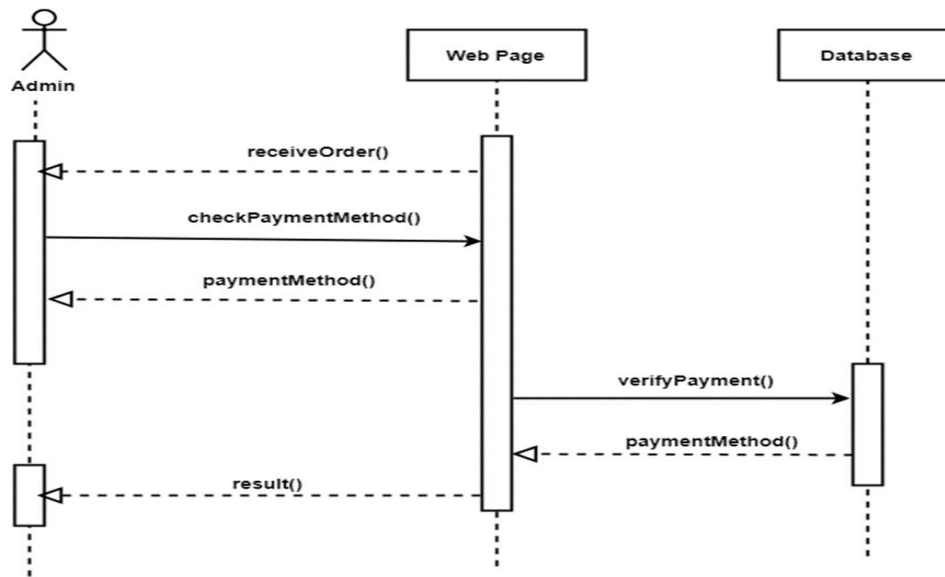


Figure: 4.1.5 Sequence Diagram for Manage Order

Sequence Diagram for Search and View Product:

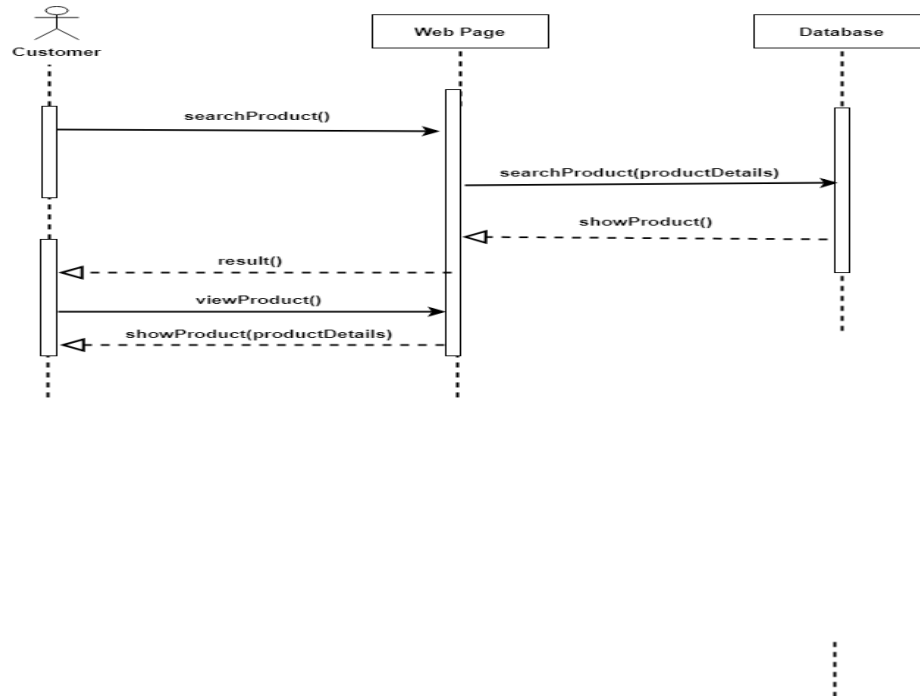


Figure: 4.1.6 Sequence Diagram for Search and View Product

Sequence Diagram for Manage Cart:

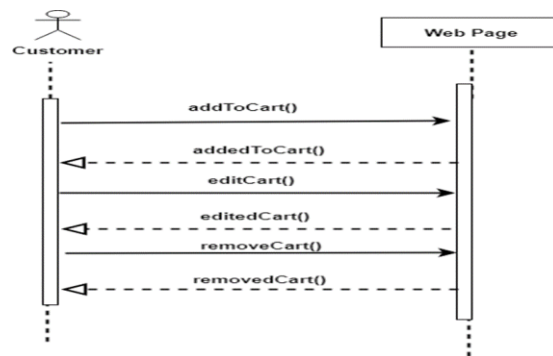


Figure: 4.1.7 Sequence Diagram for Manage Cart

Sequence Diagram for Add Shipping Info:

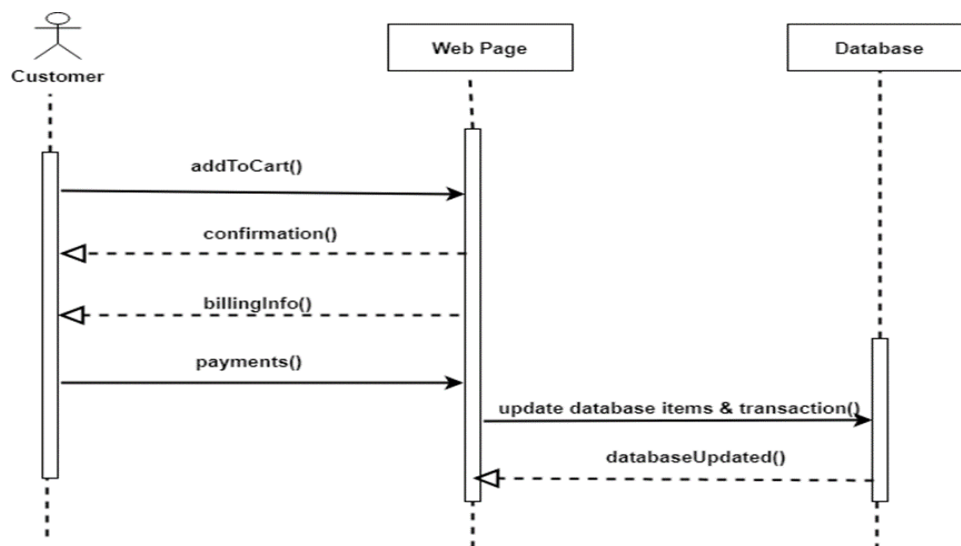


Figure: 4.1.8 Sequence Diagram for Add Shipping Info

4.2 Class Diagram:

Class diagram describes the attributes and it's behavior in a structured model. The class diagram of my system is given below:

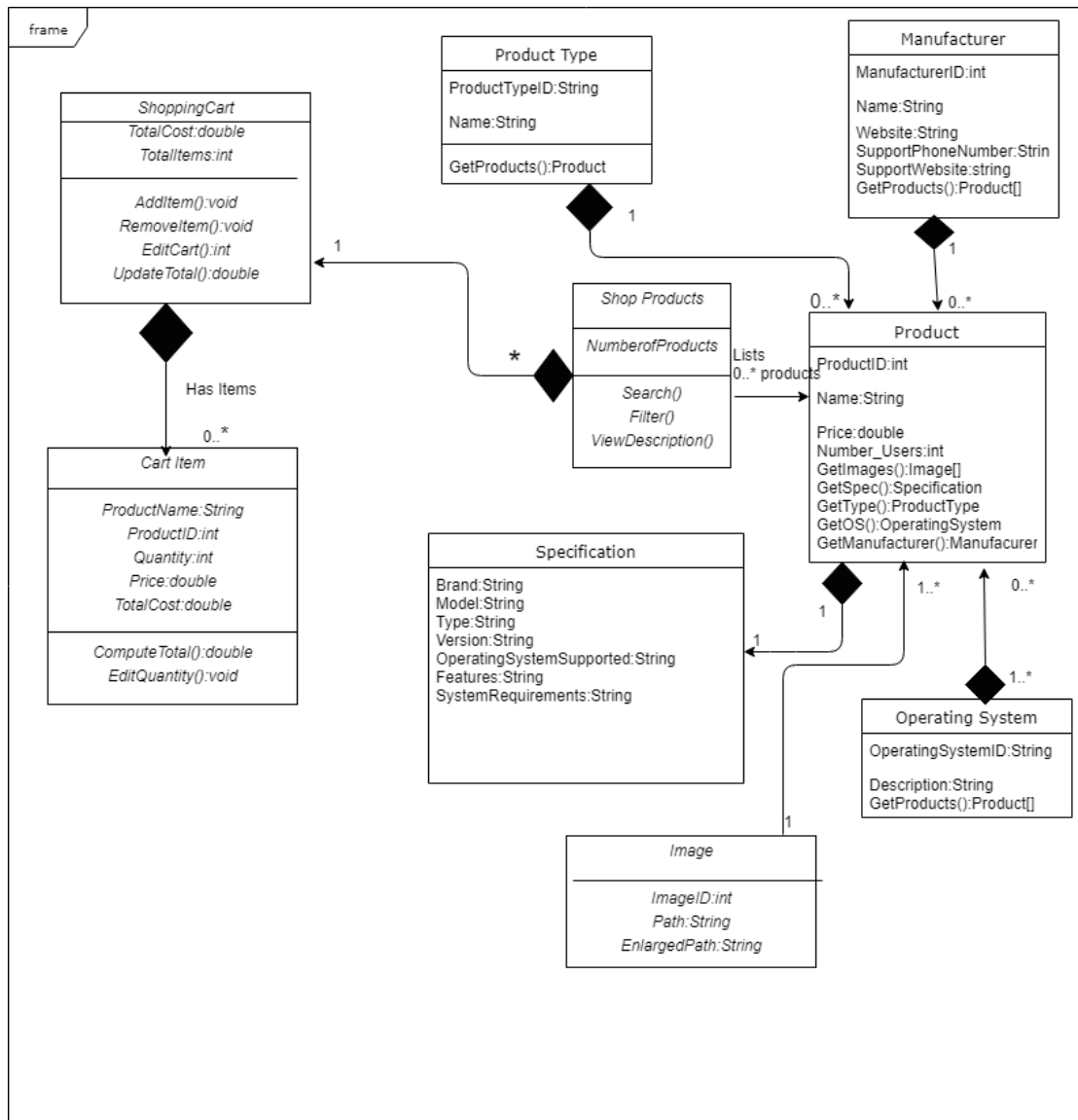


Figure: 4.2.1 Class Diagram

4.3 Database Design Diagram:

Database Design Diagram is an abstract and conceptual representation of data. Database Design Diagram is used to produce data model of a system,

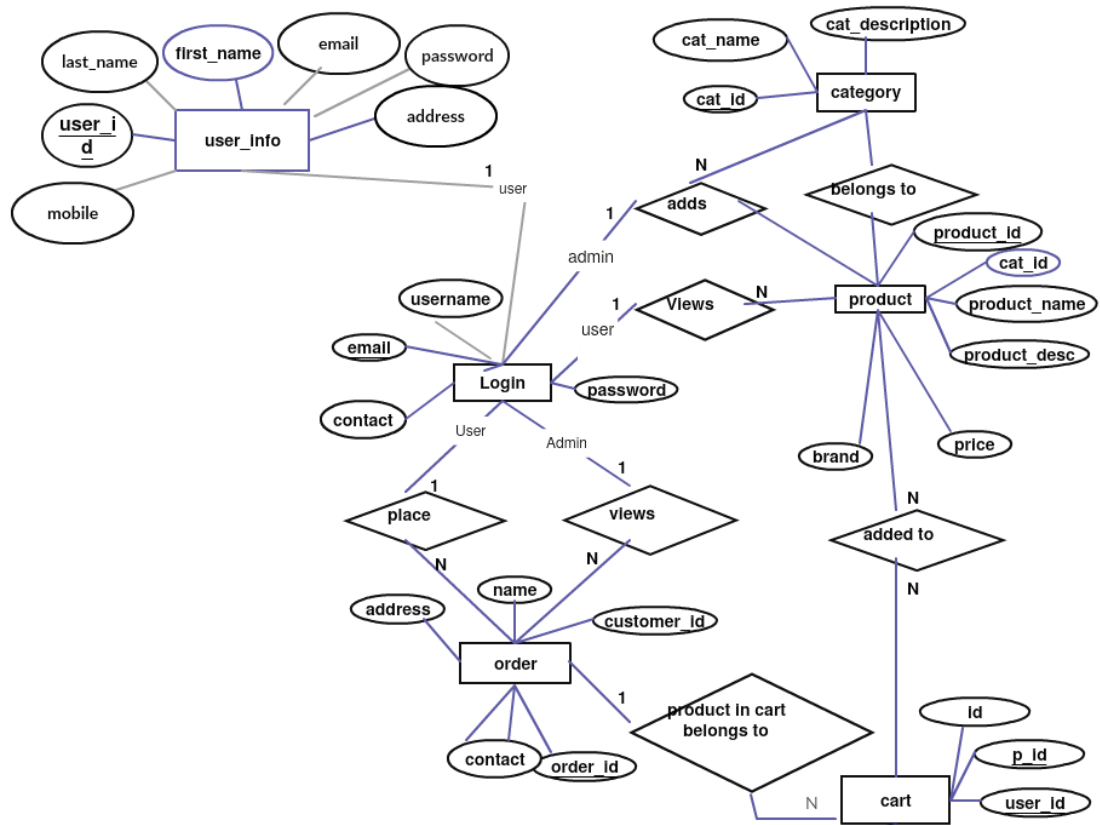


Figure: 4.3.1 Database Design Diagram

4.4 Development Tools & Technology:

Following are the tools and technologies used in development of this project:

Microsoft SQL Server 2008

HTML5, CSS, JavaScript, J-query, Twitter bootstrap

4.4.1 User Interface Technology:

4.3.1.1 HTML,CSS,JS, jQuery-Ajax.

4.3.1.2 CSS Framework, Bootstrap

4.3.1.3 Font Awesome 5

4.4.2 Implementation Tools & Platforms:

4.3.2.1 PHP

435.2.2 MySQL

4.3.2.3 XAMPP server

Chapter 5

System Testing

5.1 Testing Features:

5.1.1 Features to be tested:

1. Sign Up
2. Search
3. Checkout

5.1.2 Features not to be tested:

4. 1.Categories
5. 2.Product details page

5.2 Testing Strategies:

The process of testing of hardware and software to be sure that it meets all the functional requirements.

5.2.2 Pass/Fail Criteria:

Pass / fail criteria is related to testing a whole software application. From the very beginning, we must determine the criteria that designate a successful completion of the testing phase

5.2.3 Suspension and Resumption:

The suspension / resumption criteria for testing describe what happens when defects hamper the execution of tests.

5.2.4 Testing Environment (hardware/software requirements):

All the Html, JavaScript, PHP files, databases, media files that make up the entire website are stored on this server. A web authoring tool is used to create the front end of an e-commerce website. Notepad++ is used here as web authoring tool. For the database system I have used MySQL.

5.3 Test Cases:

Following of some test cases are made during entire level of testing:

Authentication Test:

Only valid and authorizes person can login the system. It was tested.

Validation Test:

It was tested that, if correct or incorrect entries by the users are accepted or not.

Chapter 6

User Manual

Homepage:

The homepage of a website shows the default page when a website is visited. The Home Page view of online shopping system is shown in figure below:

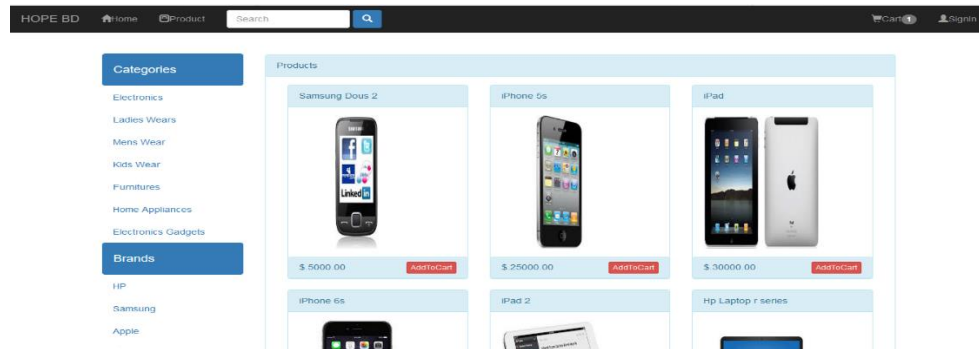


Figure: 6.1 Homepage

Login and Registration Form:

Customers have to login to purchase a product for existing users. If he is not registered then he has to register first. Figure of user login and registration page given below:

The image contains two screenshots of web forms. The left screenshot shows the 'Login' form, which has a blue header, input fields for 'Email' and 'Password', a 'Forgotten Password' link, and a green 'Submit Query' button. The right screenshot shows the 'Customer Sign Up Form', which has a blue header and input fields for 'First Name', 'Last Name', 'Email', 'password', 'Re-enter Password', 'Mobile', 'Address Line 1', and 'Address Line 2'. It features a green 'Sign Up' button at the bottom.

Figure: 6.2 Login and Registration Form

Cart:

To buy a product customers can add product to the cart. The figure of adding product to cart given below:

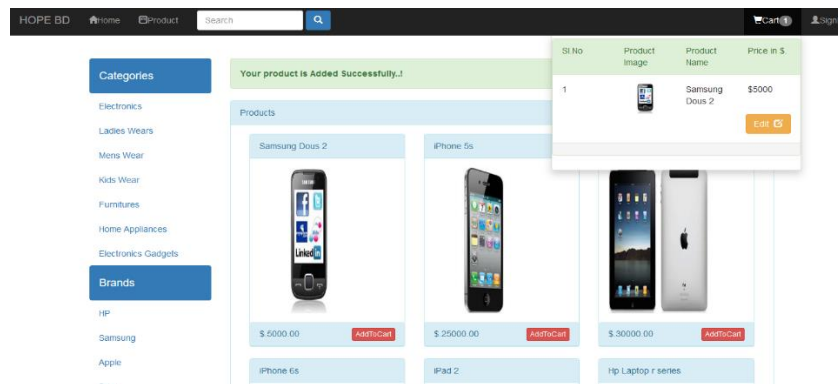


Figure: 6.3 Cart

Paypal Checkout: Customers can purchase items by paypal payment system.

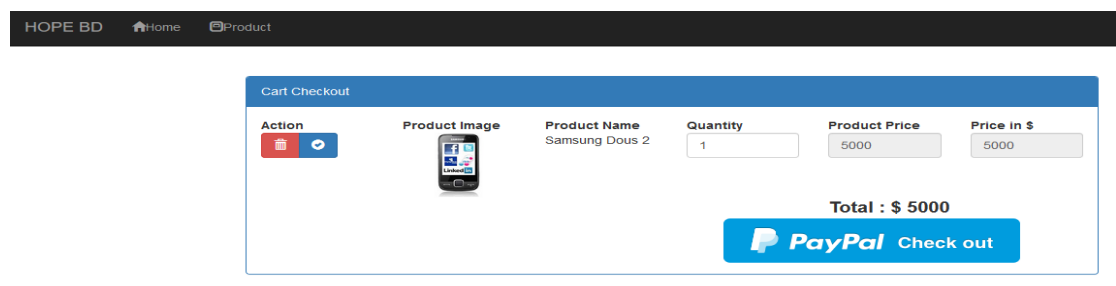


Figure: 6.4 Paypal Checkout

Admin Panel: This is the admin panel. Admin can manage category, brands, products as well.

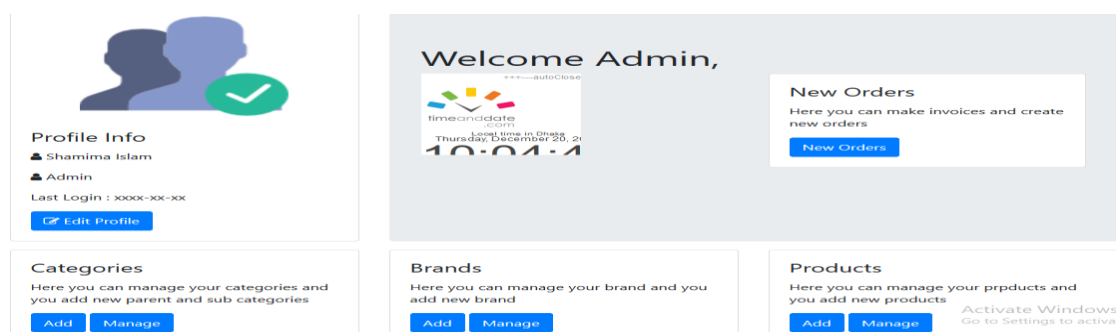


Figure: 6.5 Admin panel

Manage Category: Admin can add, delete and edit categories.

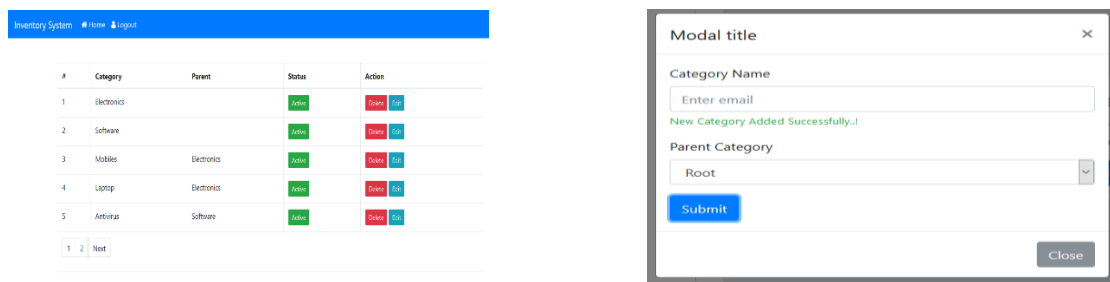


Figure: 6.6 Manage Category

Manage Brands: Admin can add, delete and edit the brands.

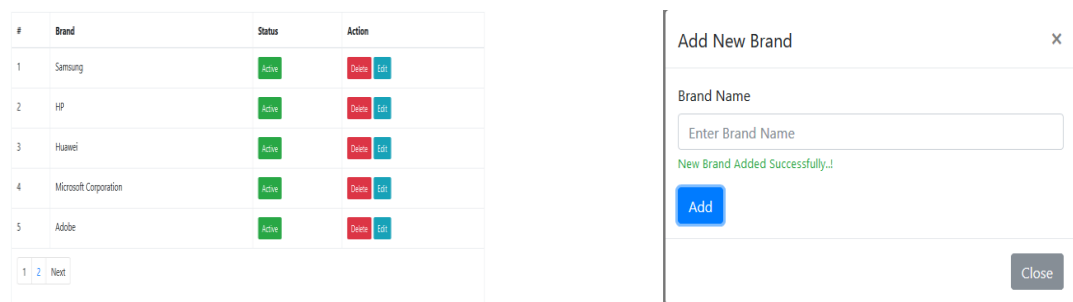


Figure: 6.7 Manage Brands

Manage Products: Admin can add, delete and edit products.

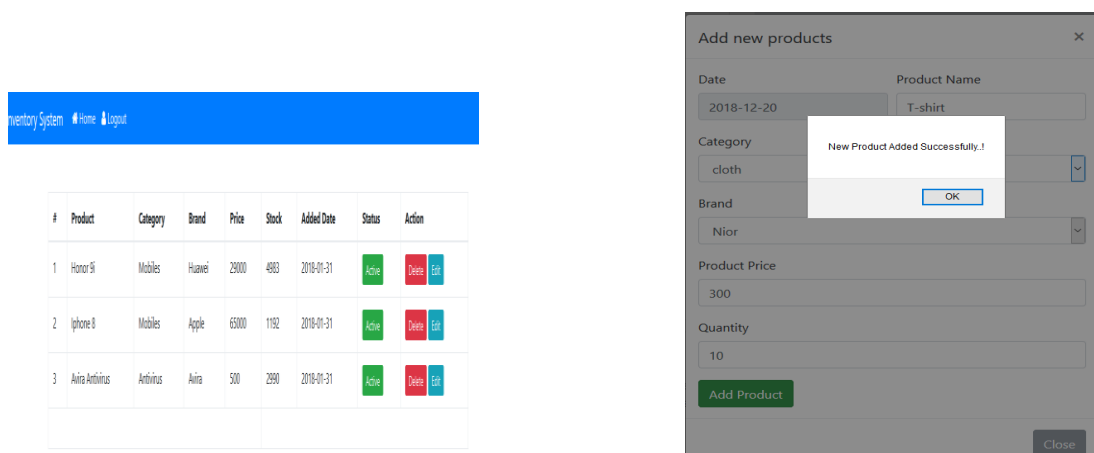


Figure: 6.8 Manage Products

Manage Orders: Admin can manage the orders got from the customers.

New Orders

Order Date: 2018-20-12

Customer Name*: Enter Customer Name

Make a order list

#	Item Name	Total Quantity	Quantity	Price	Total
1	Choose Product				Rs.0

Add Remove

Sub Total

GST (18%)

Discount

Net Total

Activate Go to Setti

Figure: 6.9 Manage Orders

Chapter 7

Project Summary

At the age of modern time the demand of online shopping is increasing. This website would be very helpful for office going people who don't get enough time for shopping. Also who don't like crowd and gathering they would get benefit from this website. This system is made in easy way that people get comfortable by using it. To choose product and payment system is very user friendly so people don't have to face any trouble at the time of shopping.

7.1 Github Link:

<https://github.com/shamimaasha/shamima151-35-879/tree/master>

7.2 Limitations

The software I have made have some limitations. I am trying to fulfill all the requirements. But some requirements are not completed here. Voice, chatting and video conferencing are not available here. The system is developed for only PayPal as payment method. No social media like Facebook, twitter, Instagram pages are not added here.

7.3 Future Scope

I have some future plans about this system. I would solve all the limitations of this system. I would like to add more payment system to make it more user friendly. Also I want to keep updating and upgrading the system.

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Appendices-A

Table No. 1: Table: brands

Server: 127.0.0.1 » Database: ecommerce » Table: brands										
Browse Structure SQL Search Insert Export Import Privileges Operations										
Table structure Relation view										
#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action	
<input type="checkbox"/> 1	brand_id	int(100)			No	None		AUTO_INCREMENT	Change	Drop More
<input type="checkbox"/> 2	brand_title	text	latin1_swedish_ci		No	None			Change	Drop More

Table No. 2: Table: cart

Server: 127.0.0.1 » Database: ecommerce » Table: cart										
Browse Structure SQL Search Insert Export Import Privileges Operations										
Table structure Relation view										
#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action	
<input type="checkbox"/> 1	id	int(10)			No	None		AUTO_INCREMENT	Change	Drop More
<input type="checkbox"/> 2	p_id	int(10)			No	None			Change	Drop More
<input type="checkbox"/> 3	ip_add	varchar(250)	latin1_swedish_ci		No	None			Change	Drop More
<input type="checkbox"/> 4	user_id	int(10)			Yes	NULL			Change	Drop More
<input type="checkbox"/> 5	qty	int(10)			No	None			Change	Drop More

Table No. 3: Table: categories

Server: 127.0.0.1 » Database: ecommerce » Table: categories										
Browse Structure SQL Search Insert Export Import Privileges Operations										
Table structure Relation view										
#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action	
<input type="checkbox"/> 1	cat_id	int(100)			No	None		AUTO_INCREMENT	Change	Drop More
<input type="checkbox"/> 2	cat_title	text	latin1_swedish_ci		No	None			Change	Drop More

Table No. 4: Table: orders

Server: 127.0.0.1 » Database: ecommerce » Table: orders										
Browse Structure SQL Search Insert Export Import Privileges Operations Tracking										
Table structure Relation view										
#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action	
<input type="checkbox"/> 1	order_id	int(11)			No	None		AUTO_INCREMENT	Change	Drop More
<input type="checkbox"/> 2	user_id	int(11)			No	None			Change	Drop More
<input type="checkbox"/> 3	product_id	int(11)			No	None			Change	Drop More
<input type="checkbox"/> 4	qty	int(11)			No	None			Change	Drop More
<input type="checkbox"/> 5	trx_id	varchar(255)	latin1_swedish_ci		No	None			Change	Drop More
<input type="checkbox"/> 6	p_status	varchar(20)	latin1_swedish_ci		No	None			Change	Drop More

Table No. 5: Table: products

Server: 127.0.0.1 » Database: ecommerce » Table: products										
Browse Structure SQL Search Insert Export Import Privileges Operations Track										
Table structure Relation view										
#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action	
<input type="checkbox"/> 1	product_id	int(100)			No	None		AUTO_INCREMENT	Change	Drop More
<input type="checkbox"/> 2	product_cat	int(100)			No	None			Change	Drop More
<input type="checkbox"/> 3	product_brand	int(100)			No	None			Change	Drop More
<input type="checkbox"/> 4	product_title	varchar(255)	latin1_swedish_ci		No	None			Change	Drop More
<input type="checkbox"/> 5	product_price	int(100)			No	None			Change	Drop More
<input type="checkbox"/> 6	product_desc	text	latin1_swedish_ci		No	None			Change	Drop More
<input type="checkbox"/> 7	product_image	text	latin1_swedish_ci		No	None			Change	Drop More
<input type="checkbox"/> 8	product_keywords	text	latin1_swedish_ci		No	None			Change	Drop More

Table No. 6: Table:user_info

Server: 127.0.0.1 » Database: ecommerce » Table: user_info										
Browse Structure SQL Search Insert Export Import Pr										
Table structure Relation view										
#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra		
<input type="checkbox"/> 1	user_id	int(10)			No	None		AUTO_INCREMENT		
<input type="checkbox"/> 2	first_name	varchar(100)	latin1_swedish_ci		No	None				
<input type="checkbox"/> 3	last_name	varchar(100)	latin1_swedish_ci		No	None				
<input type="checkbox"/> 4	email	varchar(300)	latin1_swedish_ci		No	None				
<input type="checkbox"/> 5	password	varchar(300)	latin1_swedish_ci		No	None				
<input type="checkbox"/> 6	mobile	varchar(10)	latin1_swedish_ci		No	None				
<input type="checkbox"/> 7	address1	varchar(300)	latin1_swedish_ci		No	None				
<input type="checkbox"/> 8	address2	varchar(11)	latin1_swedish_ci		No	None				