



## **Apparel Sales Management System**

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This Project report has been submitted in fulfillment of the requirements for the Degree of Bachelor of Science in Software Engineering.

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## APPROVAL

This project titled on “**Apparel Sales Management System**”, submitted by **Tasnova Jarin Tonny (151-35-1054)** & **Sadia Afrin Mim (151-35-1055)** 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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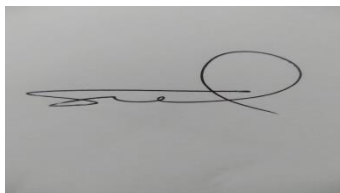
## DECLARATION

It hereby declares that this project has been done by us under the supervision of **Md Khaled Sohel, Assistant Professor**, Department of Software Engineering, at Daffodil International University. It also declares that neither this project nor any part of this has been submitted elsewhere for award of any degree.

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## Table of Contents

1. INTRODUCTION.....	1
1.1 Project Overview .....	1
1.2 The Purpose of the Project .....	1
1.2.1 Background of the Project Effort.....	1
1.2.3 Project Goals .....	1
1.3 Stakeholders.....	2
1.3.1 The Admin .....	2
1.4 Project Timelines .....	2
2. REQUIREMENTS SPECIFICATIONS .....	3
2.1 Functional Requirements .....	3
2.2 Data Requirement .....	5
2.3 Performance Requirements .....	5
2.3.1 Speed and Latency Requirements .....	5
2.3.2 Capacity Requirements .....	5
2.4 Dependability Requirements .....	6
2.4.1 Reliability Requirements: .....	6
2.4.2 Availability Requirements: .....	6
2.4.3 Robustness or Fault-Tolerance Requirements: .....	6
2.4.4 Safety-Critical Requirements: .....	6
2.5 Maintainability and Supportability Requirements .....	6
2.5.1 Maintenance Requirements: .....	6
2.6 Security Requirements: .....	6
2.6.1 Access Requirements: .....	6

2.7 Usability and Human-Interaction Requirements.....	7
2.7.1 Ease of Use Requirements:.....	7
2.7.2 Personalization and internationalization Requirements: .....	7
2.7.3 Understandability and Politeness Requirements: .....	7
2.7.4 Accessibility Requirements: .....	7
2.7.5 User Documentation Requirements:.....	7
2.8 Operational and Environmental Requirements .....	7
2.8.1 Expected Physical Environment.....	7
3. SYSTEM ANALYSIS & DESIGN .....	8
3.1 Use Case Diagram: .....	8
3.2 Use Case Description .....	9
3.3 Activity Diagram: .....	12
3.3.1 Admin Perspective Activities: .....	12
3.3.2 Customer Perspective Activities:.....	13
3.3.4 System Sequence Diagram .....	14
4. System Design Specification.....	19
4.1 Sequence Diagram.....	19
4.2 Class Diagram.....	21
4.3 Database Design Diagram (ER Diagram) .....	22
4.4 Development Tools & Technology .....	23
4.4.1 User Interface Technology .....	23
5. System Testing .....	24
5.1 Testing Features.....	24
5.1.1 Features to be tested.....	24
5.1.2 Features not to be tested .....	24
5.2 Testing Strategies .....	24
5.2.1 Pass/Fail Criteria.....	24
6. User Manual .....	27

6.1 Web View: .....	27
6.2 New Arrival .....	28
6.3 Product Description: .....	28
6.4 Product Cart: .....	28
6.5 Customer Registration: .....	29
6.6 Admin Interface: .....	29
6.7 Product Add: .....	30
7. Project Summary .....	31
7.1 GitHub Link.....	31
7.2 Limitations .....	31
7.3 Obstacles & Achievements.....	31
7.4 Future Scope .....	31
8. REFARCENCE: .....	32

## List OF Figure

Figure 1- Project Timeline .....	2
Figure 2-Use case Diagram .....	8
Figure 3 Admin Perspective Activities .....	12
Figure 4: Customer Perspective Activities.....	13
Figure 5: System Sequence Diagram (Customer Registration) .....	14
Figure 6: System Sequence Diagram (Customer Login) .....	14
Figure 7: System Sequence Diagram (Customer Order Product).....	15
Figure 8: System Sequence Diagram (Customer Payment).....	15
Figure 9: System Sequence Diagram (Admin Registration) .....	16
Figure 10: System Sequence Diagram (Admin Login) .....	16
Figure 11: System Sequence Diagram (Admin Profile) .....	17
Figure 12: System Sequence Diagram (Admin Profile) .....	17
Figure 13: System Sequence Diagram (Admin Order Product) .....	18
Figure 14: System Sequence Diagram (Admin View Report) .....	18
Figure 15: Sequence Diagram (Admin) .....	19
Figure 16: Sequence Diagram (Customer).....	20
Figure 17: Class Diagram.....	21
Figure 18: Database Design Diagram (ER Diagram) .....	22
Figure 19: State Transition Diagram (Registration) .....	24
Figure 20: User Manual (Web View).....	27
Figure 21: User Manual (New Arrival).....	28
Figure 22: User Manual (Product Description) .....	28
Figure 23: User Manual (Product Cart) .....	29
Figure 24: User Manual (Customer Registration) .....	29
Figure 25: User Manual (Admin Interface) .....	30
Figure 26: User Manual (Product Add) .....	30



## **List OF Table**

Table 1: Functional Requirements .....	3
Table 2: Use Case Description (Registration).....	9
Table 3: Use Case Description (View product) .....	9
Table 4: Use Case Description (Order).....	9
Table 5: Use Case Description (Payment) .....	10
Table 6: Use Case Description (Cancel order).....	10
Table 7: Use Case Description (Manage item) .....	10
Table 8: Use Case Description (Confirm order) .....	11
Table 9: Use Case Description (Generate sales report) .....	11
Table 10: Use Case Description (Print report).....	11
Table 11: Test Case Registration .....	25
Table 12: Test Case result .....	26

# CHAPTER 1

## INTRODUCTION

### 1. INTRODUCTION

#### 1.1 Project Overview

**Apparel Sales Management System** is very helpful for the **DIPANPUR** to keep their sales record so easily. Here, customers can also choose their product & cart from the site easily.

#### 1.2 The Purpose of the Project

**Apparel Sales Management System** is a process of organizing the selling part so easy. It provides the scope for the customer such as choosing their product from the site. Customers want a user-friendly environment without any troubles for buying their product. They can get purchase product's information shopping cart and administrators can easily make reports of the goods sold all day.

##### 1.2.1 Background of the Project Effort

SPM is a system that provides successful help to manage the selling process easier for the user. This is the ongoing project for the entire Restaurant and we are working with some clients (**Kapor-Chopor.com**) from Dhaka. The majority of our clients are from Dhaka city. As it is a new idea it needs a very powerful and comprehensible presentation that will have the right influence on the user.

##### 1.2.2 Beneficiaries and Benefits

This projects are mainly beneficiaries for admin and customer. Benefits are,

- This system is fully functional and flexible.
- It is very easy to use.
- The system helps in back office administration by streamlining and standardizing the procedures.
- It saves a lot of time, money and labors.
- This system acts as an office that is open 24/7.
- It increases the efficiency of the management at offering quality services to the customers.
- Admin keep the sales record
- Customer can choose the product from the site.

The system provides an opportunity for customers without going to the & shopping mall & showroom.

##### 1.2.3 Project Goals

The basic functionality of this system is making the process user-friendly for stakeholders. It helps admin to control the sales system and sales report. All this data is logged in the database.

### 1.3 Stakeholders

#### 1.3.1 The Admin

- Add product (Edit, Update, Delete)
- View order report
- Create daily sales report.
- View sales report

### 1.4 Project Timelines

We are making our project in agile model.

Task Name	Start	End	Status							
				July	August	September	October	November	December	
Project proposal	4-7-18	19-8-18	complete >	█						
Requirement collect & analysis	25-8-18	14-10-18	complete >			█				
System design / UI	20-10-18	02-11-18	complete >				█			
Coding	20-10-18	13-11-18	complete >				█			
Testing	09-11-18	09-11-18	complete >					█		
Documentation & report	23-11-18	04-11-18	complete >						█	

Figure 1- Project Timeline

## CHAPTER 2

# REQUIREMENTS SPECIFICATIONS

### 2.1 Functional Requirements

FRQ_ID	FRQ_NAME	Description	Constraint
FRQ001	Registration	The Module will provide the customer to sign in the website.	
FRQ002	Login(Admin)	The Module will provide the access permission to admin for access the website.	N/A
FRQ003	Login(Customer)	The module will provide the access permission of all the logged in user.	RQ002
FRQ004	Add Product	The module will provide the reports of all the logged in user	RQ003
FRQ005	Order	The module will provide the reports for the booking details of the system	RQ001, RQ002
FRQ006	Order Report	The module will provide the reports for ordered product	RQ005
FRQ007	Sales Report	The module will provide the reports of sold product	RQ006

[Table 1: Functional Requirements](#)

#### 2.1.1. Registration (FRQ001)

Feature:

- The Module will provide the customer to sign in the website. Adds new user.
- Detect unauthorized users.

Report:

- The module will provide the reports of the registered users. Adds new user.
- Detect unauthorized users.

#### 2.1.2. Login - Admin (FRQ002)

Feature:

- This system will be able to give permission to access the website to the admin.
- Admin can access the whole system.

Report:

- The module will provide the reports of all the logged in users.
- Admin can able to see the summary of all the information that the users gave.

### **2.1.3. Login - Customer (FRQ003)**

Feature:

- This system will be able to give permission to access the website to the registered user.
- Prevent unregistered users to access the system.
- Customer can view product info and can order products.

Report:

- The module will provide the reports of all the logged in users.
- Customer can able to see the all information that the customer gave.

### **2.1.4. Add Product (FRQ004)**

Feature:

This module will be updated by admin.

Report:

The module will provide the report for available Product.

### **2.1.5. Order (FRQ005)**

Feature:

The module will be available for the registered users.

Report:

The module will provide the report for the booking details of the system.

### **2.1.6. Order Report (FRQ006)**

Feature:

The system will allow admin to show the user's ordered list.

Report:

The module will provide the report for ordered product.

### **2.1.7. Sales Report (FRQ007)**

Features:

The system will show the sales report of the products for the Shop.

Report:

The module will provide the report of sold product.

### **2.1.8. Logout: Admin Logout, Customer Logout Feature:**

Features:

- This software will be able to close the connection between user and system.
- All users can't access the system any further when they are logged out.

Report:

- The module will provide the report for the logged in and logged out users in the system.
- Give information to the system that users don't have any permission to access the system.
- Just they can view the site.

## **2.2 Data Requirement**

- A customer can view the product properly but to buy he has to add the product in shopping cart, for this he has to register or have to login if he is an existing user.
- To launch the system, admin have to select the category of product, brand of product will remain in the system for customer view and he can select those from his panel.
- From user part or customer part when a customer ordered from his part can manage the order of the product.
- Admin can add category of product, view brand, delete brand, update brand and its status those are not available in shop as unpublished.
- Admin can add product, view product, delete product, update product and its status those are not available in shop as unpublished.
- Admin can add category of product, delete, view, update product and its status those are not available in shop or stop to sell or not to show to customer.

## **2.3 Performance Requirements**

### **2.3.1 Speed and Latency Requirements**

We understand the importance of timing, of getting there before the competition. A rich portfolio of reusable, modular framework helps jump-start projects. Tried and tested methodology ensures that we follow a predictable, low-risk path to achieve results. Our track record is testimony to complex projects delivered within and even before schedule.

### **2.3.2 Capacity Requirements**

Minimum Hardware Requirements:

- Processor type: Intel Core i3 -4th gen (Any higher processor)
- Processor Speed: 1.30Ghz & higher (Minimum 1.20 GHz)

- RAM: 2 GB or above
- HDD Capacity: 250 GB or above
- Monitor: 17’’ Color/Mono (Any Upgraded)
- Keyboard: 104-keyboard (Any Upgraded)
- Mouse: 3-button/2-Button
- Linux, Windows 7, Win 8.1, Win10 Operating System

Software Requirement:

- Front end: - web browser, Php Strom.
- Back end: - SQL SERVER.

## **2.4 Dependability Requirements**

### **2.4.1 Reliability Requirements:**

The reliability of the overall program depends on the reliability of the separate components. The main pillar of reliability of the system is the backup of the database which is continuously maintained and updated to reflect the most recent changes.

### **2.4.2 Availability Requirements:**

The system should be available at all times, meaning the user can access it using a web browser, only restricted by the down time of the server on which the system runs. In case of an of a hardware failure or database corruption, a replacement page will be shown. Also in case of a hardware failure or database corruption, backups of the database should be retrieved from the server and saved by the administrator.

### **2.4.3 Robustness or Fault-Tolerance Requirements:**

If there any problem with site user in this system, then admin will solve the problem.

### **2.4.4 Safety-Critical Requirements:**

The system has the ability to operate without catastrophic failure.

## **2.5 Maintainability and Supportability Requirements**

### **2.5.1 Maintenance Requirements:**

A commercial database is used for maintaining the database and the application server takes care of the site. In case of a failure, a re-initialization of the program will be done. Also the software design is being done with modularity in mind so that maintainability can be done efficiently.

## **2.6 Security Requirements:**

### **2.6.1 Access Requirements:**

To make sure that system does not allow unauthorized access to data and resources.

## **2.7 Usability and Human-Interaction Requirements**

### **2.7.1 Ease of Use Requirements:**

- An online base website option
- Free or competitive shipping options
- Advanced navigation and search functions
- Superior photos and image options
- A detailed product description
- Customer reviews of the product
- A fast guest check-out option

### **2.7.2 Personalization and internationalization Requirements:**

- Multi-Language CMS & TMS support
- Multi-Currency Support
- Payment Method (e.g. Cash On Delivery, Credit Card etc.)
- Taxes
- Shipping & logistics
- Web Analytics

### **2.7.3 Understandability and Politeness Requirements:**

This system has the ability so that a user can easily understand the policy and learn to operate, prepare inputs for, and interpret outputs of system or component.

### **2.7.4 Accessibility Requirements:**

Accessibility measures ensure that everyone can use my website, whether they require assistance, identify as someone with a disability, or aren't able to use conventional browsing methods like a computer.

### **2.7.5 User Documentation Requirements:**

The main **goal** of effective documentation is to ensure that developers and stakeholders are headed in the same direction to accomplish the objectives of the project. To achieve them, plenty of documentation types exist.

## **2.8 Operational and Environmental Requirements**

### **2.8.1 Expected Physical Environment**

In computer program and software product development, the development environment is the set of processes and programming tools used to create the program or software product. The term may sometimes also imply the physical environment. An integrated development environment is one in which the processes and tools are coordinated to provide developers with an orderly interface to and convenient view of the development process.



# CHAPTER 3 SYSTEM ANALYSIS & DESIGN

## 3. SYSTEM ANALYSIS & DESIGN

### 3.1 Use Case Diagram:

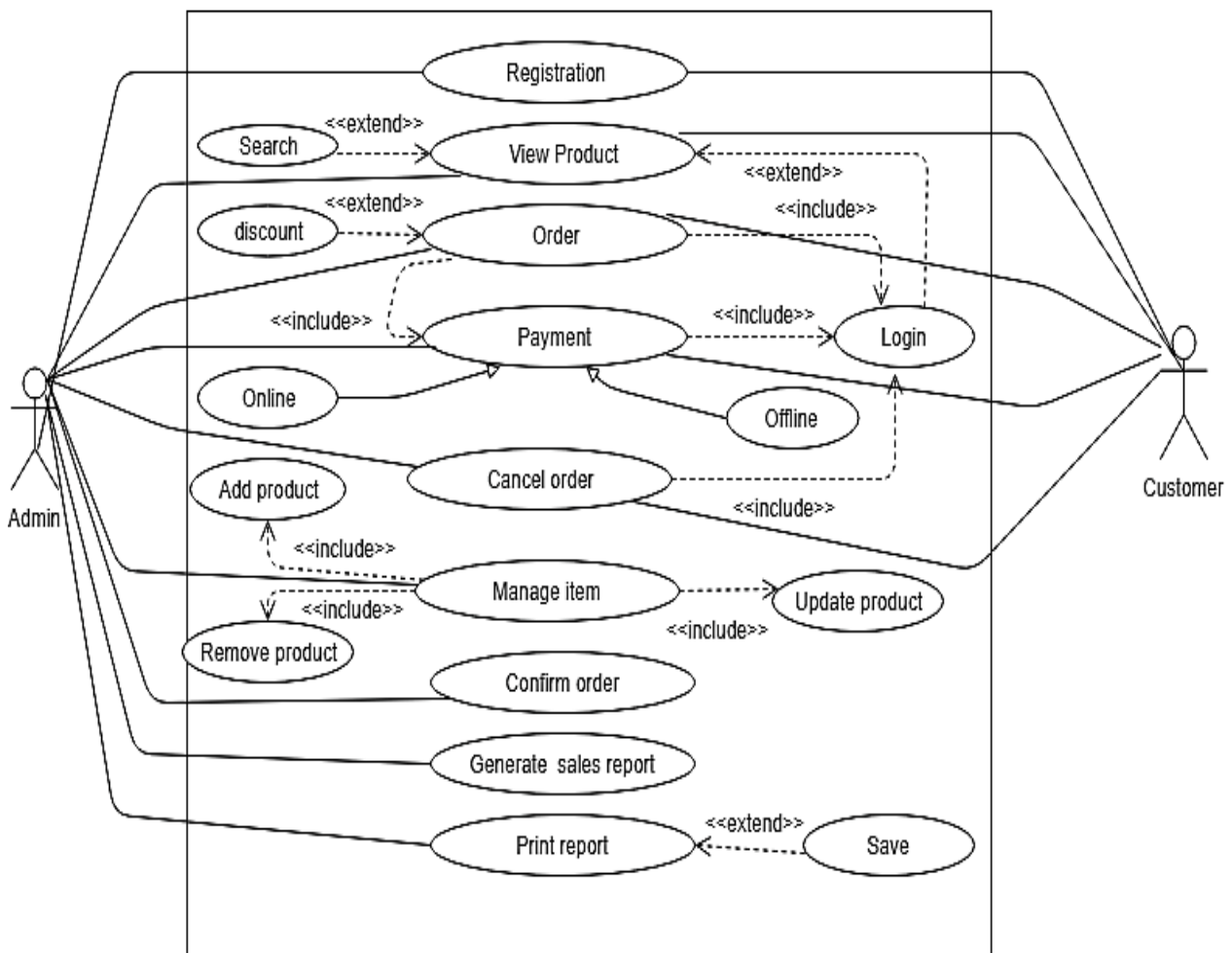


Figure 2-Use case Diagram

Ref: <https://creately.com/diagram/example/inoy9gxr1/online%20shopping%20system>

### 3.2 Use Case Description

<b>Use Case ID:</b>	UC001
<b>Name:</b>	Registration.
<b>Description:</b>	Need for accessing the system.
<b>Actor</b>	<ul style="list-style-type: none"> <li>● Admin</li> <li>● Customer.</li> </ul>
<b>Pre-condition</b>	All the information field must be filled up.
<b>Post-condition</b>	Get access to the system.
<b>Flow</b>	<ul style="list-style-type: none"> <li>● Provide all the information in registration form.</li> <li>● When all the information entered then press the sign up button.</li> <li>● System permits request and provides access to the system</li> </ul>
<b>Include</b>	None.

Table 2: Use Case Description (Registration)

<b>Use Case ID:</b>	UC002
<b>Name:</b>	View product.
<b>Description:</b>	All the products of the system shown here.
<b>Actor</b>	<ul style="list-style-type: none"> <li>● Admin</li> <li>● Customer</li> </ul>
<b>Pre-condition</b>	Visit to the website.
<b>Post-condition</b>	View all the products with their information.
<b>Flow</b>	<ul style="list-style-type: none"> <li>● Click the view product option.</li> <li>● View product information page.</li> <li>● Also can search the product.</li> </ul>
<b>Include</b>	None.

Table 3: Use Case Description (View product)

<b>Use Case ID:</b>	UC003
<b>Name:</b>	Order
<b>Description:</b>	Choose the product customers wants to buy.
<b>Actor</b>	<ul style="list-style-type: none"> <li>● Admin</li> <li>● Customer</li> </ul>
<b>Pre-condition</b>	View the product list and product information.
<b>Post-condition</b>	By the order confirmation customer pay for the product.
<b>Flow</b>	<ul style="list-style-type: none"> <li>● View the product from the product list.</li> <li>● Add products to cart.</li> <li>● If needed customer can update the cart.</li> <li>● Confirm the order.</li> <li>● Order information stored in system database.</li> </ul>
<b>Include</b>	Payment.

Table 4: Use Case Description (Order)

<b>Use Case ID:</b>	UC004
<b>Name:</b>	Payment.
<b>Description:</b>	It is an important functionality for confirm the order.
<b>Actor</b>	<ul style="list-style-type: none"> <li>● Admin</li> <li>● Customer</li> </ul>
<b>Pre-condition</b>	Choose the product and confirm the order.
<b>Post-condition</b>	Customer get the product.
<b>Flow</b>	<ul style="list-style-type: none"> <li>● Provide necessary information about payment.</li> <li>● For the valid user information confirm the payment.</li> <li>● Show payment confirmation message or send payment slip.</li> <li>● For any invalid information show message.</li> <li>● All the information stored in system database.</li> </ul>
<b>Include</b>	Login.

Table 5: Use Case Description (Payment)

<b>Use Case ID:</b>	UC005
<b>Name:</b>	Cancel order
<b>Description:</b>	If the product is not available or customer wants to remove the product from the cart.
<b>Actor</b>	<ul style="list-style-type: none"> <li>● Admin</li> <li>● Customer</li> </ul>
<b>Pre-condition</b>	Product add to cart and confirm the order.
<b>Post-condition</b>	Remove the product from order list.
<b>Flow</b>	<ul style="list-style-type: none"> <li>● View the item to the cart.</li> <li>● Remove item from the cart by the edit cart option.</li> <li>● Stored the information in system database.</li> </ul>
<b>Include</b>	Login.

Table 6: Use Case Description (Cancel order)

<b>Use Case ID:</b>	UC006
<b>Name:</b>	Manage item
<b>Description:</b>	Admin can add, remove or update the product to the product list.
<b>Actor</b>	<ul style="list-style-type: none"> <li>● Admin</li> </ul>
<b>Pre-condition</b>	Admin must be authorized or registered.
<b>Post-condition</b>	Add the new products and which product are not available in the stock can be removed.
<b>Flow</b>	<ul style="list-style-type: none"> <li>● First authorized admin visits the manage item option.</li> <li>● Add, remove or update the product information here.</li> <li>● All the information stored in the system database.</li> </ul>
<b>Include</b>	<ul style="list-style-type: none"> <li>● Add product</li> <li>● Remove product</li> <li>● update product</li> </ul>

Table 7: Use Case Description (Manage item)

<b>Use Case ID:</b>	UC007
<b>Name:</b>	Confirm order
<b>Description:</b>	Admin can confirm the order.
<b>Actor</b>	<ul style="list-style-type: none"> <li>• Admin</li> </ul>
<b>Pre-condition</b>	When payment is confirmed.
<b>Post-condition</b>	Admin delivery the product to the customer.
<b>Flow</b>	<ul style="list-style-type: none"> <li>• Admin view the order list.</li> <li>• If payment is confirming admin can confirm the order.</li> <li>• Store all the data to the system database.</li> <li>• If payment is not confirm admin send a notification message to the customer.</li> </ul>
<b>Include</b>	None.

Table 8: Use Case Description (Confirm order)

<b>Use Case ID:</b>	UC008
<b>Name:</b>	Generate sales report
<b>Description:</b>	Only admin can access the sales report.
<b>Actor</b>	<ul style="list-style-type: none"> <li>• Admin</li> </ul>
<b>Pre-condition</b>	Admin must be authorized.
<b>Post-condition</b>	Admin can generate the report and it helps for the next target fixing.
<b>Flow</b>	<ul style="list-style-type: none"> <li>• Payment confirmation data is recorder to the system.</li> <li>• Admin visit the report generate option.</li> <li>• All the sales record stored in the system database.</li> </ul>
<b>Include</b>	None.

Table 9: Use Case Description (Generate sales report)

<b>Use Case ID:</b>	UC009
<b>Name:</b>	Print report
<b>Description:</b>	Admin can print the sales report.
<b>Actor</b>	<ul style="list-style-type: none"> <li>• Admin</li> </ul>
<b>Pre-condition</b>	Admin must be authorized.
<b>Post-condition</b>	Printed document may help the admin to take a decision for increasing sales opportunities.
<b>Flow</b>	<ul style="list-style-type: none"> <li>• Admin visit the report generate option.</li> <li>• Print the sales report.</li> <li>• Admin also can download or save the sales report.</li> </ul>
<b>include</b>	None.

Table 10: Use Case Description (Print report)

### 3.3 Activity Diagram:

Activity diagram is another important diagram in UML to describe the dynamic aspects of the system. Activity diagram is basically a flowchart to represent the flow from one activity to another activity. The activity can be described as an operation of the system.

#### 3.3.1 Admin Perspective Activities:

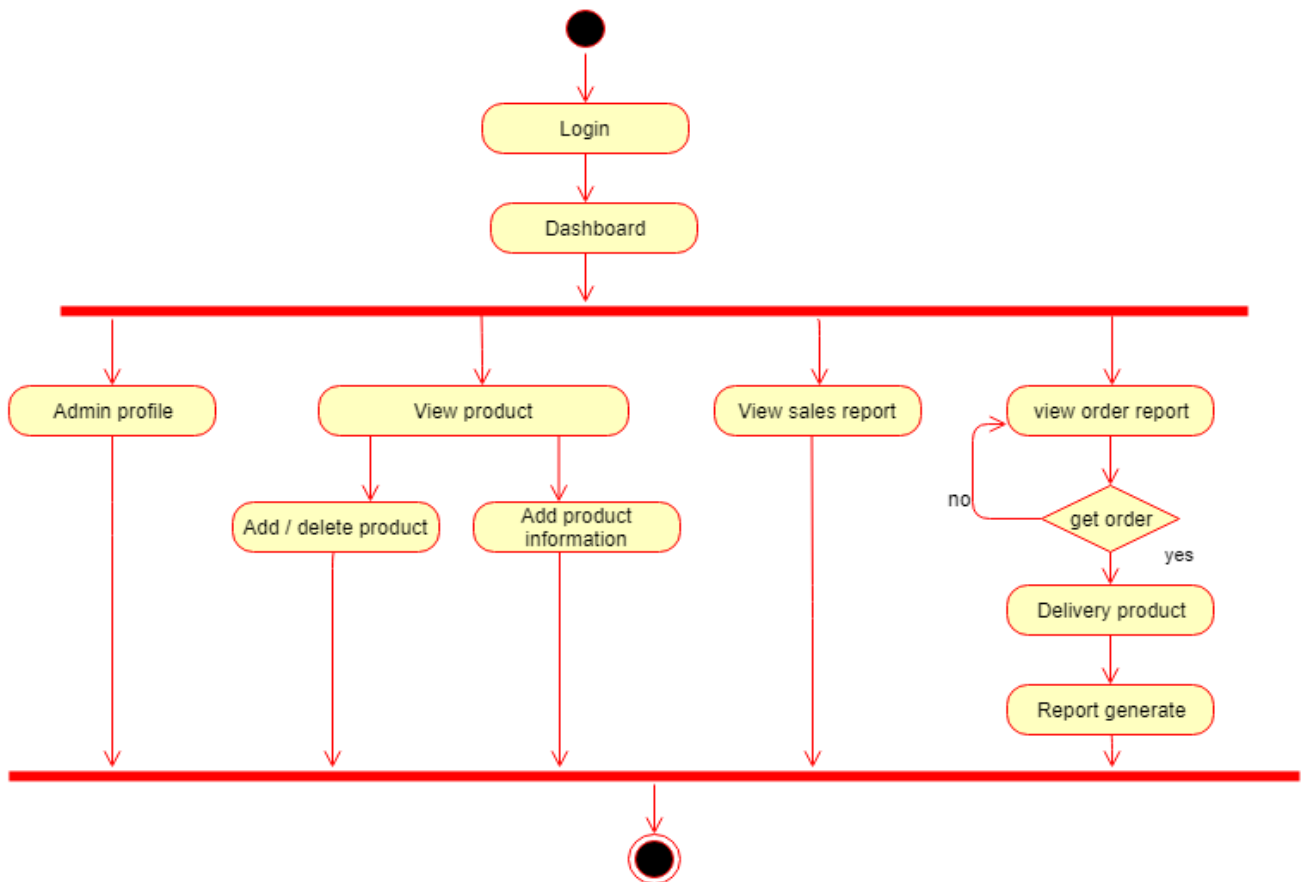


Figure 3 Admin Perspective Activities

### 3.3.2 Customer Perspective Activities:

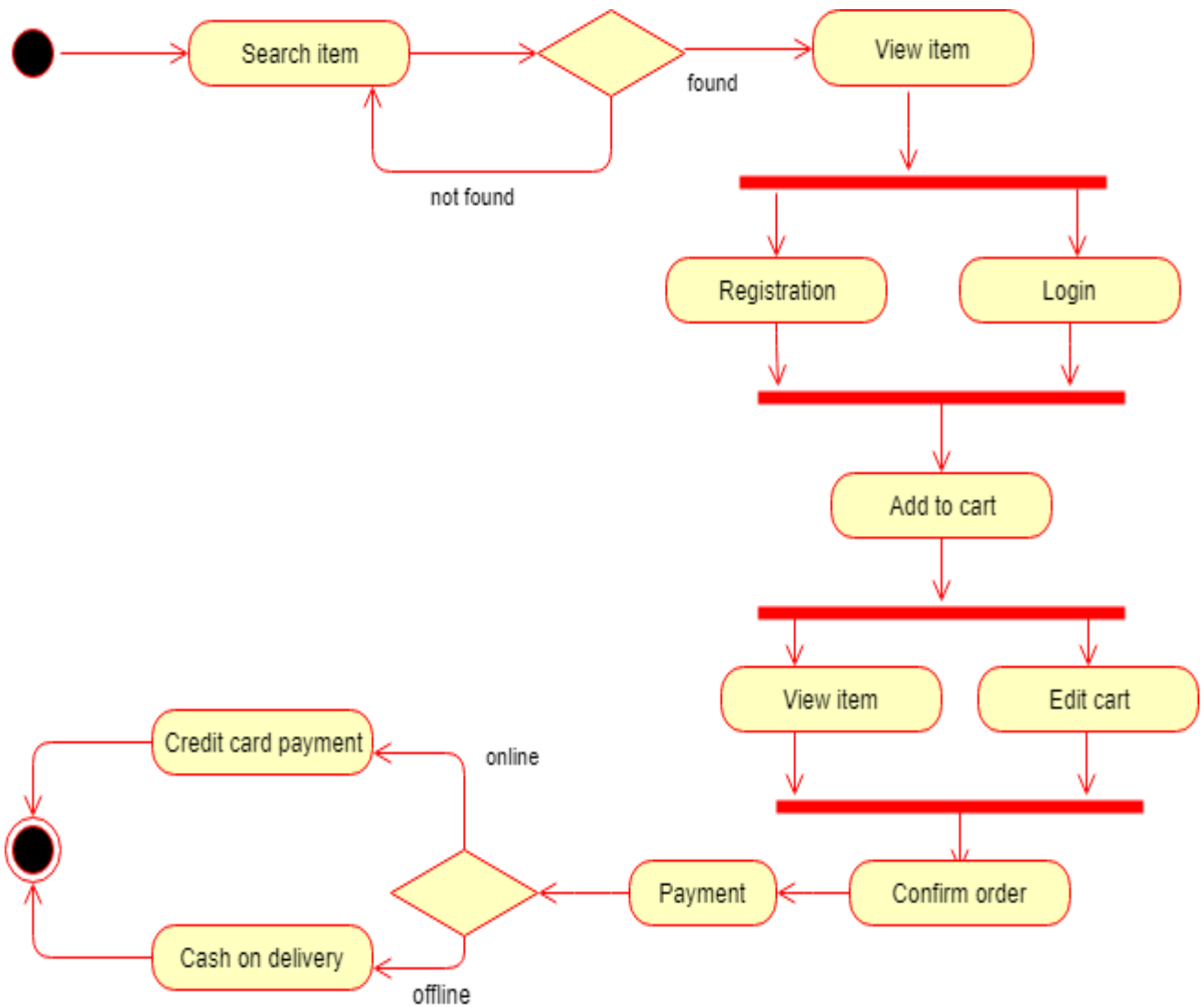


Figure 4: Customer Perspective Activities

Ref: <https://www.uml-diagrams.org/online-shopping-uml-activity-diagram-example.html>

### 3.3.4 System Sequence Diagram

Sequence diagrams of this information management system are:

- **Customer Registration:**

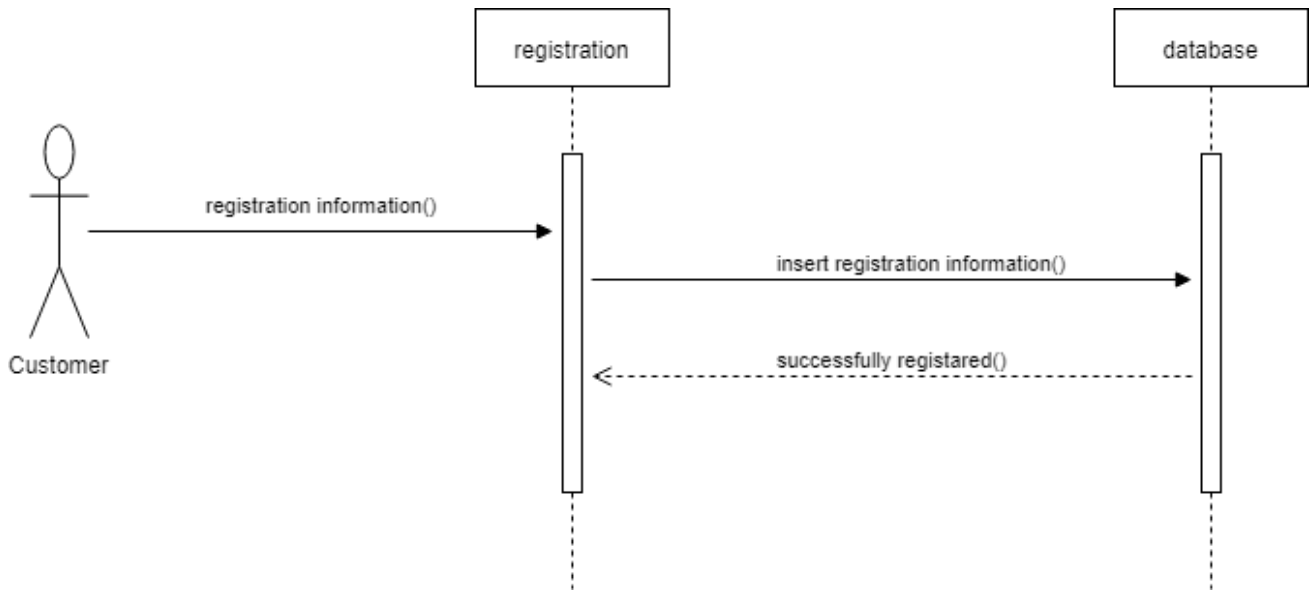


Figure 5: System Sequence Diagram (Customer Registration)

- **Customer Login:**

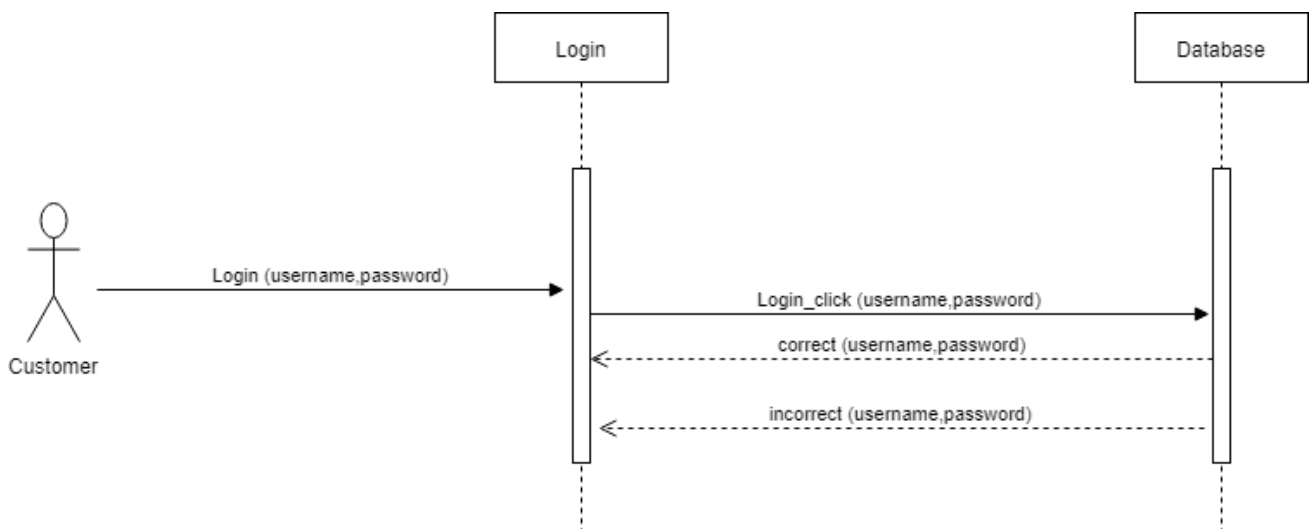


Figure 6: System Sequence Diagram (Customer Login)

- **Customer Order Product:**

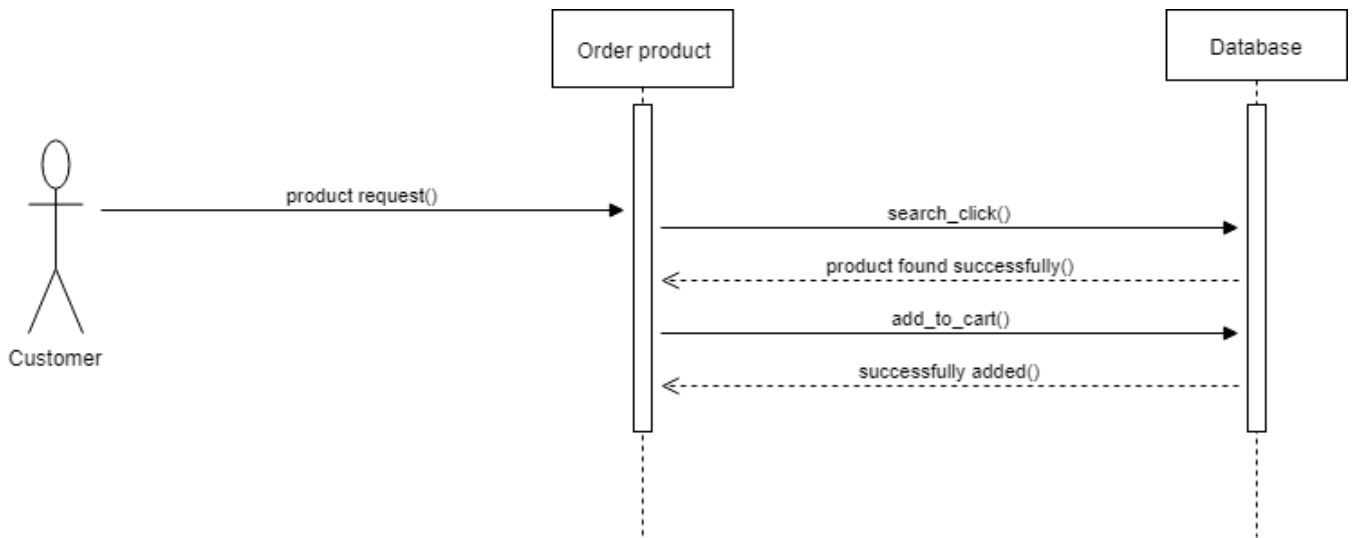


Figure 7: System Sequence Diagram (Customer Order Product)

- **Customer Payment:**

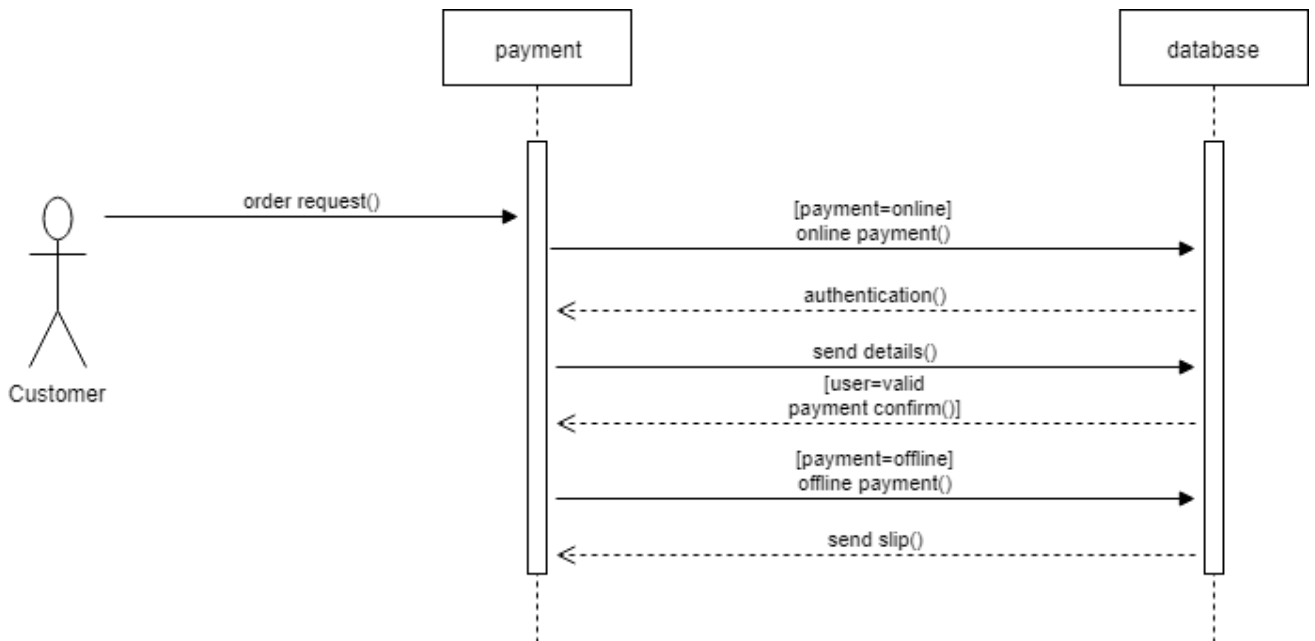


Figure 8: System Sequence Diagram (Customer Payment)



- **Admin Registration:**

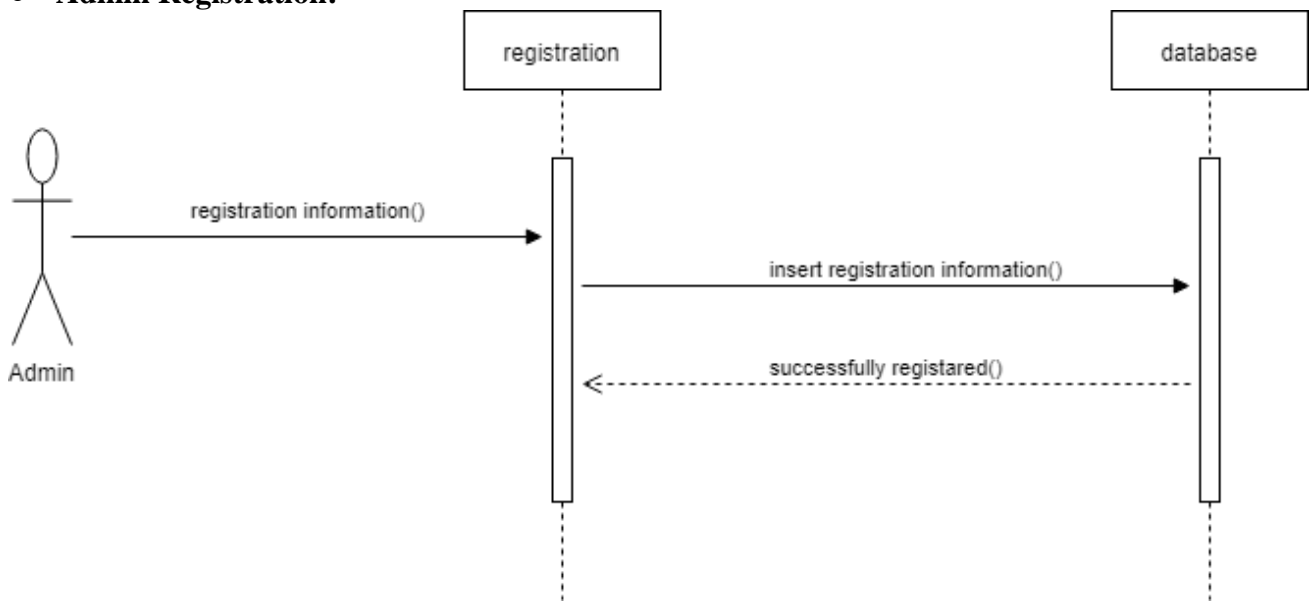


Figure 9: System Sequence Diagram (Admin Registration)

- **Admin Login:**

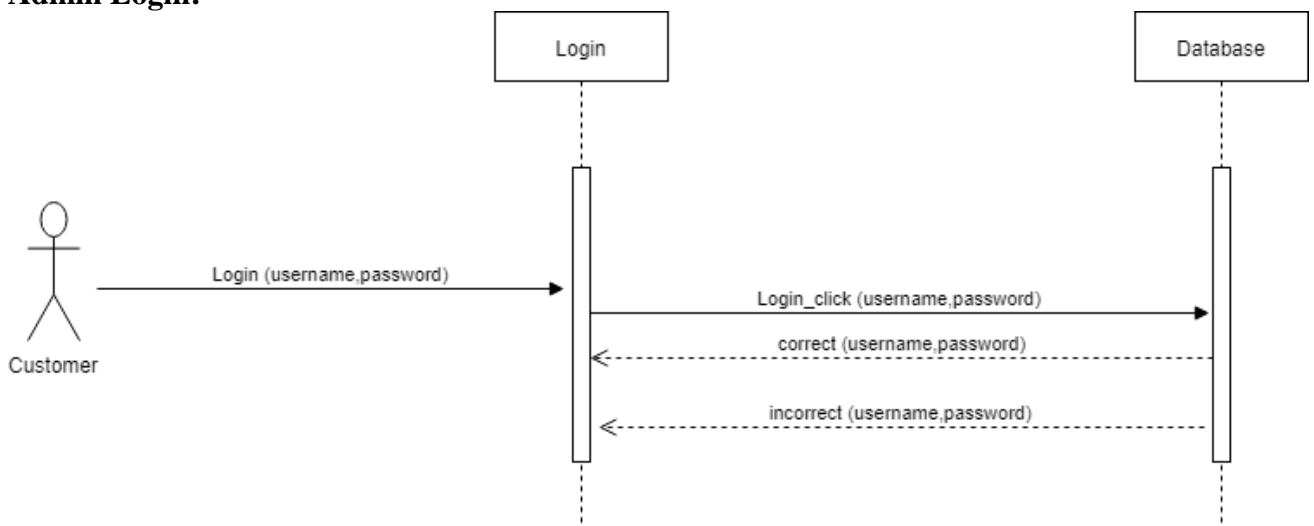


Figure 10: System Sequence Diagram (Admin Login)

- **admin Profile:**

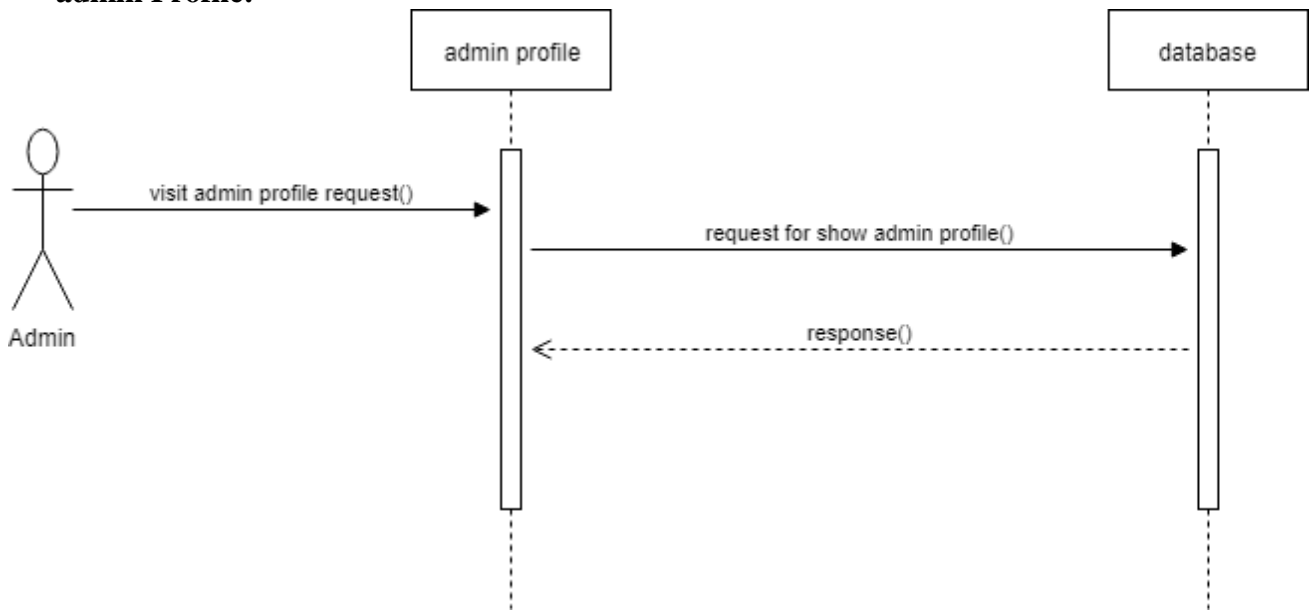


Figure 11: System Sequence Diagram (Admin Profile)

- **Admin Add Product:**

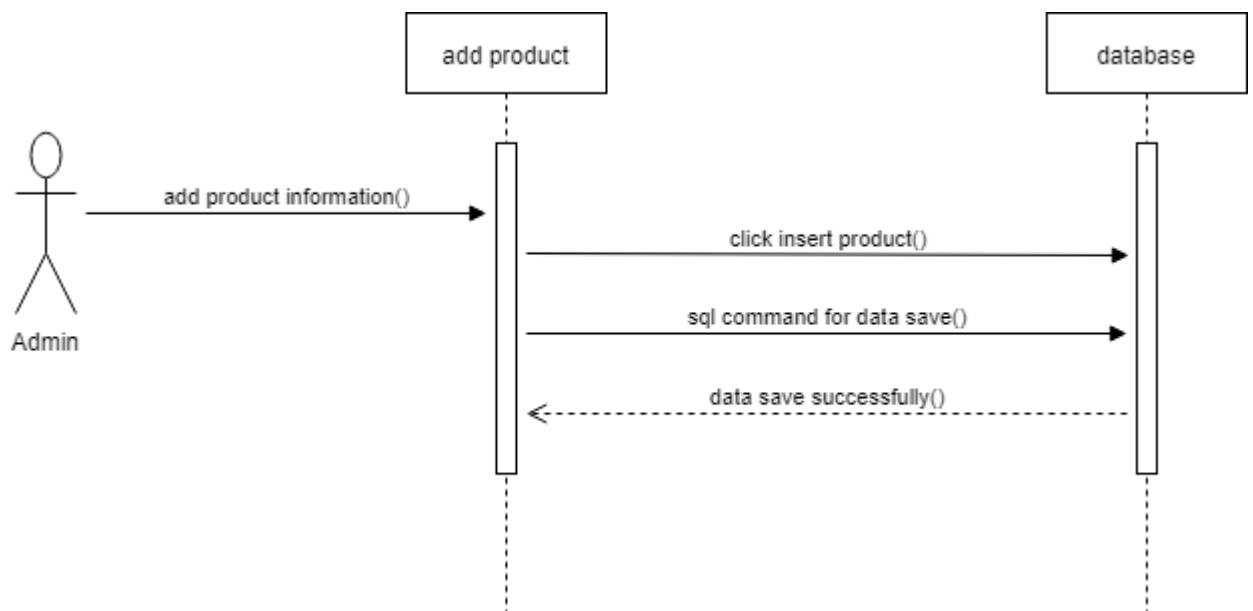


Figure 12: System Sequence Diagram (Admin Profile)

- **Admin Order Product:**

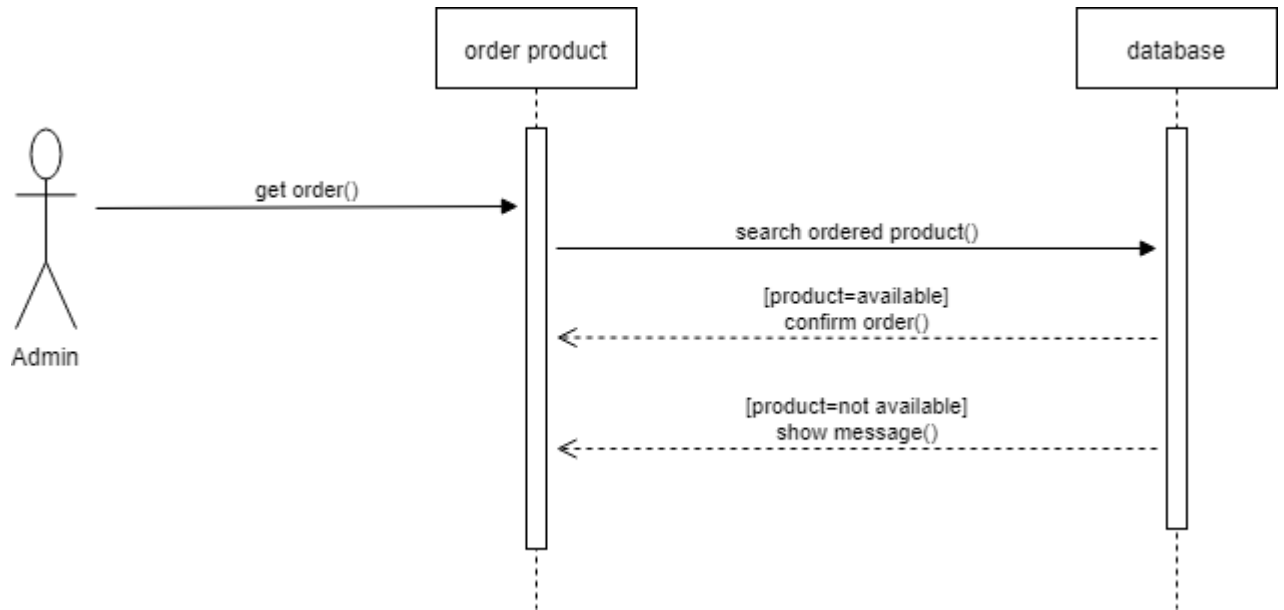


Figure 13: System Sequence Diagram (Admin Order Product)

- **Admin View Report:**

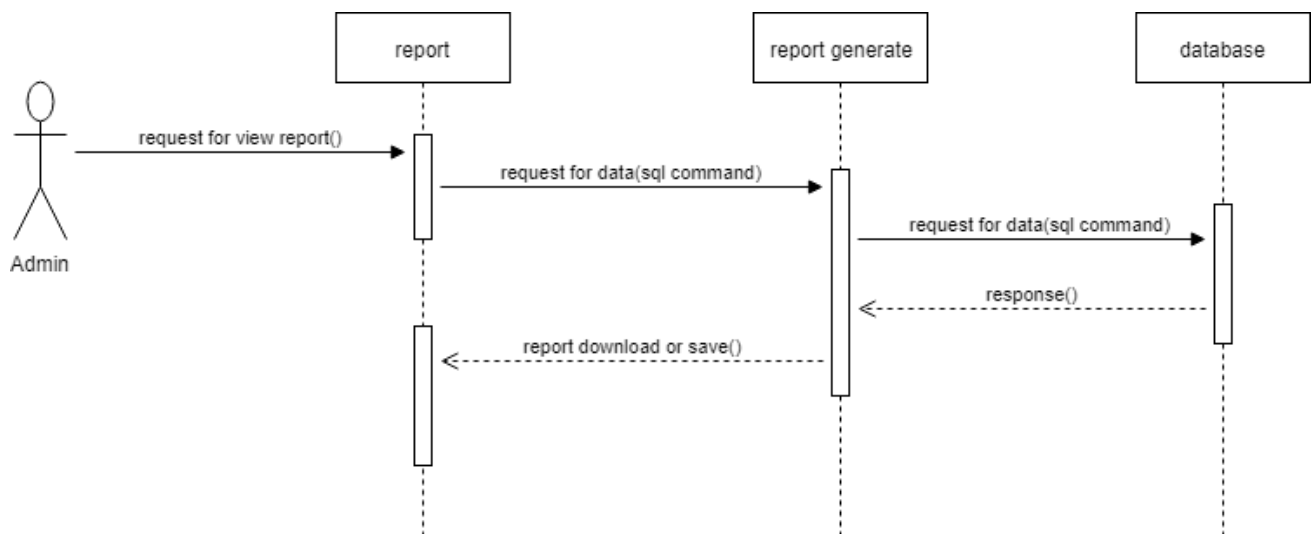


Figure 14: System Sequence Diagram (Admin View Report)

Ref: <https://creately.com/diagram/example/i914lhmr1/Online%20Shopping%20Sequence%20Diagram>

# Chapter 4

## System Design Specification

### 4. System Design Specification

#### 4.1 Sequence Diagram

- Admin

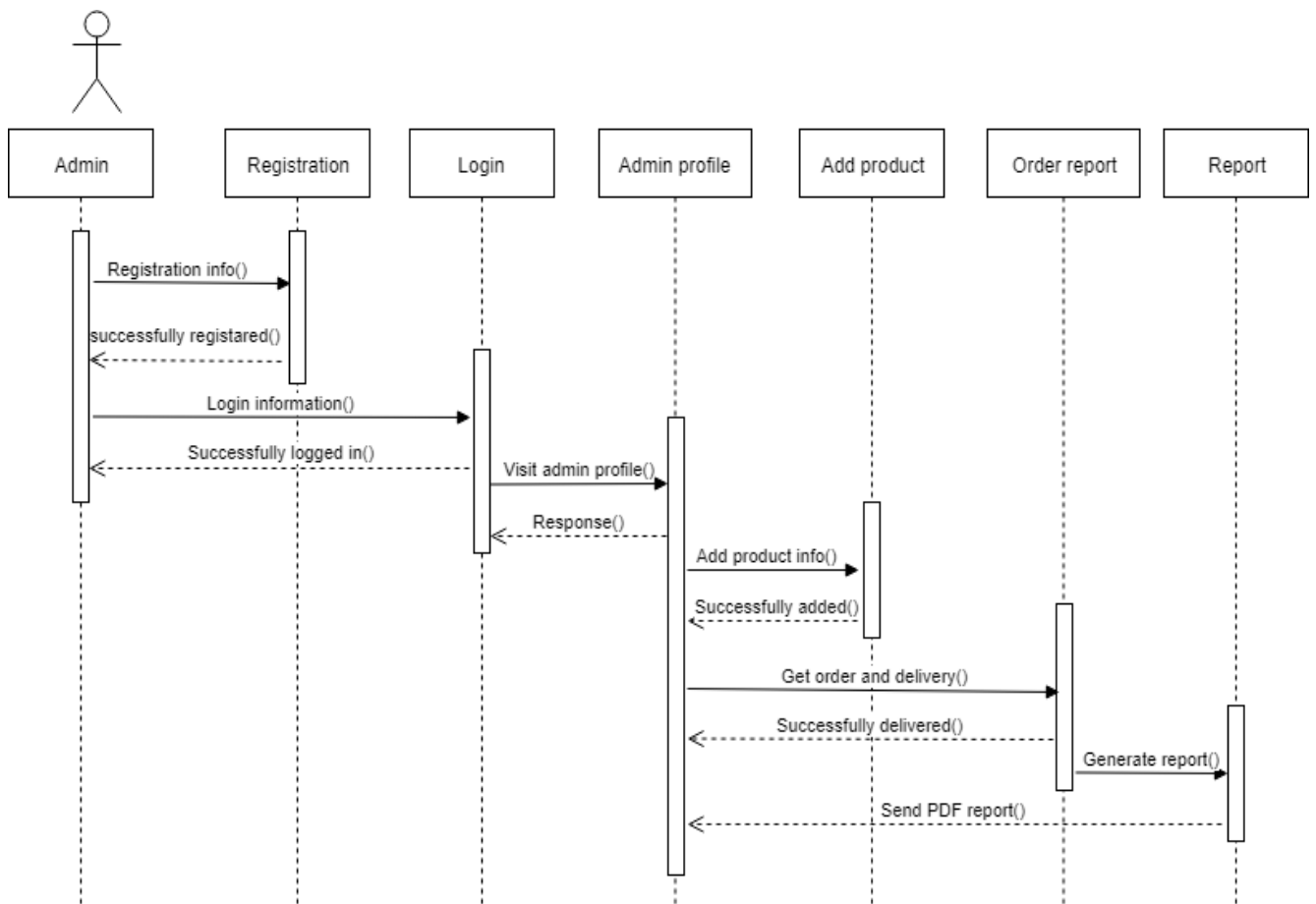


Figure 15: Sequence Diagram (Admin)

- Customer

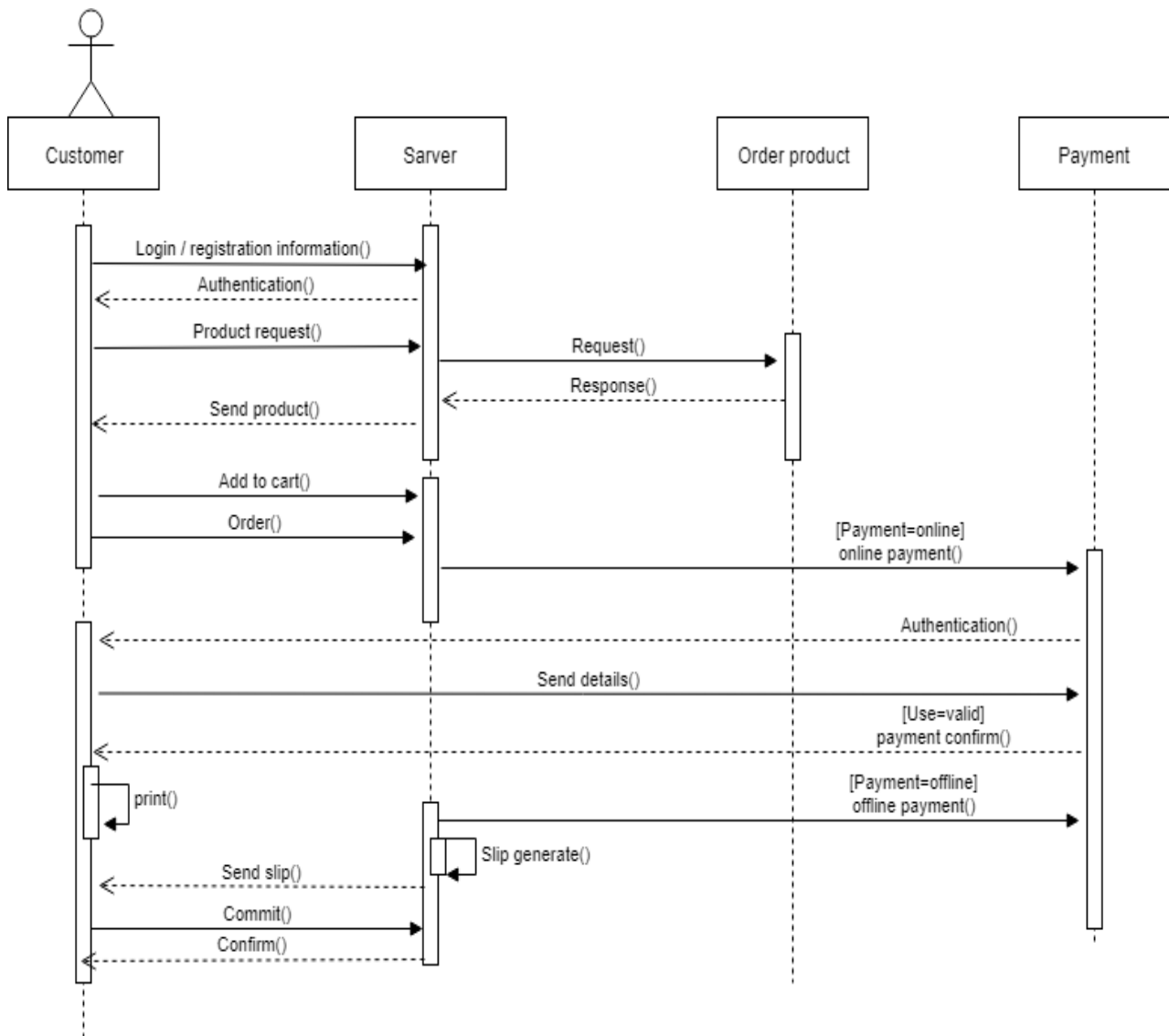


Figure 16: Sequence Diagram (Customer)

Ref: <https://creately.com/diagram/example/i914lhmr1/Online%20Shopping%20Sequence%20Diagram>

## 4.2 Class Diagram

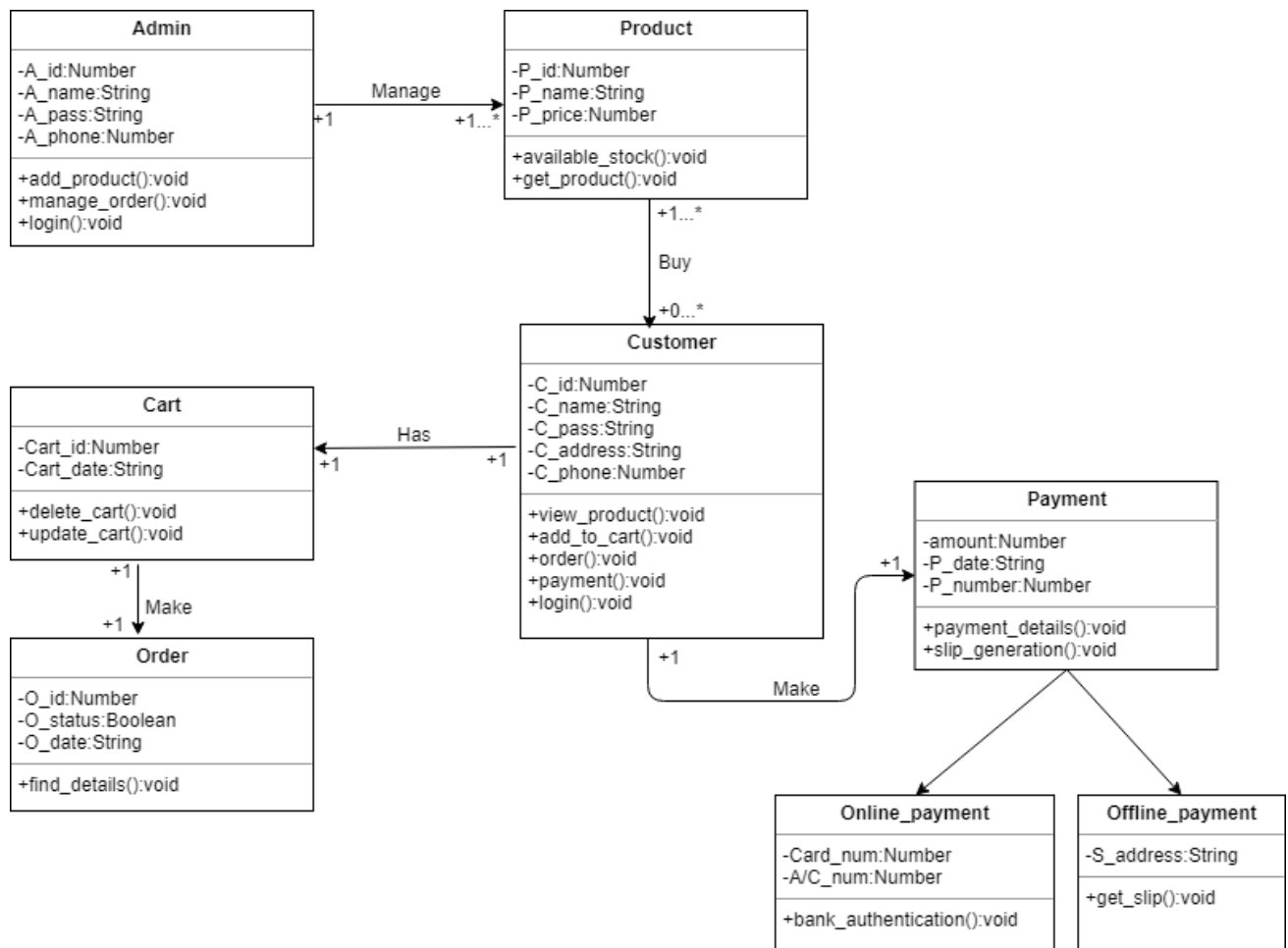


Figure 17: Class Diagram

Ref: <https://creately.com/diagram/example/ilah6jcy1/Class+Diagram+for+Online+Shopping+System>

### 4.3 Database Design Diagram (ER Diagram)

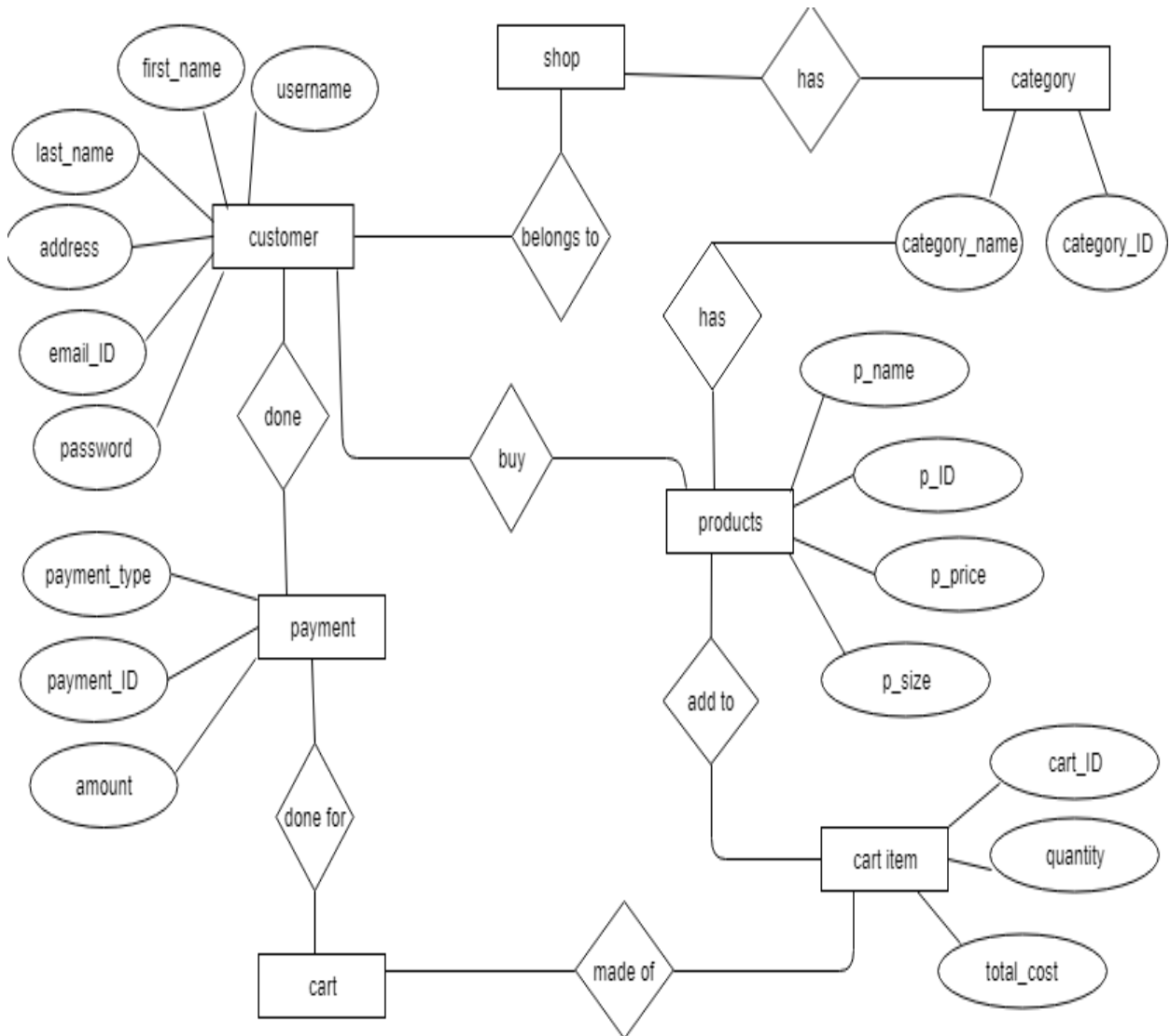


Figure 18: Database Design Diagram (ER Diagram)

Ref: <https://creately.com/diagram/example/hzvi5flu/ER%20Diagram%20for%20Online%20Shopping%20System>

## 4.4 Development Tools & Technology

This web application is developed based on PHP Laravel is used as core language. User interface of this system is developed based on CSS framework bootstrap and HTML and JavaScript. SQL Server is used as database management system and is used as integrated development environment. All types of validations are implemented by using HTML and Asp.Net control.

### 4.4.1 User Interface Technology

**4.4.1.1 Laravel Framework:** PHP Laravel Framework is the main language of our project. Our projects have been built based on the Laravel Framework. We are using this language for backend work. Using Laravel composer's version 1.8.0

**4.4.1.2 jQuery UI:** We're using jQuery to make our website's user view even better. For the user view even better. For the user to see a beautiful website. jQuery mainly use to front end design.

**4.4.1.3 CSS Framework:** We're using CSS to make our website's colorful because of a visitor customer like to colorful website. If we're not use CSS our website is looking ugly.

**4.4.2.1 PHP Storm:** We're using JetBrains PhpStorm version 2017.3.3. We develop our project in that platform. Because of JetBrains PhpStorm Library has a huge resource.

**4.4.2.2 MySQL Community Server:** We're using localhost Server: 127.0.0.1 via TCP/IP. Server type: MariaDB. Server version: 10.1.36-MariaDB-mariadb.org binary distribution. Protocol version: 10. User: root@localhost



# CHAPTER 5

## System Testing

### 5. System Testing

#### 5.1 Testing Features

##### 5.1.1 Features to be tested

- Registration
- User Login
- Order

##### 5.1.2 Features not to be tested

- Mange profile
- View Product
- View Sales Report

#### 5.2 Testing Strategies

A testing strategy is a general approach to the testing process rather than a method of devising particular system or component tests. Different testing strategies may be adopted depending on the type of system to be tested and the development process used

##### 5.2.1 Pass/Fail Criteria

Test Case Module-1: Registration

###### 5.2.2.1. State Transition Diagram

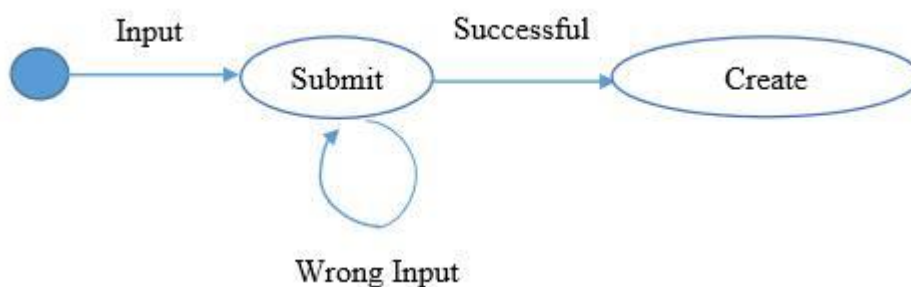


Figure 19: State Transition Diagram (Registration)

### 5.2.2.2 Test Case Table

Test Case ID: TC_ASS_1	Test Design by: Sadia Afrin Mim
Test Priority: High	Test Design Date: 19.11.2018
Module Name: Registration	Test Execute by: Tasnova Jarin Tonny
Description: This section covers the functionality of registering new users.	Test Execute Date: 20.11.2018

Table 11: Test Case Registration

Precondition: User has no precondition

Dependencies: Enter input required information

Step	Test cases	Test data	Expected result	P/f	Actual result
01	Enter empty value for any required field		Display error message	Pass	Display error message
02	Enter non-numeric value in Contact Number field	rdfghb	Don't take non-numerical values	Pass	Don't take non-numerical values
03	Enter password min 4 & max 6 characters long	123456	Display error message "Password length must be 4-6 characters"	Pass	Display error message "Password length must be 4-6 characters"
04	Enter duplicate User ID		Display error message "User already exist."	Pass	Display error message "User already exist."
05	New user registration		Display message "Your profile has been recorded successfully registered"	Pass	Display message "Your profile has been recorded successfully registered"

Table 12: Test Case result

# CHAPTER 6 USER MANUAL

## 6. User Manual

### 6.1 Web View:

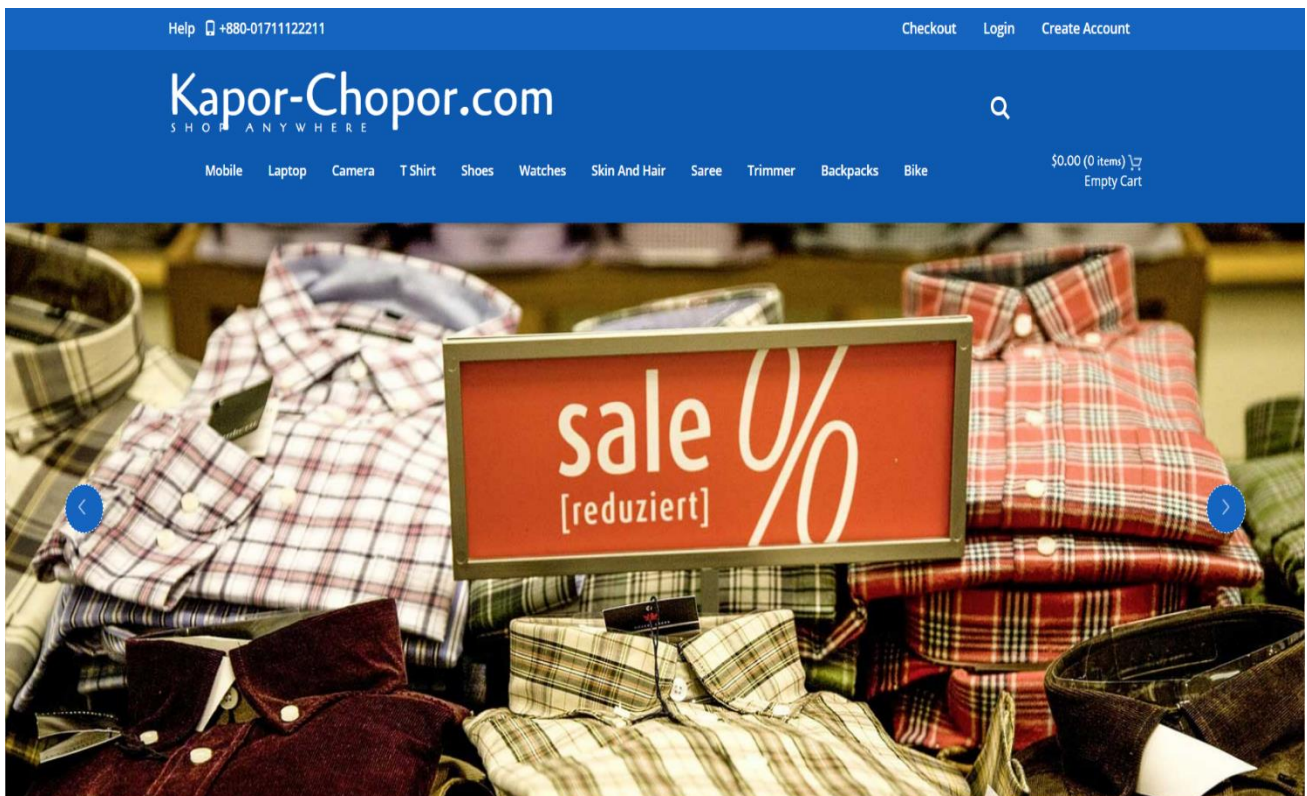


Figure 20: User Manual (Web View)

## 6.2 New Arrival

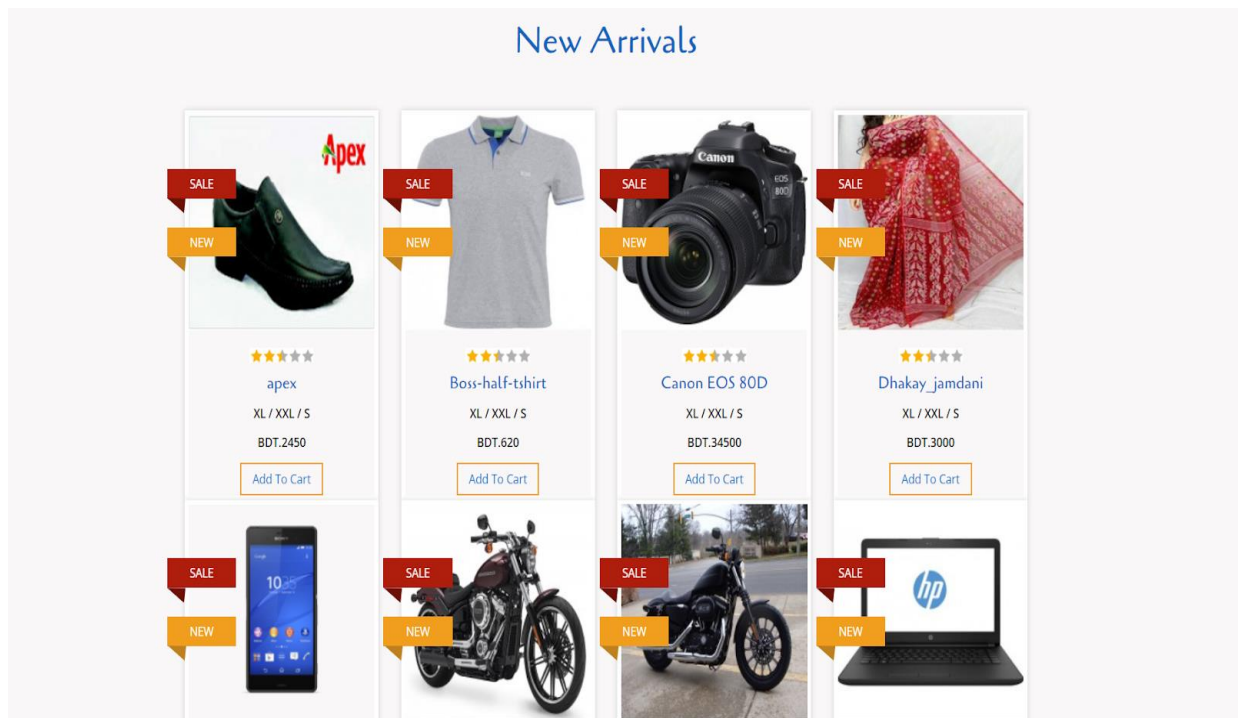
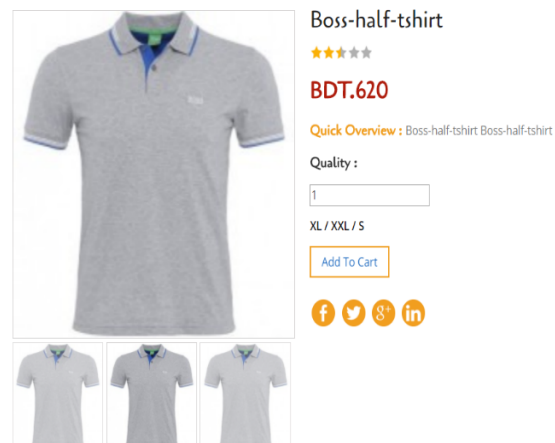


Figure 21: User Manual (New Arrival)

## 6.3 Product Description:



### Product Description

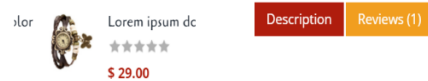


Figure 22: User Manual (Product Description)

## 6.4 Product Cart:

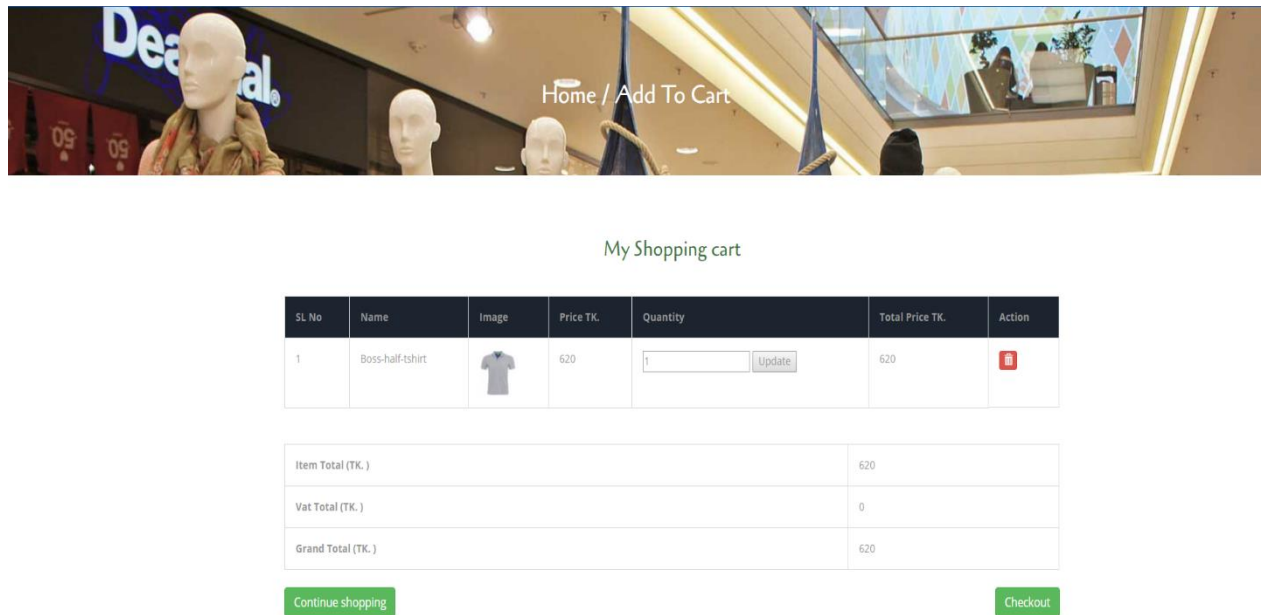


Figure 23: User Manual (Product Cart)

## 6.5 Customer Registration:

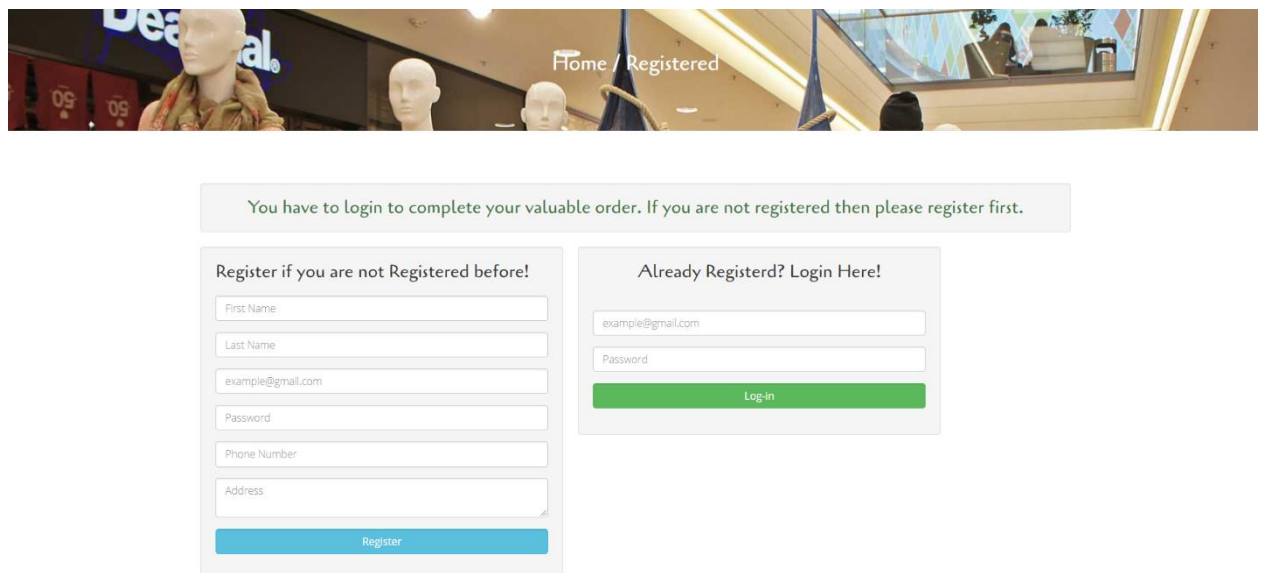


Figure 24: User Manual (Customer Registration)

## 6.6 Admin Interface:

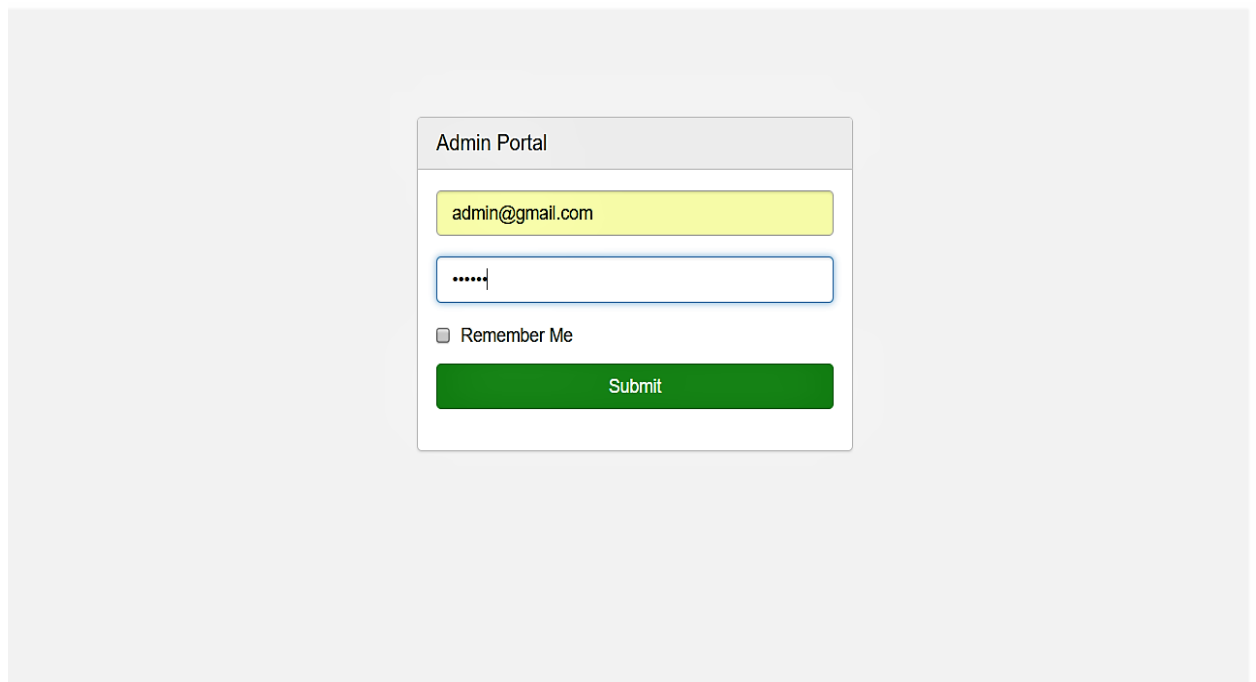


Figure 25: User Manual (Admin Interface)

## 6.7 Product Add:

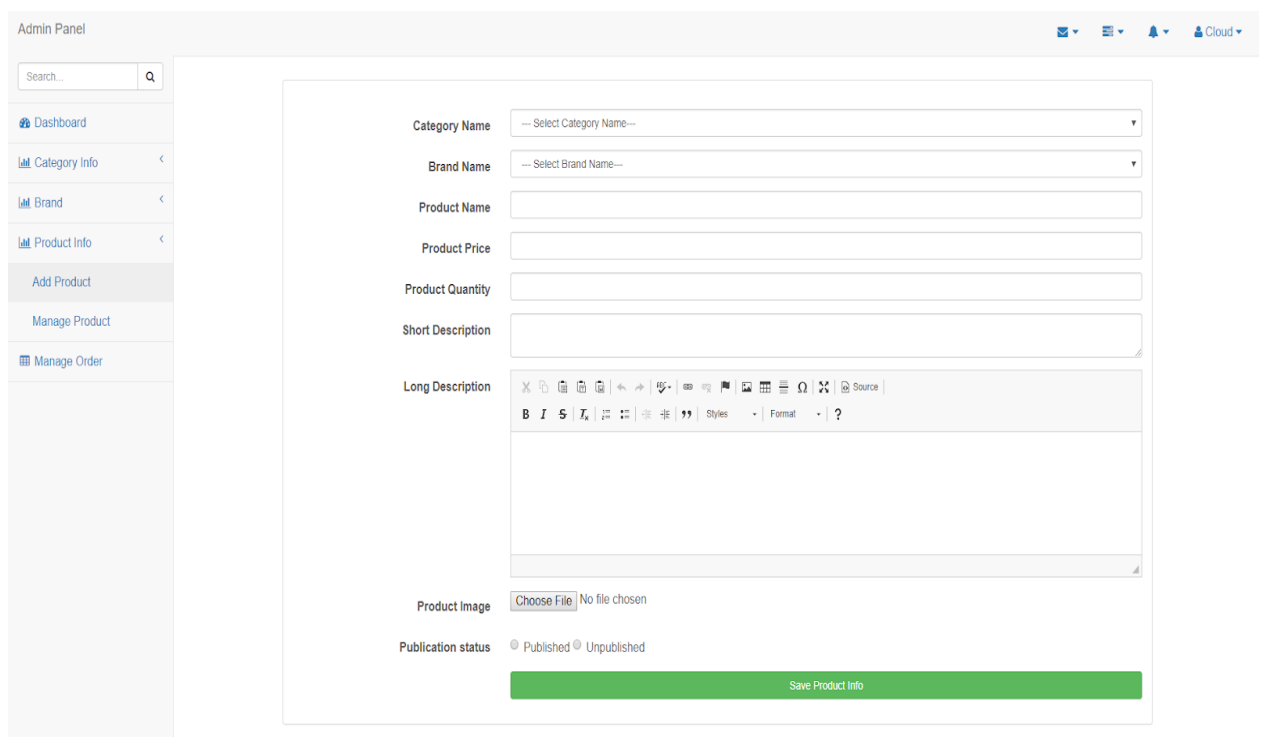


Figure 26: User Manual (Product Add)

# CHAPTER 7

## PROJECT SUMMARY

### 7. Project Summary

#### 7.1 GitHub Link

[https://github.com/sadia\\_1055/Php-Project/tree/master/Shopping\\_Cart](https://github.com/sadia_1055/Php-Project/tree/master/Shopping_Cart)

#### 7.2 Limitations

- Delay in delivery.
- Lack of significant discounts in **online** shops.
- Lack of touch and feel of merchandise in **online shopping**.
- Lack of interactivity in **online shopping**.
- Lack of **shopping** experience.
- Lack of close examination in **online shopping**.
- Frauds in **online shopping**.

#### 7.3 Obstacles & Achievements

- Finding the right products to sell
- Attracting the perfect customer
- Generation targeted traffic
- Capturing quality leads
- Retaining customers
- Choosing the right technology & partners
- Converting shoppers into paying customers

#### 7.4 Future Scope

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



## 8. REFERENCE:

- <https://creately.com/diagram/example/inoy9gxr1/online%20shopping%20system>
- <https://creately.com/diagram/example/hzvi5flu/ER%20Diagram%20for%20Online%20Shopping%20System>
- <https://www.uml-diagrams.org/online-shopping-uml-activity-diagram-example.html>
- <https://creately.com/diagram/example/i914lhmr1/Online%20Shopping%20Sequence%20Diagram>
- <https://creately.com/diagram/example/ilah6jcy1/Class+Diagram+for+Online+Shopping+System>
- <https://creately.com/diagram/example/h5eztue1/online%20shop>