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AND
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1. Introduction

E-commerce is a web based application or mobile application implemented for easy to access product or services around the corner of world, buy, sell, chat, transact, get service and maintains records. Using record we can track customer and inform customize and future offers and discounts. Legal contract department prepare policy contract and sends to customer after payment has received from the customer.

Document Purpose

Defining and describing the functions and specifications of the Book E-Commerce System is the primary goal of this Software Requirements Specification (SRS). This Software Requirements Existing system for a society is based on our traditional way keeping records and details on paper and registers. Access of these details and papers are not granted to common member in absence of the authority. It is hard to manage all the society system with pen and paper. It gets really hard to maintain the records and then keep track of past records. Hence this system is proposed to overcome the flaws of the existing system and giving power to the admin of the society so that he/she will be able to manage the society easily.

Product Scope

Electronic commerce draws on such innovations as electronic funds transfer, supply chain management, Internet marketing, online exchange preparing, Electronic Data Interchange (EDI), inventory frameworks, and computerized information assortment frameworks.

- J2EE Technology used for the development of the application.
- General customers as well as the sellers will be able to use the system effectively.
- Web-platform means that the system will be available for access 24/7 except when there is a temporary server issue which is expected to be minimal.

Aims & Objectives

Specific goals are: -

- To produce a web-based system that allow the admin to add users,managers and provide functionalities to its role.
- To ease customers by providing different functionalities to it.
- To ease managers to add a products which can be buy from customers.
-

2 Overall Description

Product Perspective:

2.1.1 Existing system function:

Existing system for a business is based on our traditional way keeping records and details on paper and registers. There were no online payment options . security was not there for selling and buying . All records of user were not kept effectively. Products sale and product buy by customer record were not properly maintained.

The architecture of the existing system was basically manual oriented. The system was initially developed to cater for the products in the business area. The system was dimmed efficient during the initial stage of its establishment. The system caters for all the products owned by the business man. The objectives of the system were borne out of the fact that, business man cannot exhaustively make his products visible to his clients; therefore there is a need for the clients to search for more information of his products and services

III. PROPOSED SYSTEM

The newly proposed system is computer driven. The system is a modification of the various functions of the previous system, with better and efficient routine execution. The design takes into cognizance the input, output and the speed of processing information. The major factors considered during the design are the input and the output, which was the main problem of the previous system.

Users and Characteristics:

Admin:

- Admin can login to the system.
- Admin can add users ,managers.
- Admin can delete user ,manager
- Admin can update user, manager
- Admin can add category
- Admin can add products
- Admin can delete products
- Admin can delete categories

Manager:

- Manager can login to the system.
- View his/her details.
- Add categories.
- Delete categories.
- Update categories.
- Add/update/delete products.

Users:

- User can register.
- Users can login.
- Users can view products.
- Users can search products by category, all .
- Users can add products to cart .
- Users can buy products.

Operating Environment:

Server Side:

Processor: Intel® Xeon® processor 3500 series

HDD: Minimum 500GB Disk Space

RAM: Minimum 2GB

OS: Windows 10. Linux 6

Database: mysql

Client Side:

Processor: Intel Dual Core

HDD: Minimum 80GB Disk Space

RAM: Minimum 1GB

OS: Windows 10, Linux

Design and Implementation Constraints:

- The application will use spring boot, thymleaf, spring security main web technologies.
- HTTP and FTP protocols are used as communication protocols. FTP is used to upload the web application in live domain and the client can access it via HTTP protocol.
- Several types of validations make this web application a secured one and SQL Injections can also be prevented.
- Since E-commerce is a web-based application, internet connection must be established.

3. REQIRENMENTS

3.1 Functional Requirements

3.1.1 The system should enable customers ,admin and managers to log in.

• They shall enter their username and password.
• The information given shall be valid.
• Access shall be granted/denied.

3.1.2 The system should enable users and managers to register.

- In the case of user collect user information (Names, Date of birth, address, telephone, email, password etc.).
- In the case of manager collect (Names, email, password, Date of birth, gender, category, address, telephone etc.).
- information is valid:
- Password is not empty.
- Password
- Check if and confirm password is same.
- Email hasn't been used before.
- If information is valid save and add user to database

3.1.3 The system should enable users and managers to log out.

- Log user out when user clicks on log out button.

3.1.4 The system should allow customers to view add to cart items.

- The system shall check if the customer is logged in or not.
- The customer shall select the product .
- The customer shall add product to cart.
- the customer can search product by category.

3.1.5 The system should allow customers to modify or cancel their items.

- The system shall allow cart to be modified.
- The users can modify there details like mobile no ,email etc.
- The system shall make the necessary updates after changes have been made.

3.1.6 The system should allow Customers and managers to view and modify their profile.

- They shall enter the new information.
- This information then replaces the old information in database.

3.1.7 The system should allow managers to set their details.

- The managers will add ,update ,delete his details.
- This information is saved in the database.

3.1.8 The system should enable administrator to log in.

- The user shall enter their username and password.
- The information given shall be valid.
- Access shall be granted/denied.

3.1.9 The system should allow administrator to manage Users.

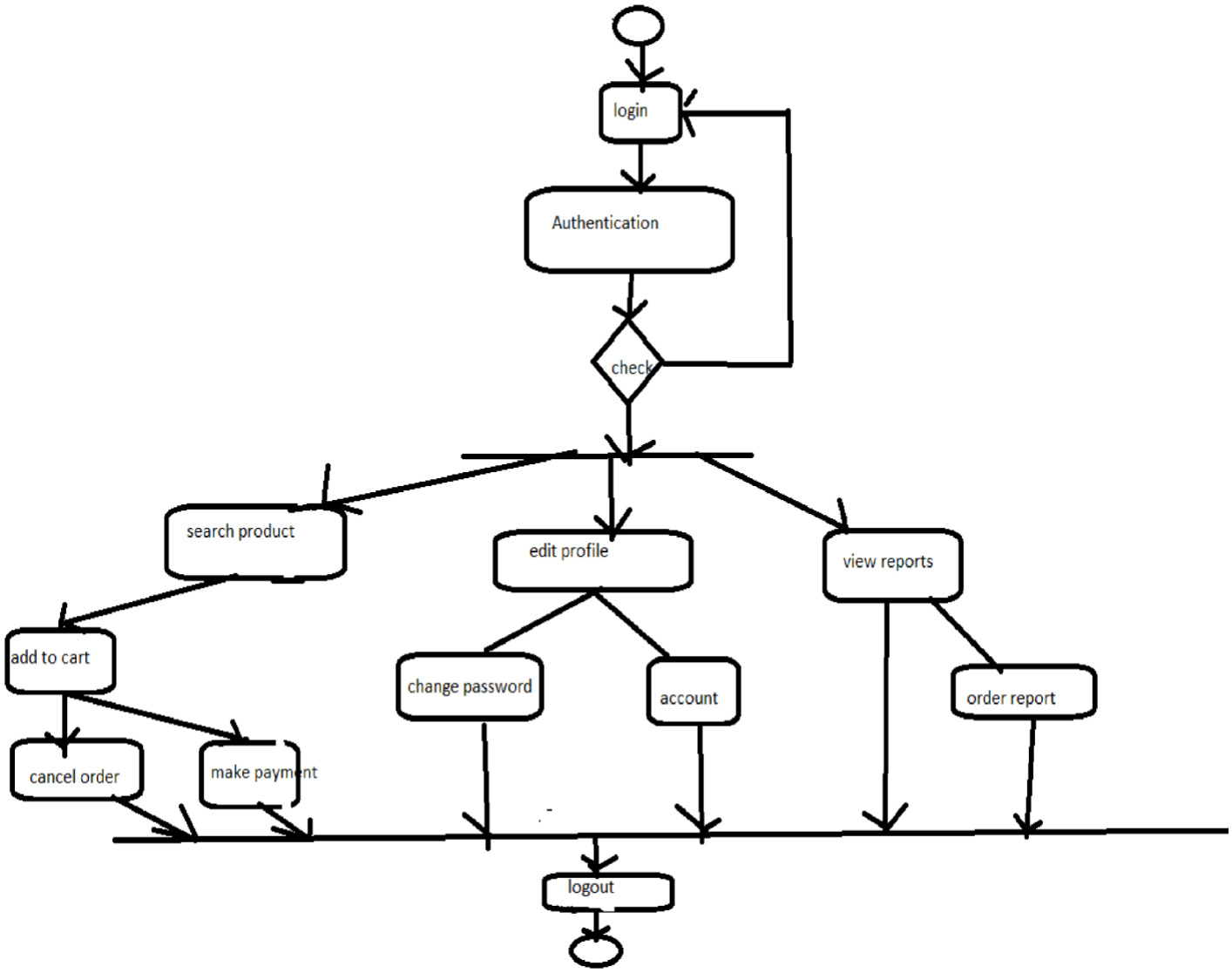
- The system enable administrator to access database and add new customers.
- The system enable administrator to delete any user due to some rules from database.
- The system enable administrator to change customer’s or business’s information.

3.1.10 The system should allow administrator to delete add managers users.

- Admin can add ,delete users managers details.

Activity Diagram

Figure 1: Activity Diagram for user



Data Flow Diagram

Figure : Level 0 Data Flow Diagram

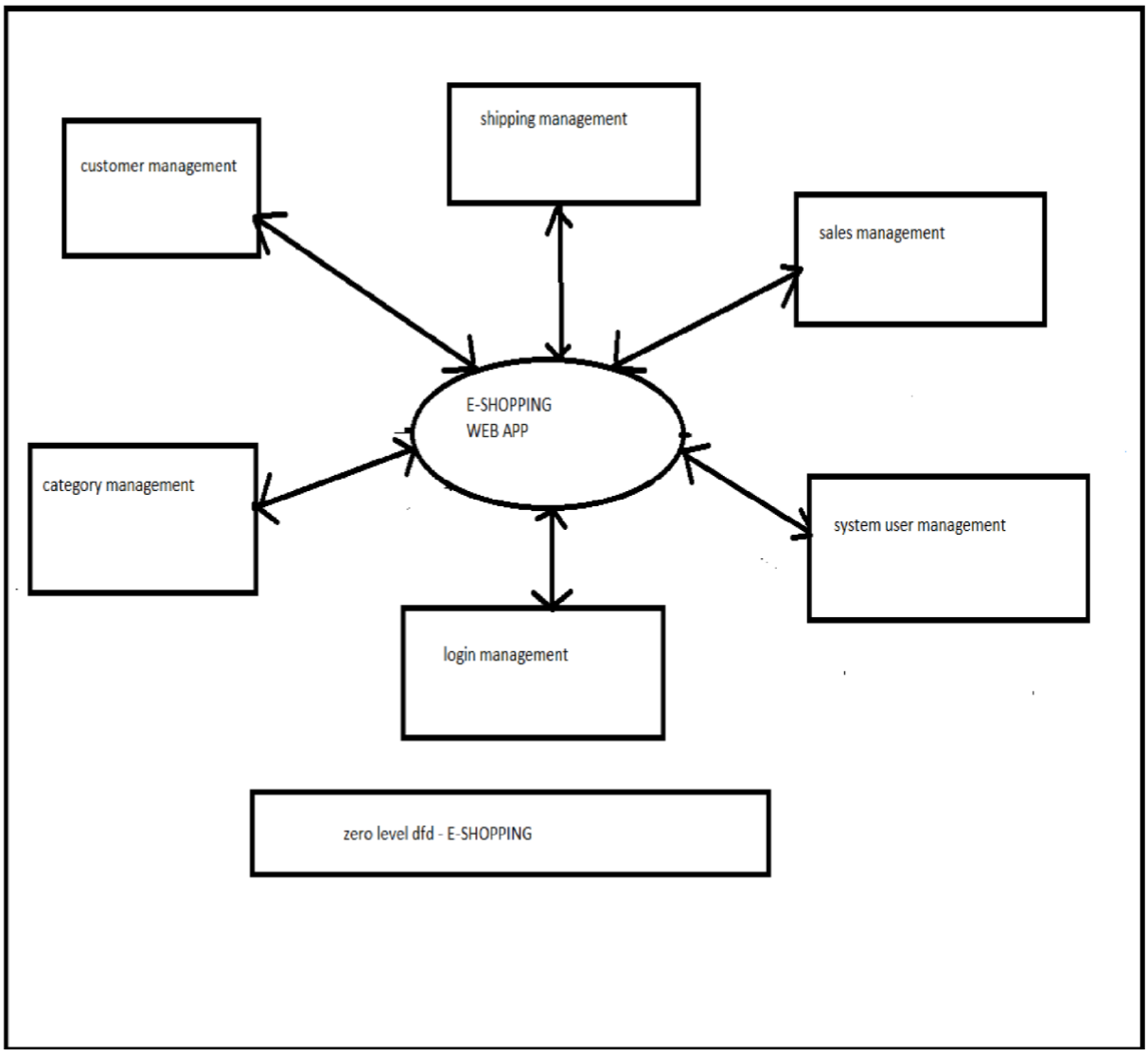


Figure : Level 1 Data Flow Diagram

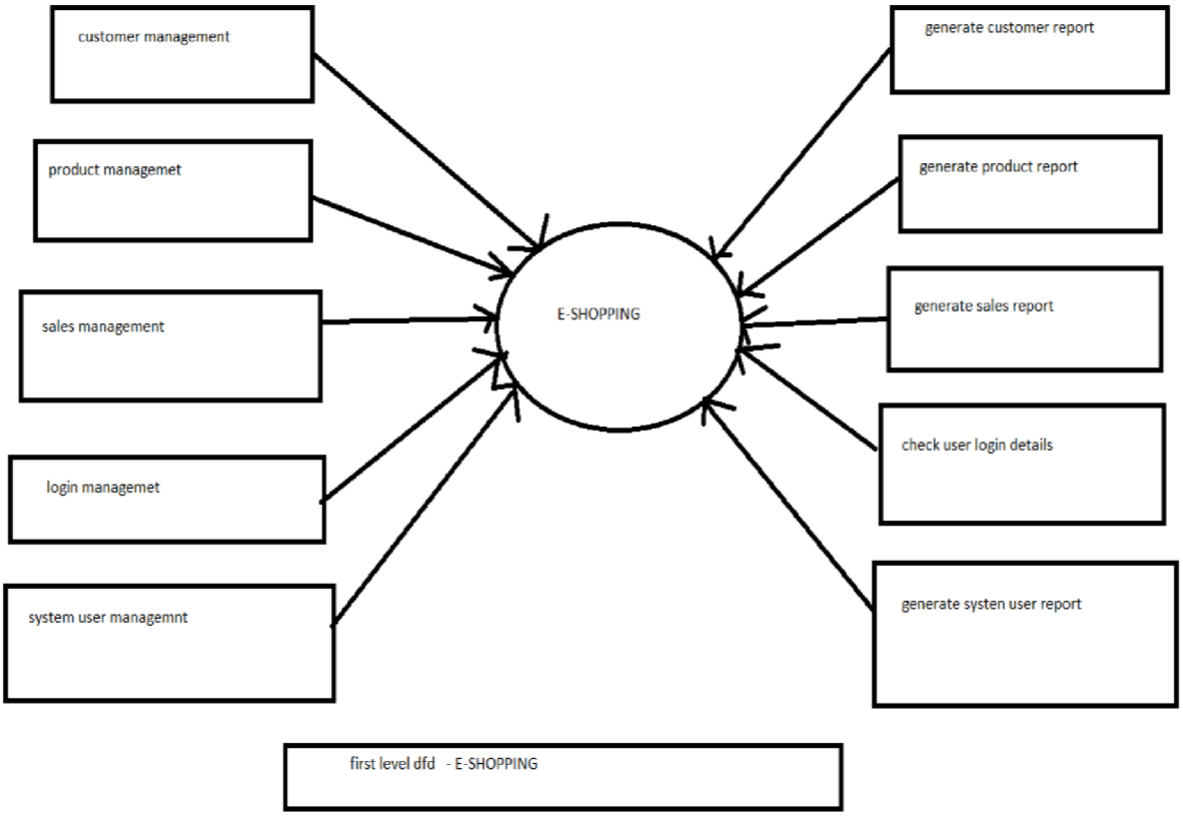
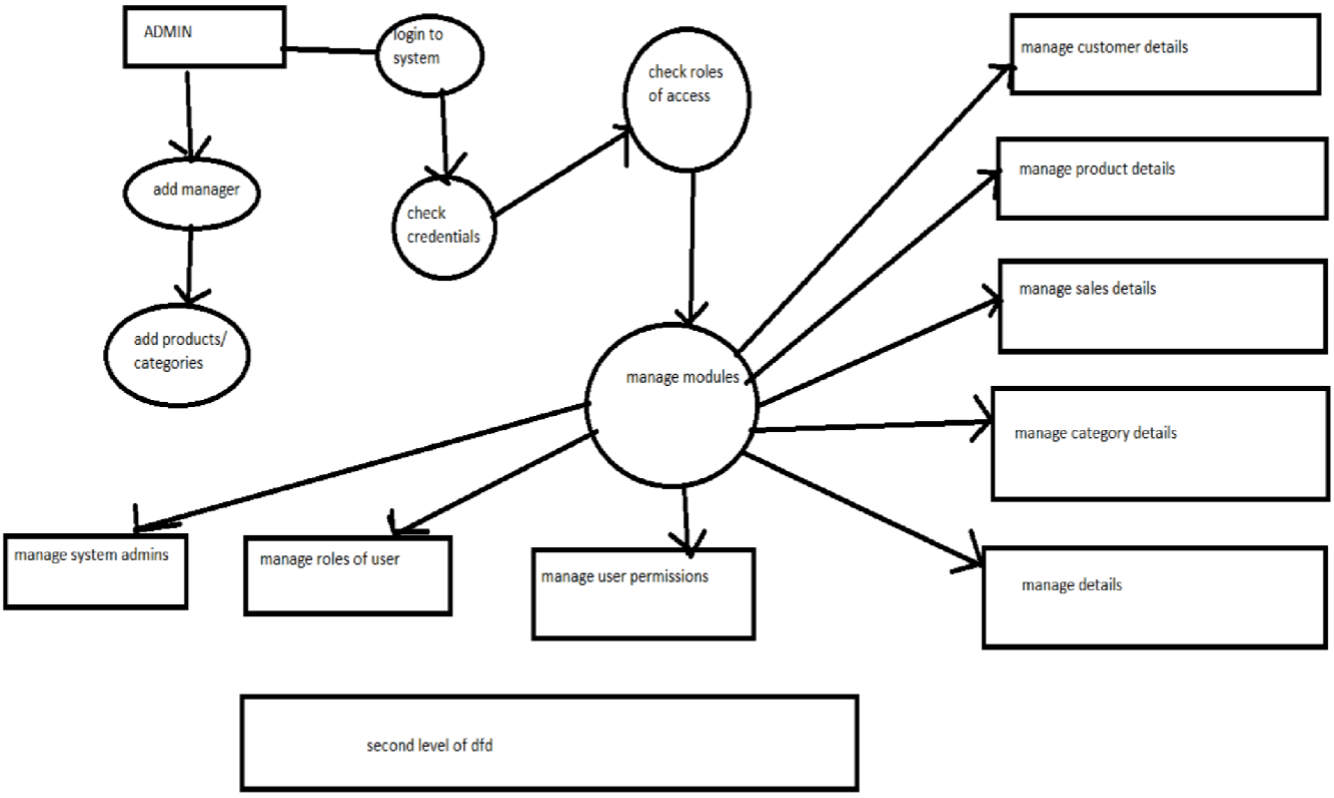
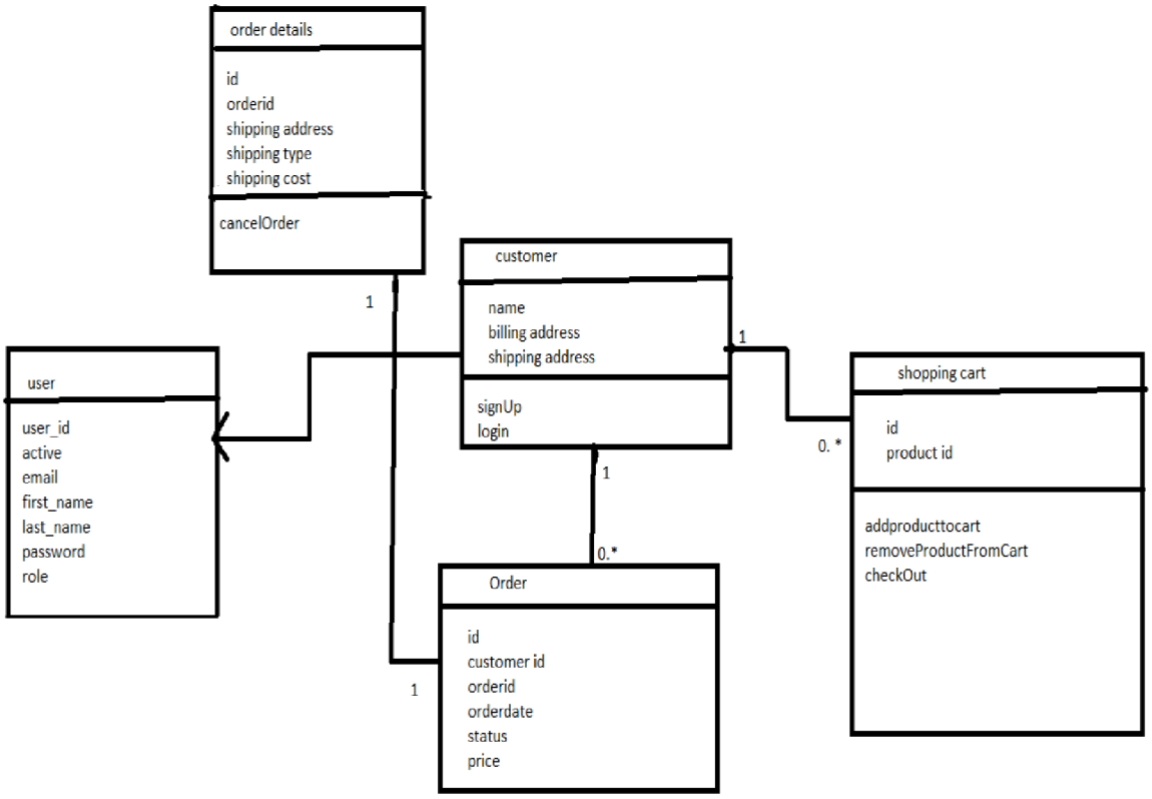


Figure : Level 2 Data Flow Diagram for Admin



Class Diagram

Figure 9: Class Diagram



Use Case Diagram

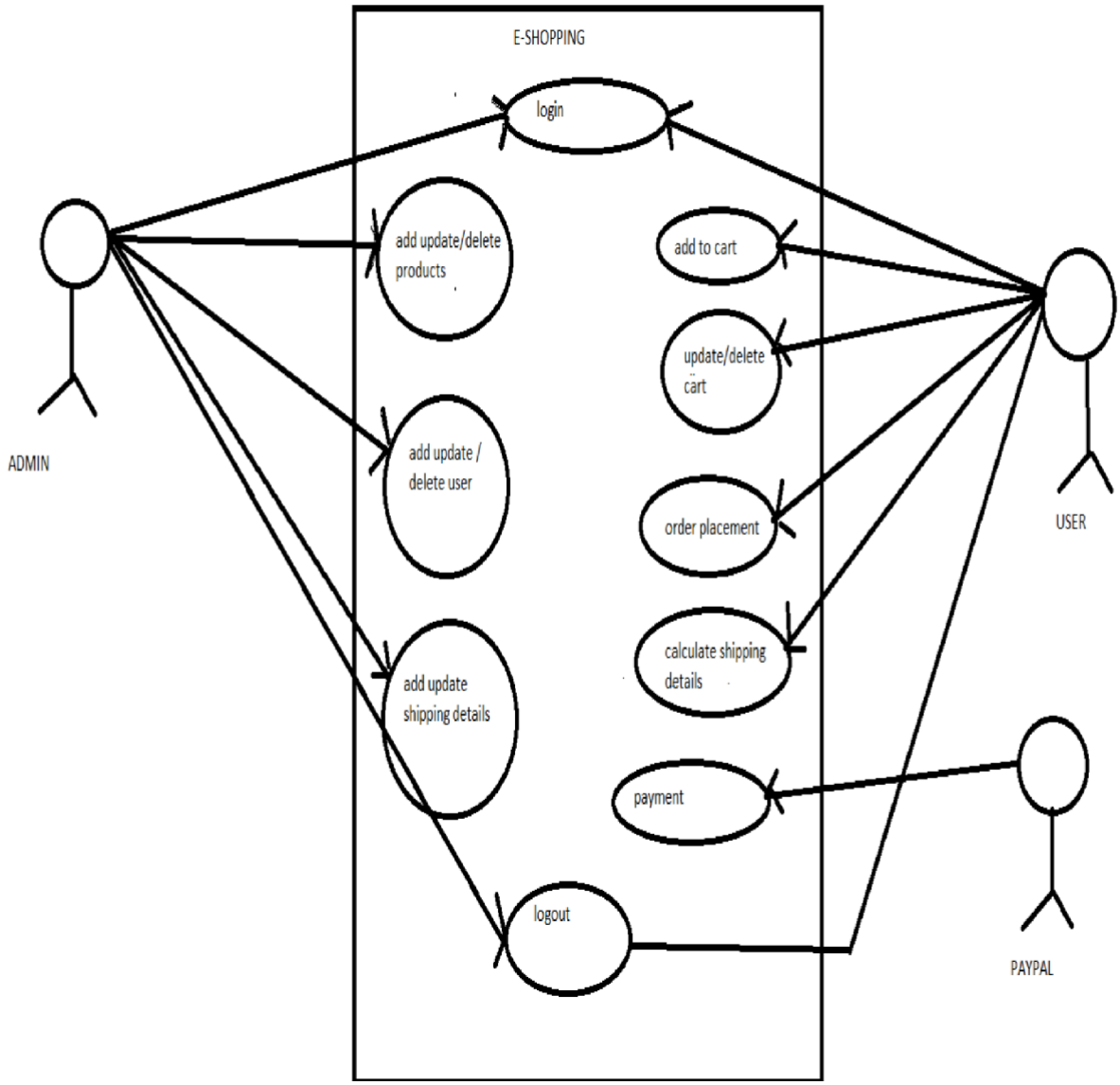


Figure 10: Use Case Diagram

ER Diagram

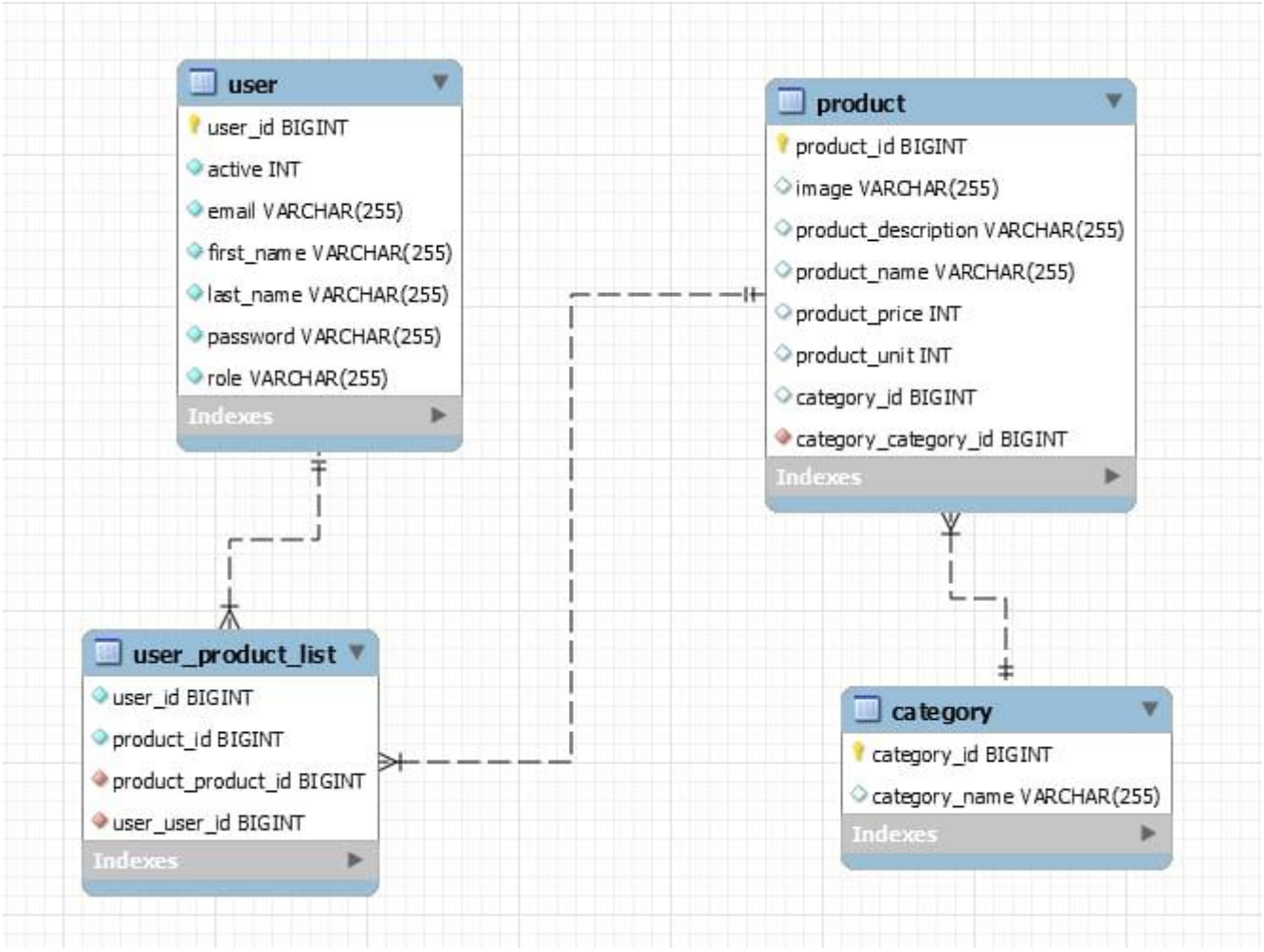


Figure 11: ER Diagram

Table Structure

Product table:

Field	Type	Null	Key	Default	Extra
Product_id	bigint	NO	PRI	NULL	
image	Varchar(255)	YES		NULL	
Product_description	Varchar(255)	YES		NULL	
Product_name	Varchar(255)	YES		NULL	
Product_price	int	YES		NULL	
Product_unit	Int	YES		NULL	
Category_id	bigint	YES	MUL	NULL	

Category table:

Field	Type	Null	Key	Default	Extra
Category_id	bigint	NO	PRI	NULL	
Category_name	Varchar(255)	yes		NULL	

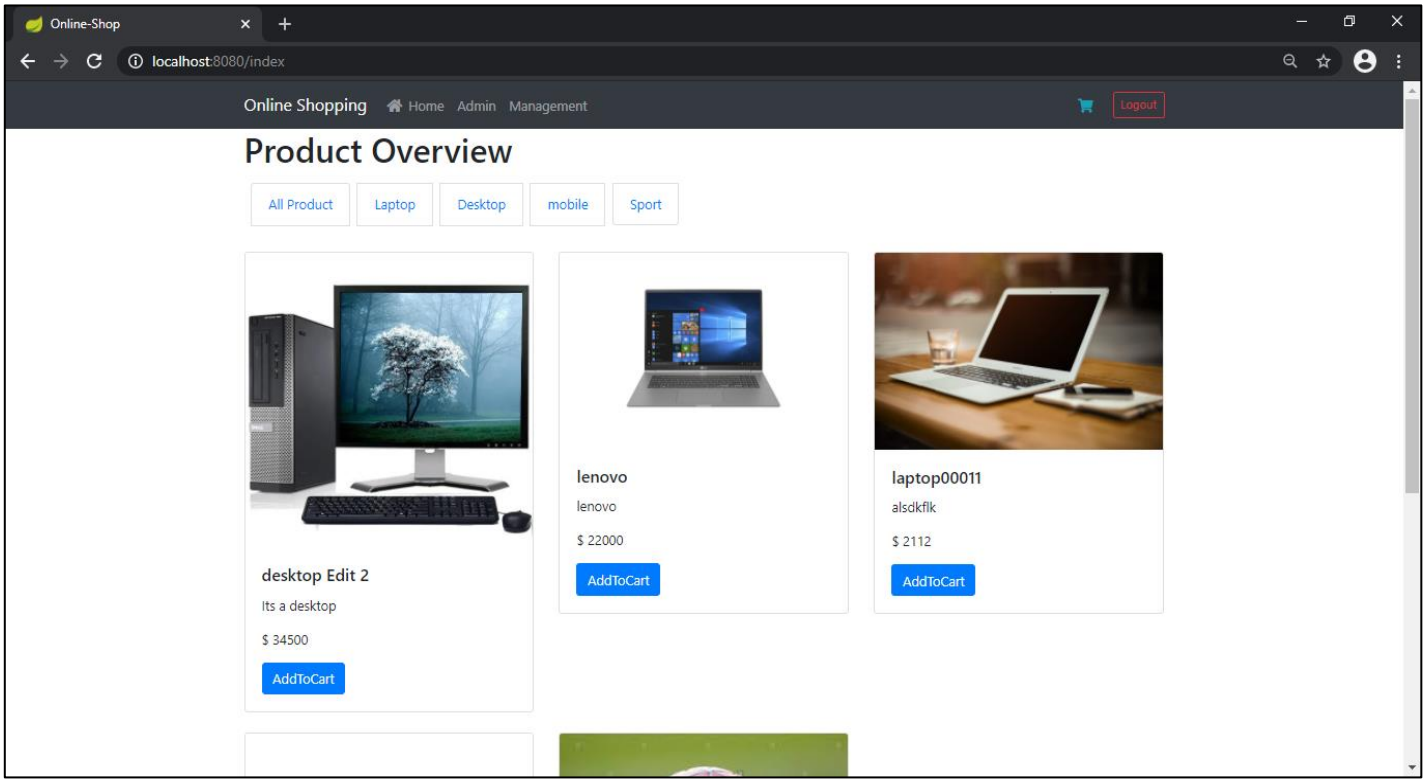
User table:

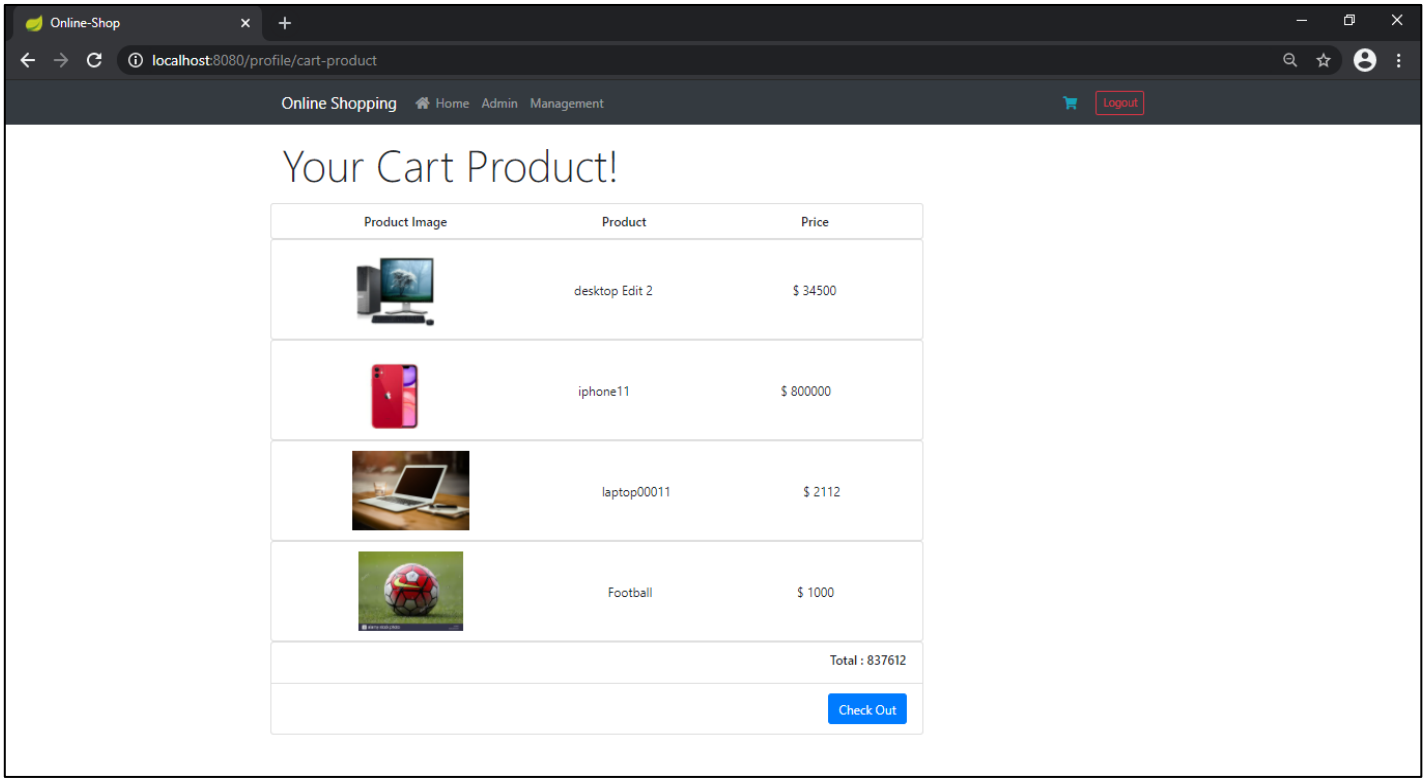
Field	Type	NULL	Key	Default	Extra
User_id	bigint	NO	PRI	NULL	
Active	Int	YES		NULL	
Email	Varchar(255)	YES		NULL	
First_name	Varchar(255)	YES		NULL	
Last_name	Varchar(255)	YES		NULL	
Password	Varchar(255)	YES		NULL	
role	Varchar(255)	YES	MUL	NULL	

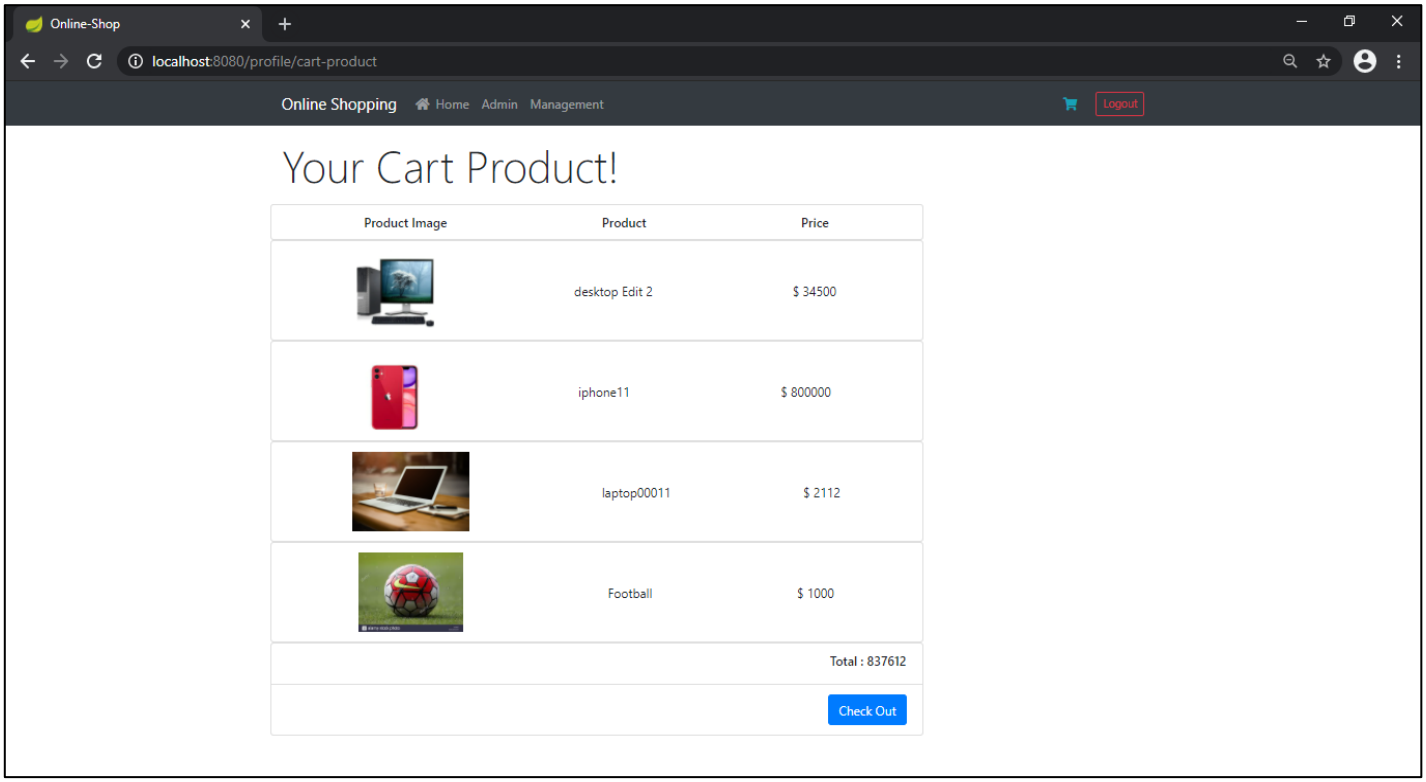
User_Product_List table:

Field	Type	Null	Key	Default	Extra
User_id	BIGINT	NO	MUL	NULL	
Product_id	BIGINT	NO	MUL	NULL	

Screenshots:


Online-Shop
localhost:8080/index
Online Shopping
Home
Admin
Management
Logout
Product Overview
All Product
Laptop
Desktop
mobile
Sport
desktop Edit 2
Its a desktop
$ 34500
AddToCart
lenovo
lenovo
$ 22000
AddToCart
laptop00011
alsdkflk
$ 2112
AddToCart


Online-Shop
localhost:8080/profile/cart-product
Online Shopping
Home
Admin
Management
Logout
Your Cart Product!
Product Image
Product
Price
desktop Edit 2
$ 34500
iphone11
$ 800000
laptop00011
$ 2112
Football
$ 1000
Total : 837612
Check Out


Online-Shop
localhost:8080/profile/cart-product
Online Shopping
Home
Admin
Management
Logout
Your Cart Product!
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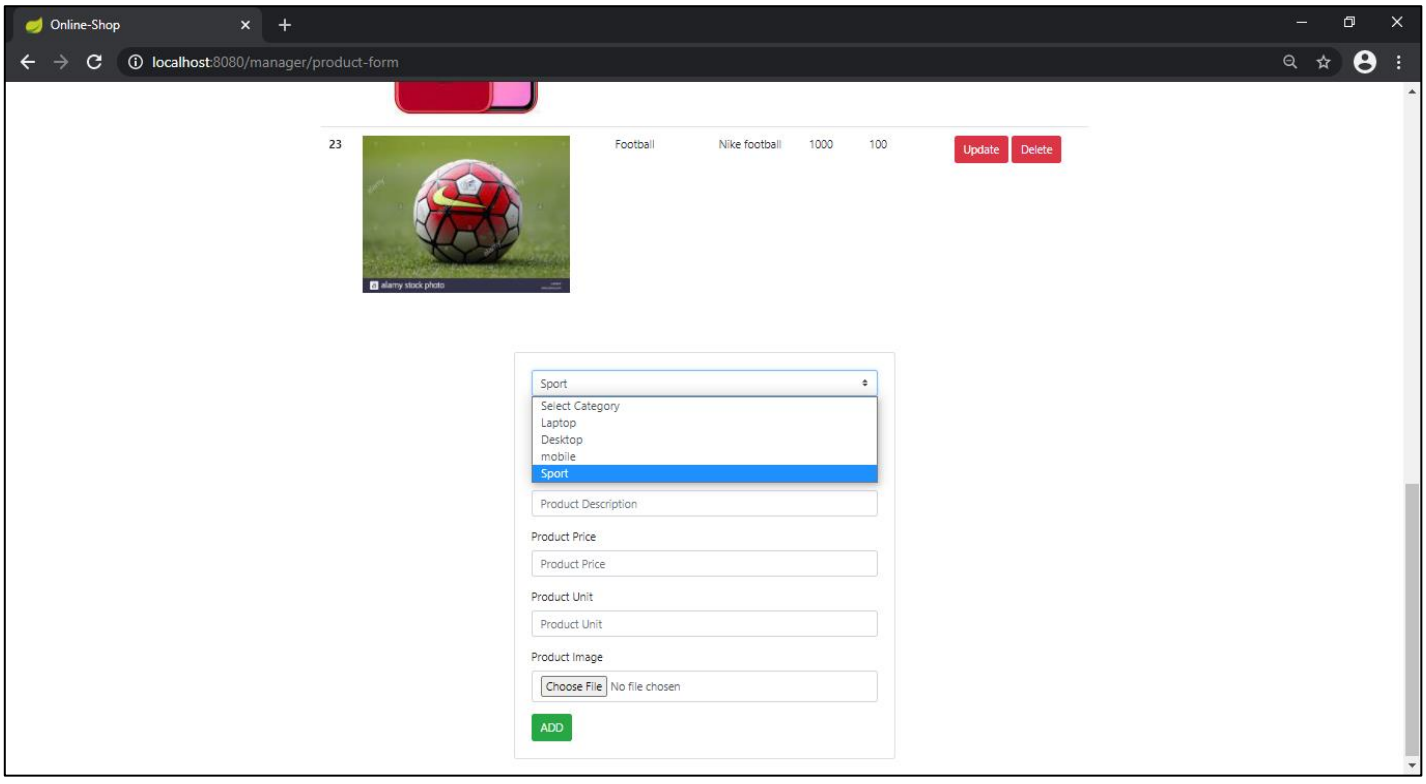
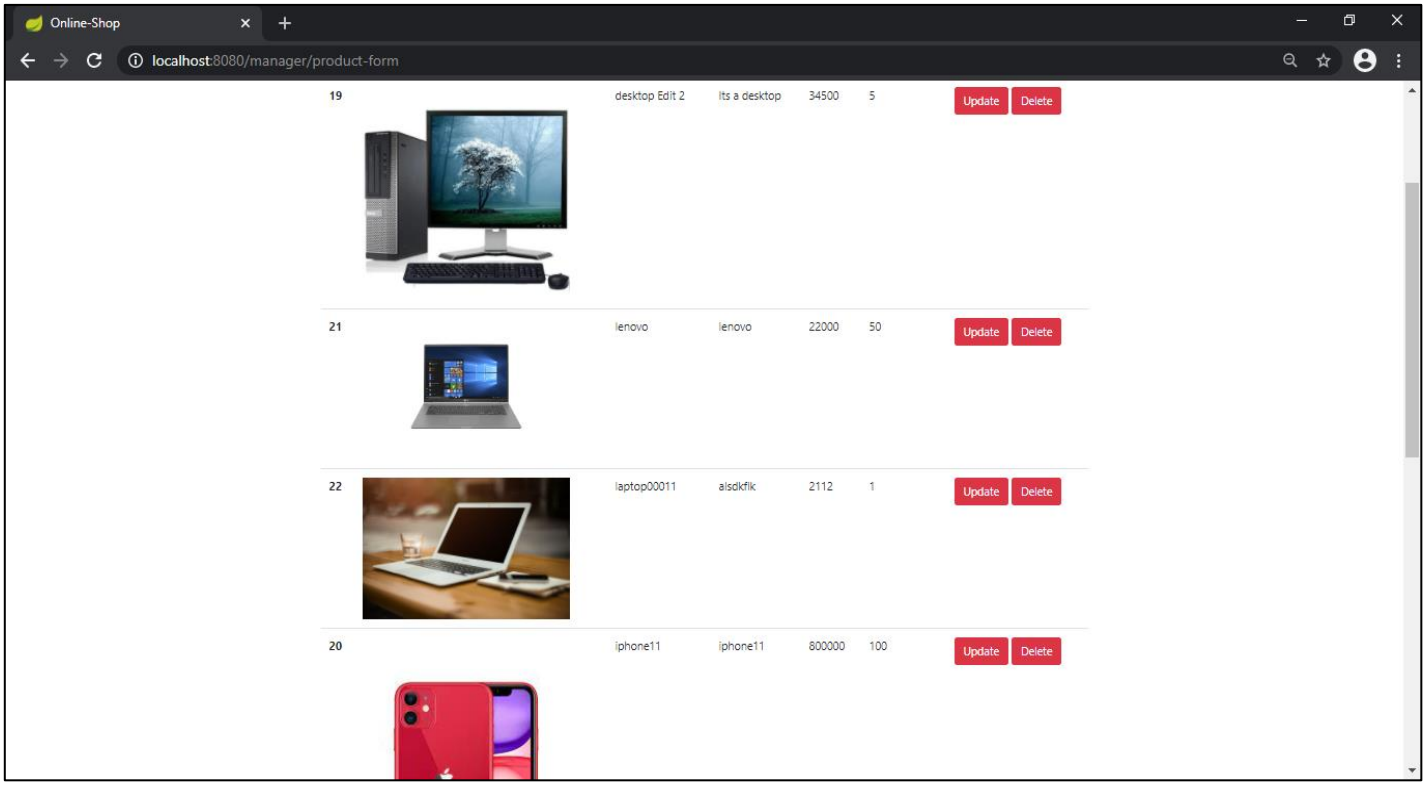
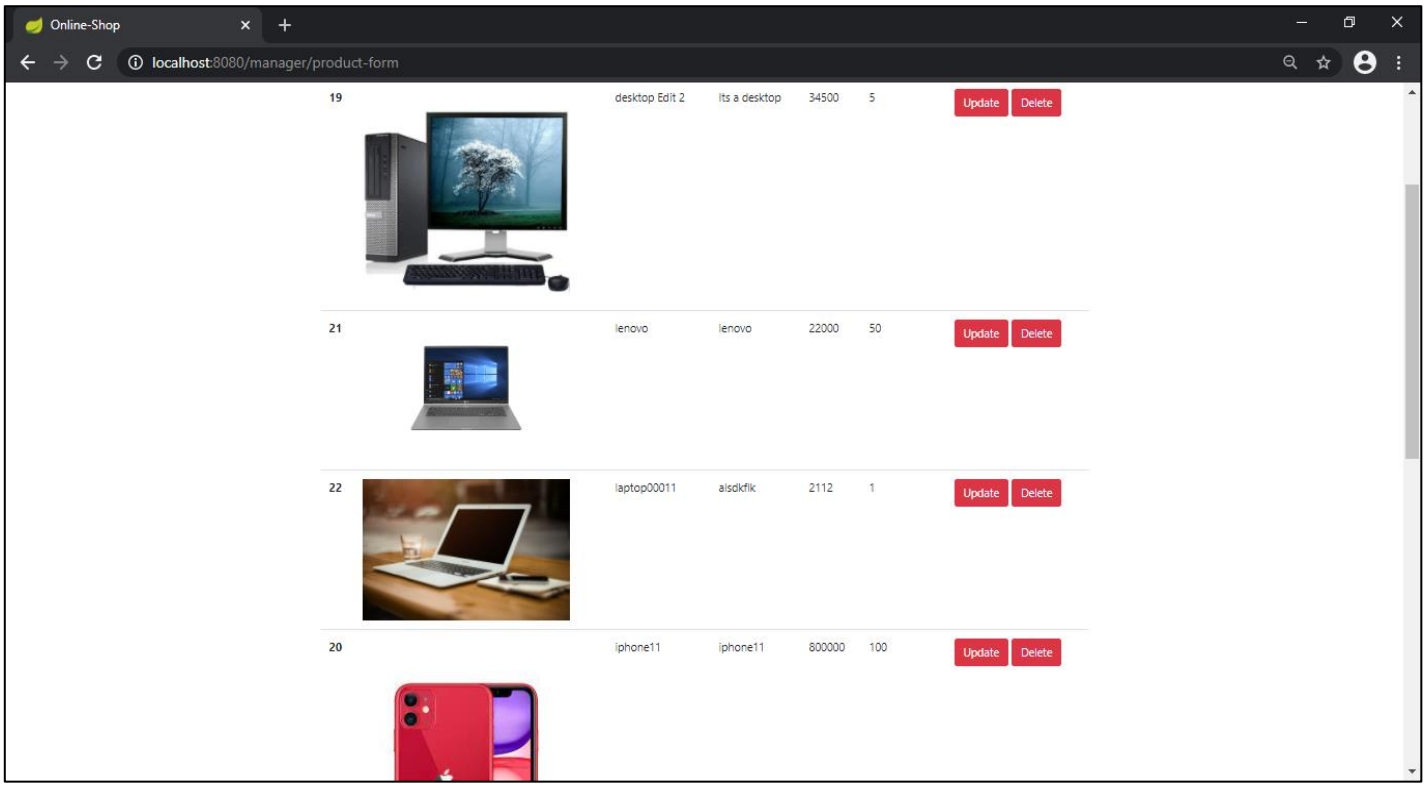
Product
Price
desktop Edit 2
$ 34500
iphone11
$ 800000
laptop00011
$ 2112
Football
$ 1000
Total : 837612
Check Out


Online-Shop
localhost:8080/manager/product-form
23
Football
Nike football
1000
100
Update
Delete
Sport
Select Category
Laptop
Desktop
mobile
Sport
Product Description
Product Price
Product Price
Product Unit
Product Unit
Product Image
Choose File
No file chosen
ADD


Online-Shop
localhost:8080/manager/product-form
19
desktop Edit 2
Its a desktop
34500
5
Update
Delete
21
lenovo
lenovo
22000
50
Update
Delete
22
laptop00011
alsdkflk
2112
1
Update
Delete
20
iphone11
iphone11
800000
100
Update
Delete


Online-Shop
localhost:8080/manager/product-form
19
desktop Edit 2
Its a desktop
34500
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Update
Delete
21
lenovo
lenovo
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Update
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alsdkflk
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1
Update
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20
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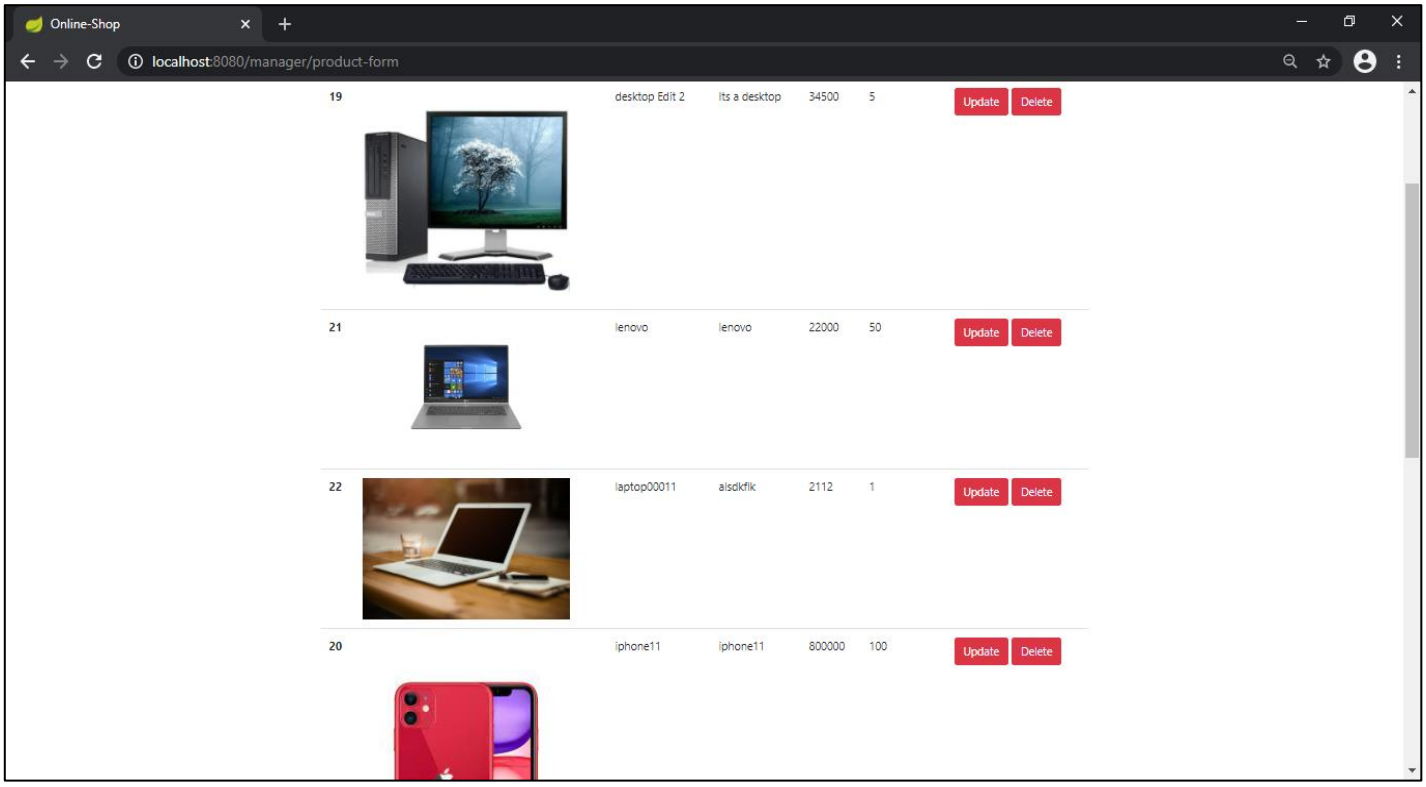
iphone11
800000
100
Update
Delete



Conclusion

E-commerce is continuously progressing and is becoming more and more important to businesses as technology continue.Every day more people connect to the Internet and grow increasingly comfortable with digital transactions.

Future Scope

The future scope of this project is in this web site we payment gateway can be added in future.

7.0 References

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