

GUJARAT TECHNOLOGICAL UNIVERSITY



Darshan Institute of Engineering and Technology, Rajkot (Affiliated with GTU)



A Mini Project Report on **“Online Shopping”**

Under the subject
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Department of Computer Engineering

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DECLARATION

We hereby declare that the Report, submitted along with the **Summer Internship (3170001)** for entitled “**Online Shopping**” submitted in partial fulfilment for the degree of **Bachelor of Engineering in Computer Department** to Gujarat Technological University, Ahmadabad, is a record of the work carried out by **Darshan Institute of Engineering and Technology, Rajkot** under the supervision of Mr.Jadeja Pradyumansinh Udaysinh and that no part of any of report has been directly copied from any students’ reports, without providing due reference.

Name of the student

Pansuriya Yash Sureshbhai



**Darshan Institute of
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DEPARTMENT OF COMPUTER ENGINEERING

CERTIFICATE

This is to certify that the mini project on **Online Shopping** has been satisfactorily carried by **Pansuriya Yash Sureshbhai (190540107150)** under my guidance in the fulfillment of the course Summer Internship (3170001) work during the academic year 2022-2023.

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Acknowledgement

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Thank You
Pansuriya Yash Sureshbhai

ABSTRACT

The Online Shopping is a web site intended for online retailers. The main objective of this site is to make it interactive and its ease of use. It would make searching, viewing and selection of a product easier. It contains a sophisticated search engine for user's to search for products specific to their needs. The search engine provides an easy and convenient way to search for products where a user can Search for a product interactively and the search engine would refine the products available based on the user's input. The user can then view the complete specification of each product. They can also view the product reviews and also write their own reviews.. The main emphasis lies in providing a user-friendly search engine for effectively showing the desired results and its drag and drop behaviour.

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1. Introduction

1.1 Purpose

The purpose of this project is to provide a easy to shopping any item that customer need. The main purpose of this project is to maintain easy circulation system using computers and to provide different reports. This project describes the hardware and software interface requirements using ER diagrams and UML diagrams.

1.2 Document Conventions

- Context: A broad level diagram of the project showing a basic overview.
- Use Case: summarizes some of the relationships between Cases, user, and systems.
- UML: Unified Modelling Language
- ONS: Online Shopping System
- Cataloguing: is a module for managing the resources of item.
- Circulation: is a module for issue and return material from the Store.

1.3 Intended Audience

The intended audiences for this document are:

- Software Project Managers
- Software Engineers
- Software Developers

1.4 Project Scope

The current system can be extended to allow the users to create accounts and save products in to wish list. The users could subscribe for price alerts which would enable them to receive messages when price for products fall below a particular level. The current system is confined only to the shopping cart process. It can be extended to have a easy to use check out process. Users can have multiple shipping and billing information saved. During checkout they can use the drag and drop feature to select shipping and billing information.

2. Overall Description

2.1 Product Perspective

This product aimed toward a person who don't want to visit the shop as he might don't get time for that or might not interested in visiting there and dealing with lot of formalities.

2.2 Product Features

There are user is use this web site.

The features that are available to the Online Shopping :

- **Wish list**

Wish lists are the best way to save something and shop later. This way, customers can keep on bookmarking the items that they like and buy them in the future. Again, it can act as a brilliant remarketing campaign you can ask for. Notifications can be sent to the customers reminding them about the items in the wish lists especially when there is a discount available on the same.

- **Mobile-friendly website**

Your eCommerce site needs to be mobile-friendly. It needs to responsive enough so that it can easily fit well with any device irrespective of its screen size. Today people are more habituated to visit websites using smartphones and tablets and so building a mobile-friendly website can be a wise decision.

- **Related items**

Ecommerce sites can induce a certain level of curiosity within the shoppers by introducing a section of "you might like this." By introducing a section for related items, you will be able to retain your visitors for a longer period. The items in this section will be the ones which can be used in pair with the items that you have added in the shopping cart. This way, marketers have a better chance to boost upsell and cross-sell on the site.

- **User-friendly**

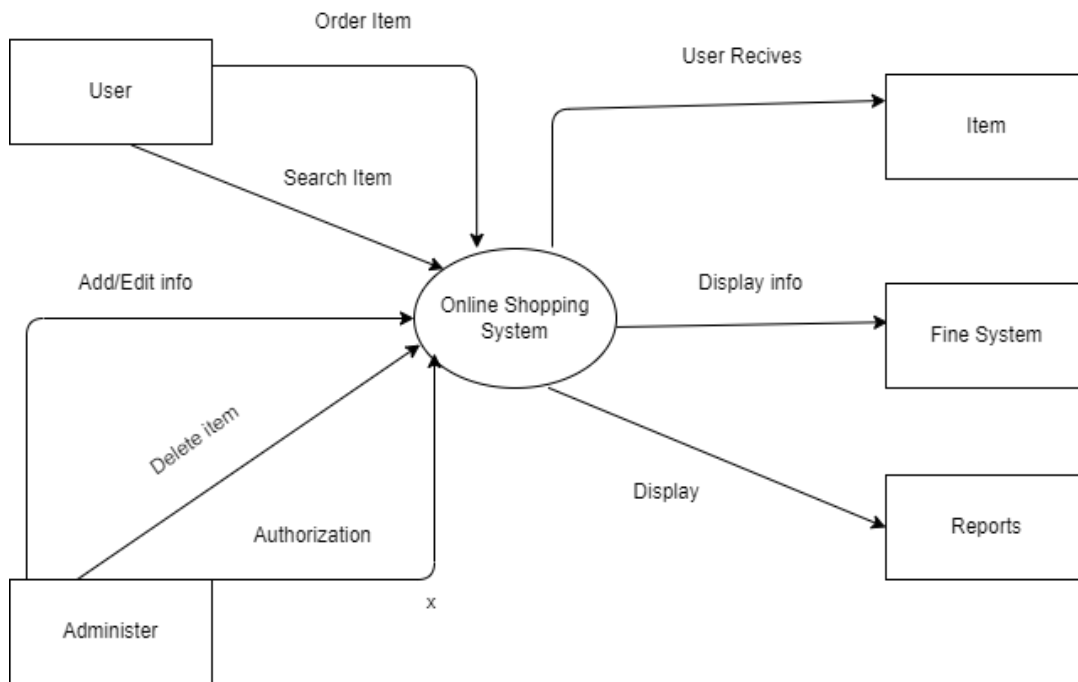
A good design should be simple and yet it should be sophisticated. As per a study, it has been noted that 76% of the consumers who visit the eCommerce store look for ease of use above everything else. It should be the main aim of any website to help the users find the products faster and lead them to checkout by avoiding any unnecessary stoppages. You should understand that you have a few minutes in hand to help them shop and so make it best by offering features like filters, price comparisons, and different shopping categories. Adding in autocomplete feature in the search will help the users quickly find what they want.

Cataloguing

Online catalogues for eCommerce provide an enticing, content-rich experience that assists businesses in generating interest among online visitors and increasing the likelihood that they will convert into customers.

Circulation

Circulation module deals with issue and return of material from the Online Shopping. In this we have a user that by item online and rating our item and review that.



(Fig 2.2 context diagram of Online Shopping System)

2.3 User Classes and Characteristics

There are various kinds of user visits the product for different reason.

- **Administer:** The one who manages the item and its database and rapidly keeps on updating the web site.
- **MEMBER:** User is create there account in this to save their record.

2.4 Operating Environment

Online Shopping System is website we can easily operate from pc and mobile.

User	Particulars	Client System	Server System
Librarian And Asst. Librarian (Windows)	Operating System	Windows	Windows Server
	Processor	Dual core (Minimum)	Pentium 4.0 GHz or higher
	Hard disk	123 GB (Minimum)	1 GB
	RAM	512 MB (Minimum)	80 GB
Members (Mobile)	Operating System	Android 4.0 and Higher	
	Processor	Octa Core (Minimum)	
	Enteral Memory	512 MB (Minimum)	
	RAM	512 MB (Minimum)	

2.5 Design and Implementation Constraints

Administer is all rights to do have key to access database and change on this.

2.6 User Documentation

The product will include user manual. The user manual will include product overview, complete configuration of the used software, technical details, backup procedure and contact information which will include email address. There will be no online help for the product at this moment.

2.7 Assumptions and Dependencies

- Internet must be needed for communication with server.
- It is a barcode and smart card enabled system and hence the issue and return of material is handled uniformly.
- Each Member must have a unique ID for order item.

3. System Feature

3.1 Function Requirement

The Administer

1. Add Item
 - a. New entries must be entered in database
2. Update Item
 - a. Any changes in Item should be updated in case of update3.
3. Delete Item
 - a. Wrong entry must be removed from system

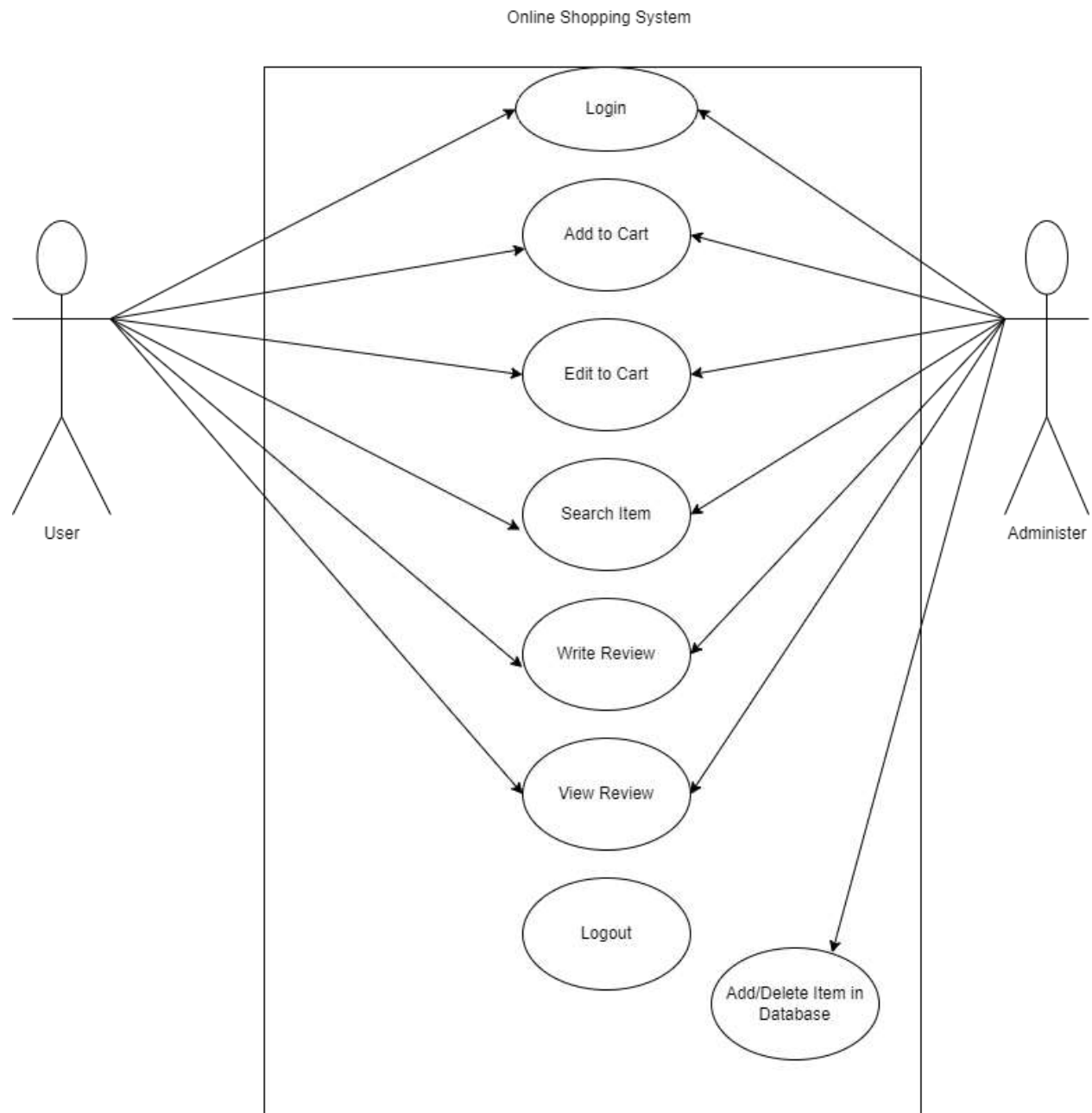
Member

1. Authentication
 - a. User must authenticated before accessing system
2. Search Item
 - a. User can search any Item.
3. Check Account
 - a. This use case is used to check account details

Guest

2. Register user
 - a. User must full fill all application form for registration

3.2 Usage Diagram



(fig. Use case diagram of Online Shopping)

4. External Interface Requirements

4.1 User Interface

➤ Login Screen

-Username
-Password

➤ Create Account

-Username
-Password
-Email
-Mobile No.
-Name

➤ Order

-Order No.
-User Id
-Item Name
-Price
-Quantity
-Total Price

4.2 Hardware Interface

- It is a only mobile or computer that user can use that is ahardware interface.

4.3 Software Interface

Server

- Operating System: Windows
- Processor: Pentium 4.0 GHz or higher
- RAM: 1GB Mb or more
- Hard Drive: 80 GB or more

Client

- Operating System: Windows and Android
- Processor: Pentium III or 2.0 GHz or higher or Octa.
- RAM: 512 Mb or more

Database: My SQL Server

Development Tools: Android Studio, Visual Studio

4.4 Communication Interface

Communication between server and application system need the internet connection into system. Because all the data will be available in server database. Using the web services fetch the data from the server.

5. Non Functional Requirement

Safety requirements

The database may get crashed at any certain time due to virus or operating system failure. Therefore, it is required to take the database backup

Security requirements

We are going to develop a secured database for the university .there are different categories of users namely teaching staff, administrator, library staff ,students etc., depending upon the category of user the access rights are decided. It means if the user is an administrator then he can be able to modify the data, delete, append etc., all other users other than library staff only have the rights to retrieve the information about database.

Software quality attributes

The quality of the database is maintained in such a way so that it can be very user friendly to all the users of the database

Hardware constraints

The system requires a database in order to store persistent data. The database should have backup capabilities.

Software constraints

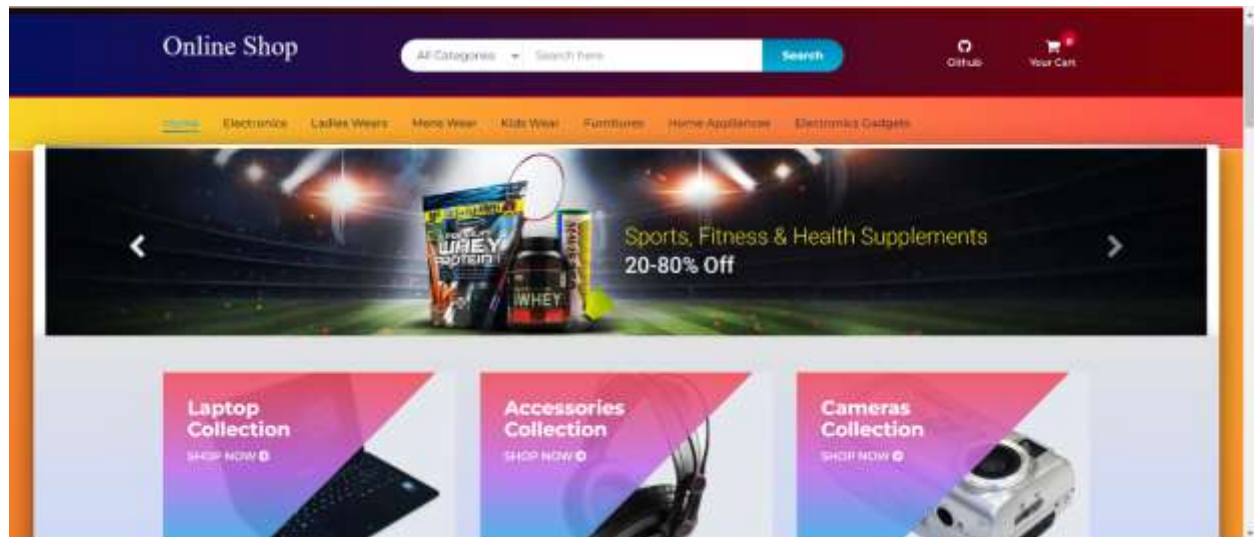
The development of the system will be constrained by the availability of required software such as database and development tools. The availability of these tools will be governed by

Alert constraints

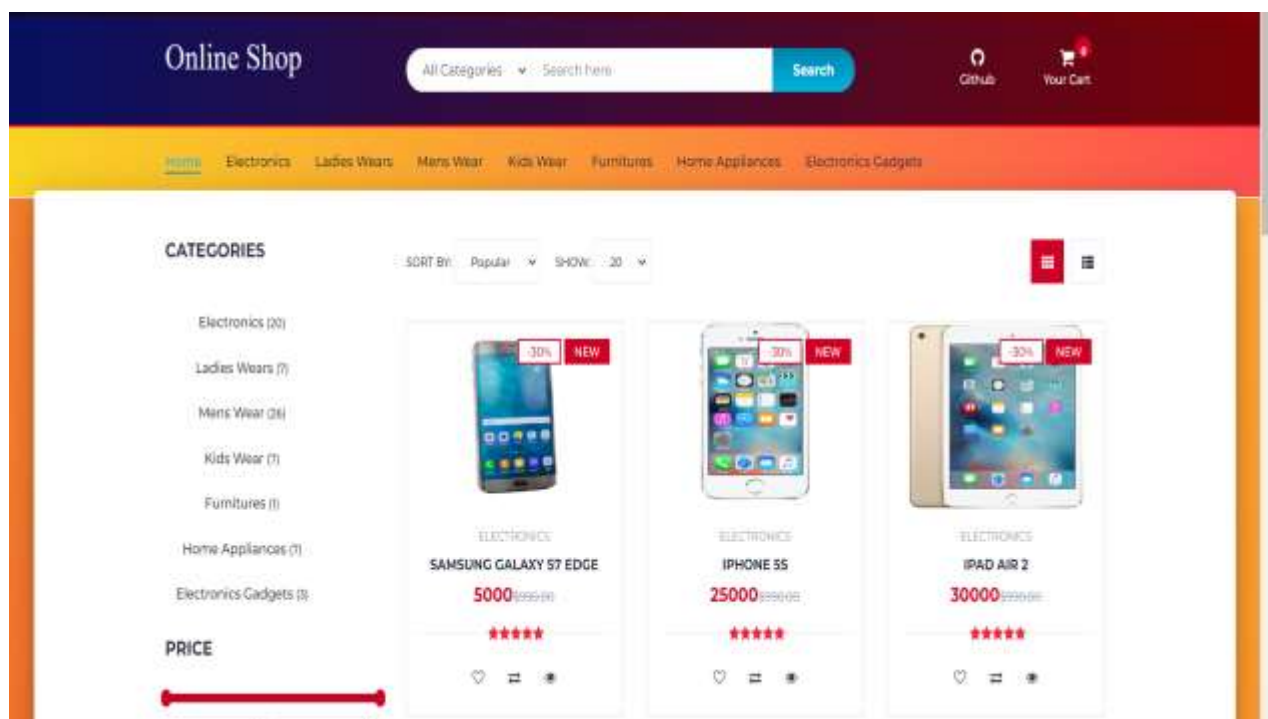
Sometime user miss the submit book and article on return data, so system will be give the return book alert message on member mobile before one day of return date. And also provide alert for upcoming new books and article.

6. Implementation

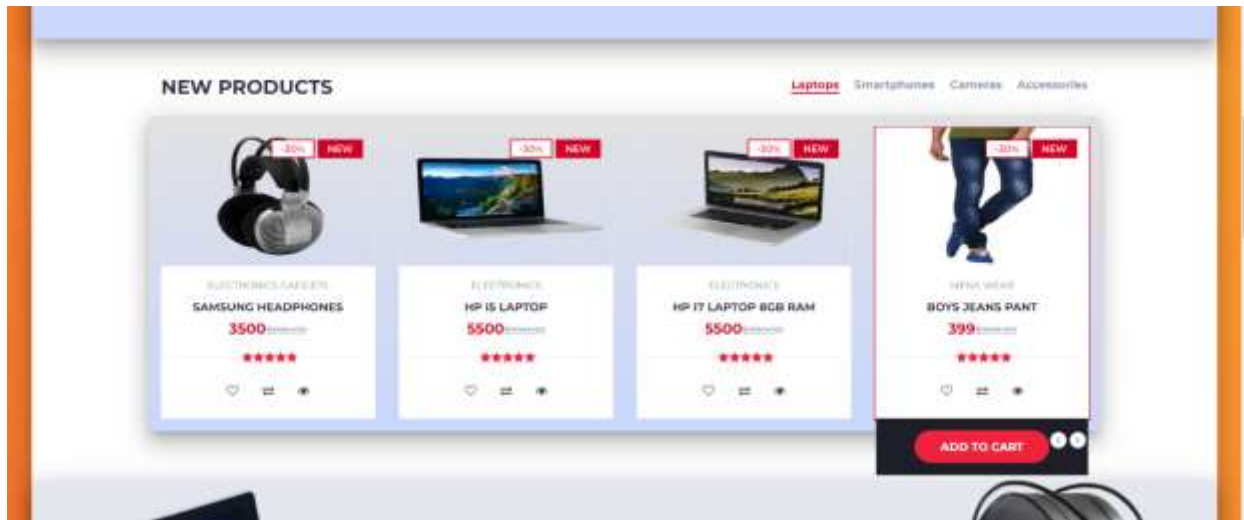
6.1 Home



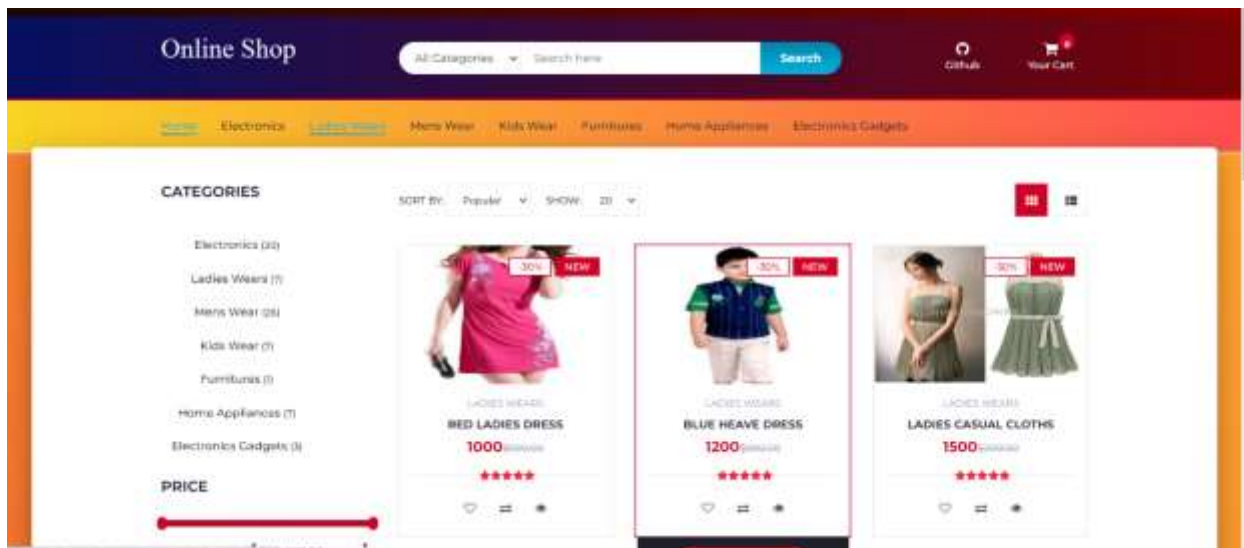
6.2 Electronics Product



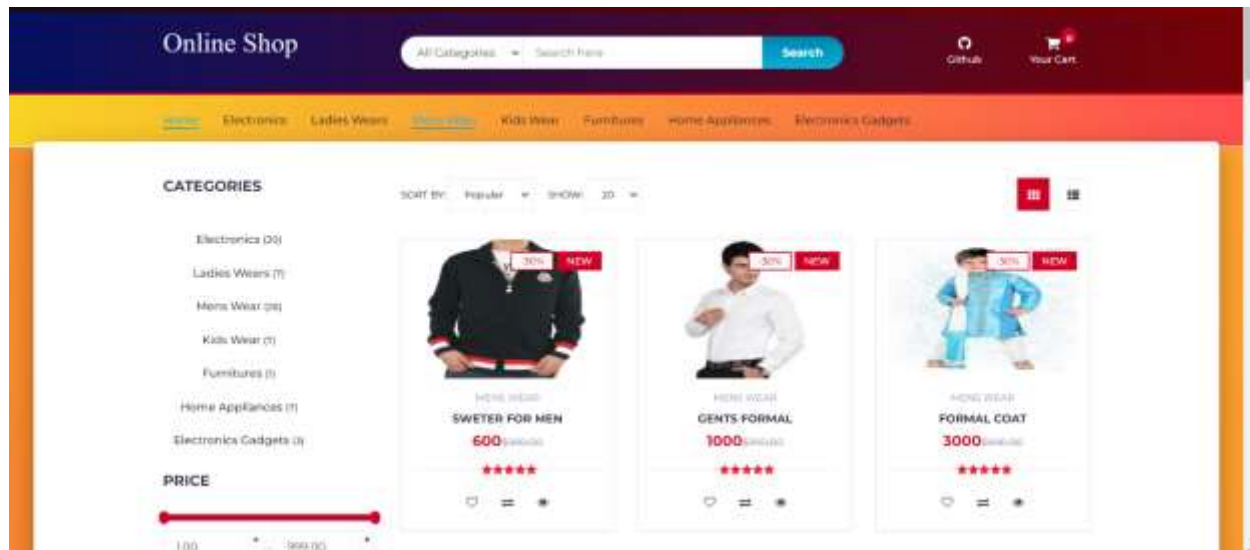
6.3 New Products



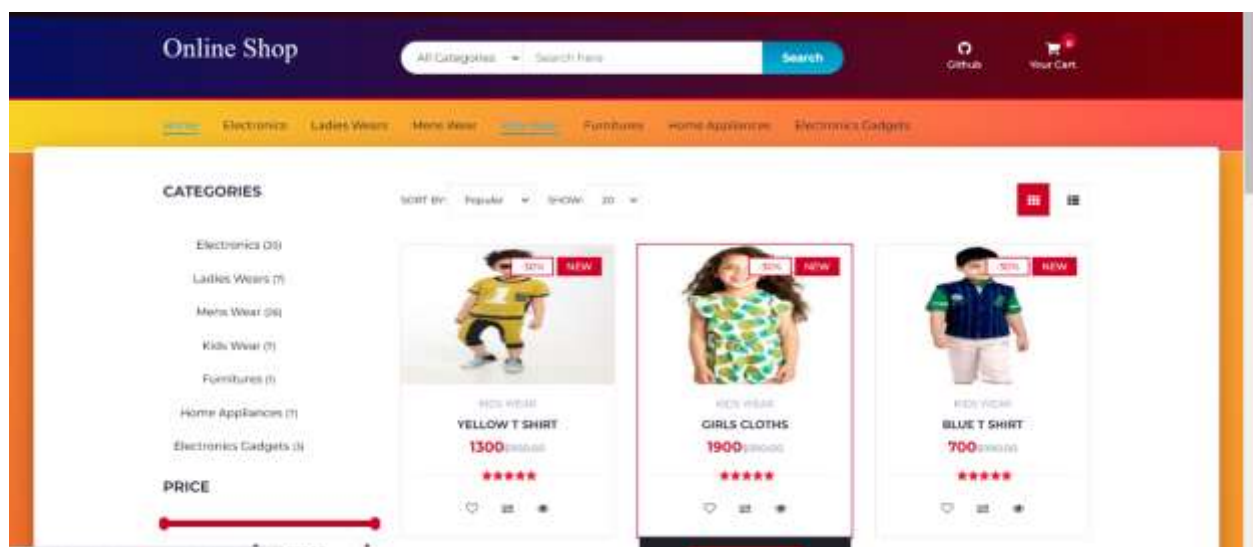
6.4 Ladies Product



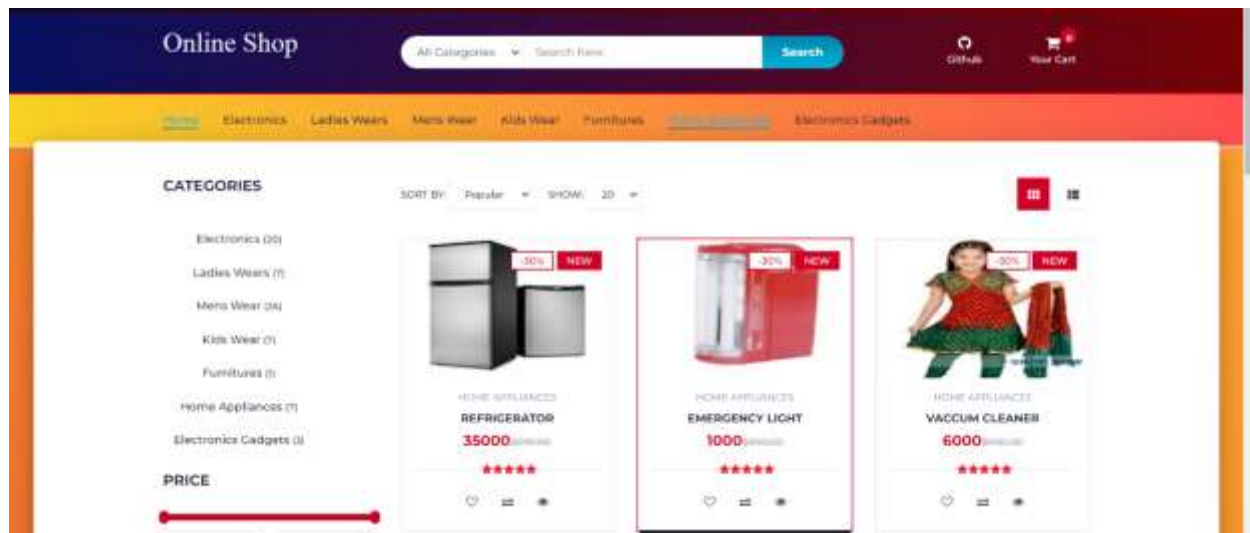
6.5 Men Product



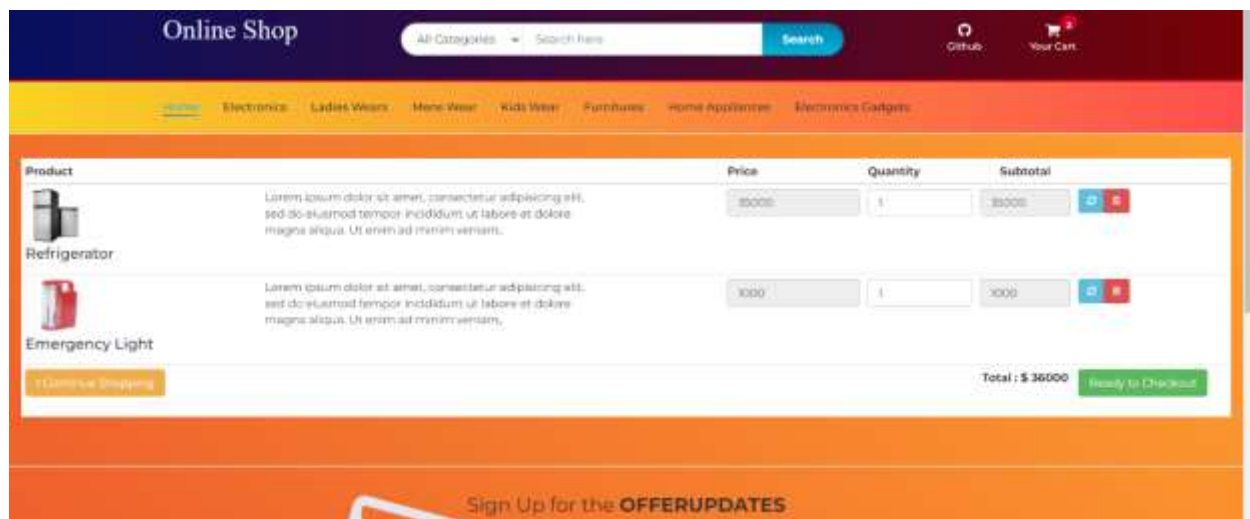
6.6 Kids Product



6.7 Home Appliances



6.8 Add to cart



6.9 Payment Display

Billing Address

Full Name

Yash Pansuriya

Email

yashpansuriya19@gmail.com

Address

Lal Bahadur Shastri society, Street no. 376 corner

City

Mumbai

State

Zip

☐ Shipping address same as billing

Continue to checkout

Payment

Accepted Cards

Name on Card

Card Number

Exp Date

12/22

CVV

Please fill out this field.

Cart

no

product title

qty

amount

1

Refrigerator

1

35000

2

Emergency Light

1

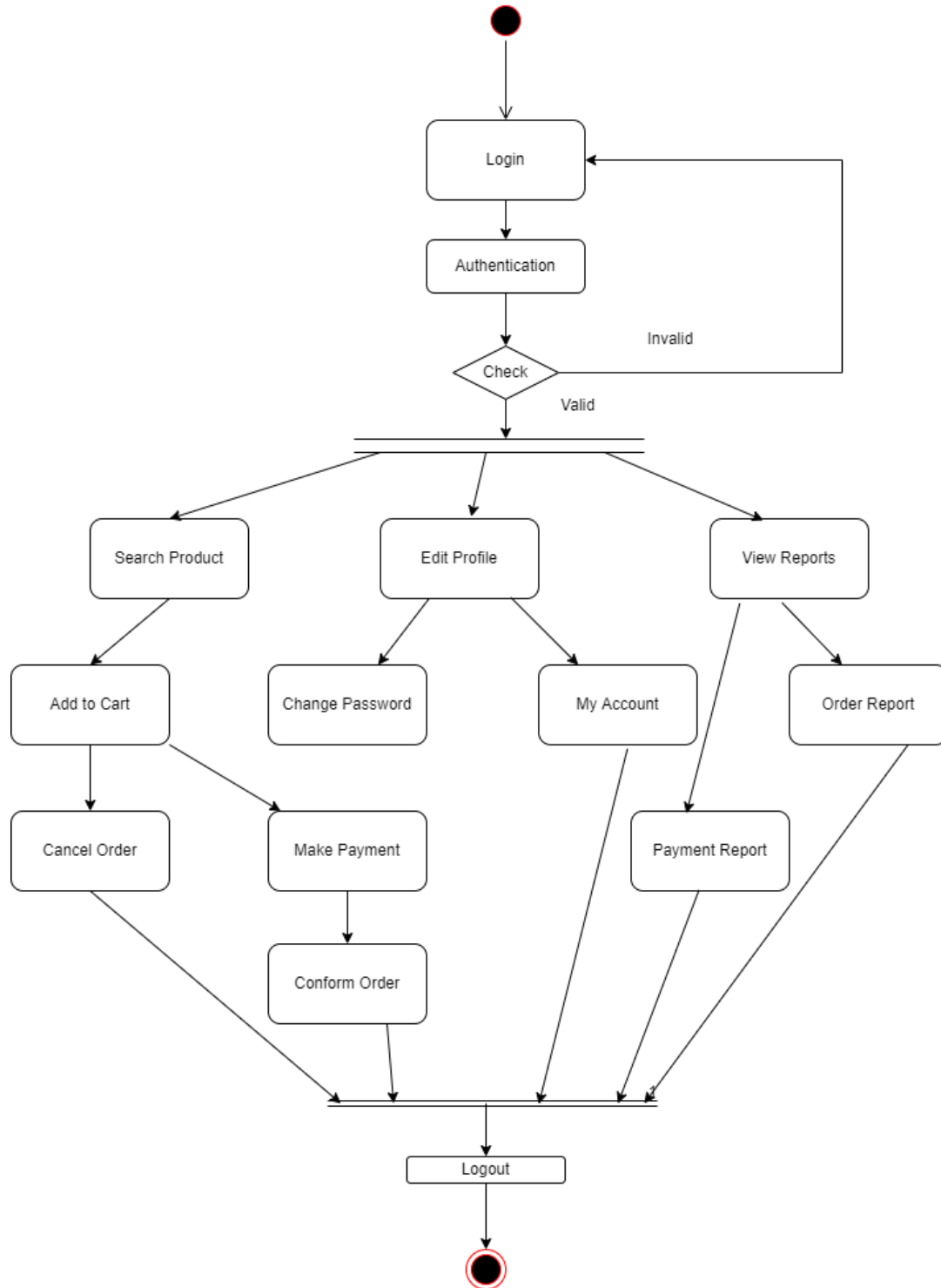
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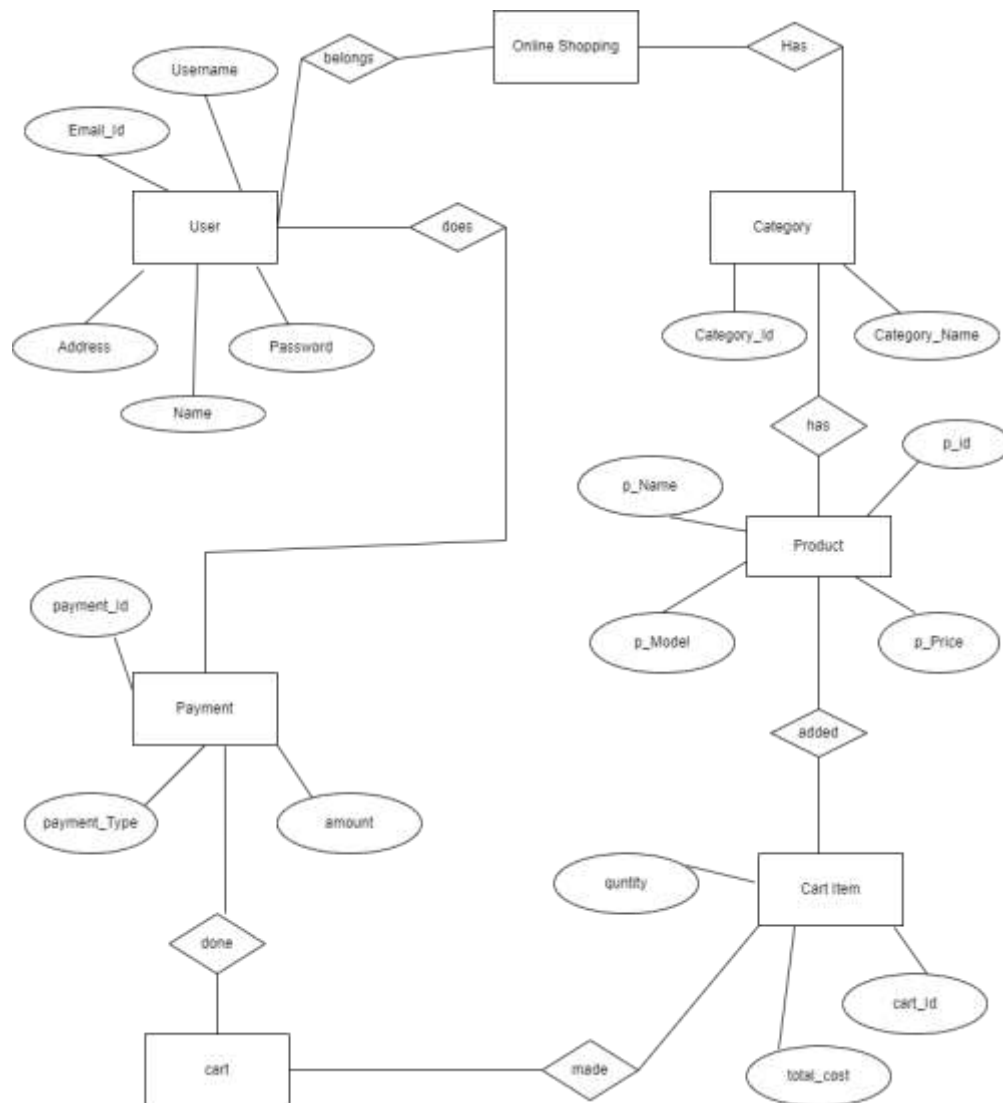
total

\$36000

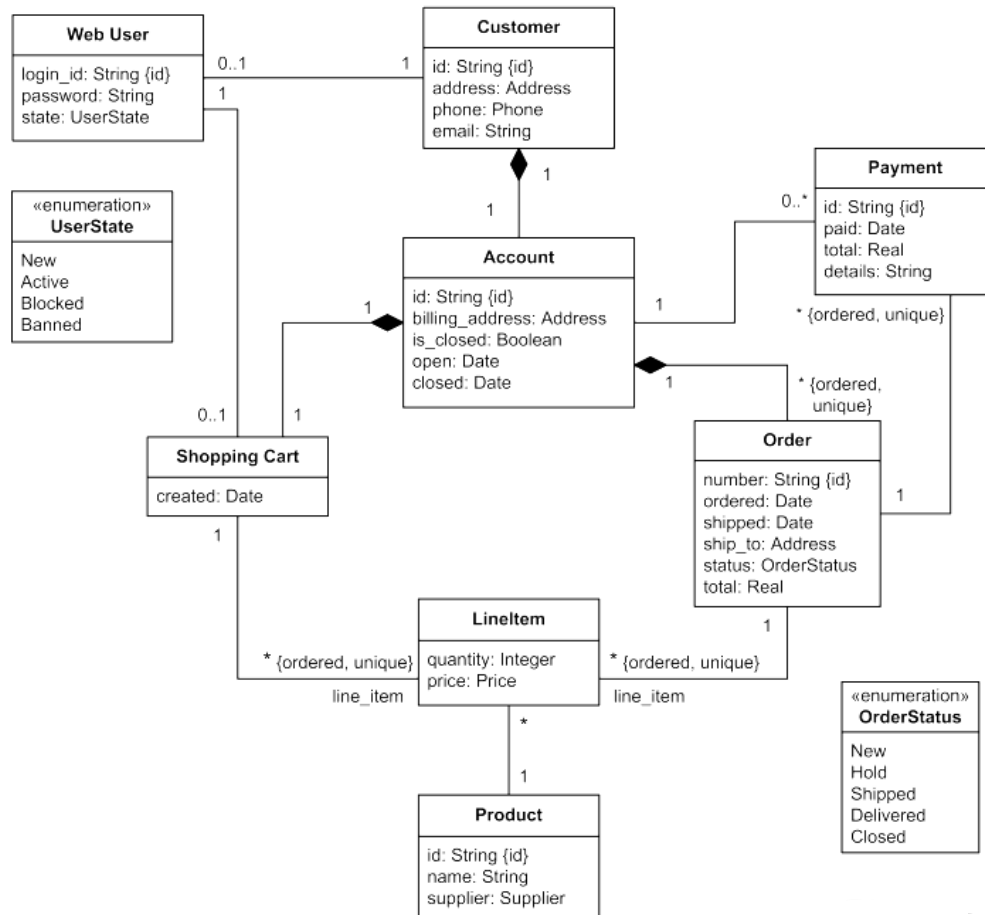
Appendices

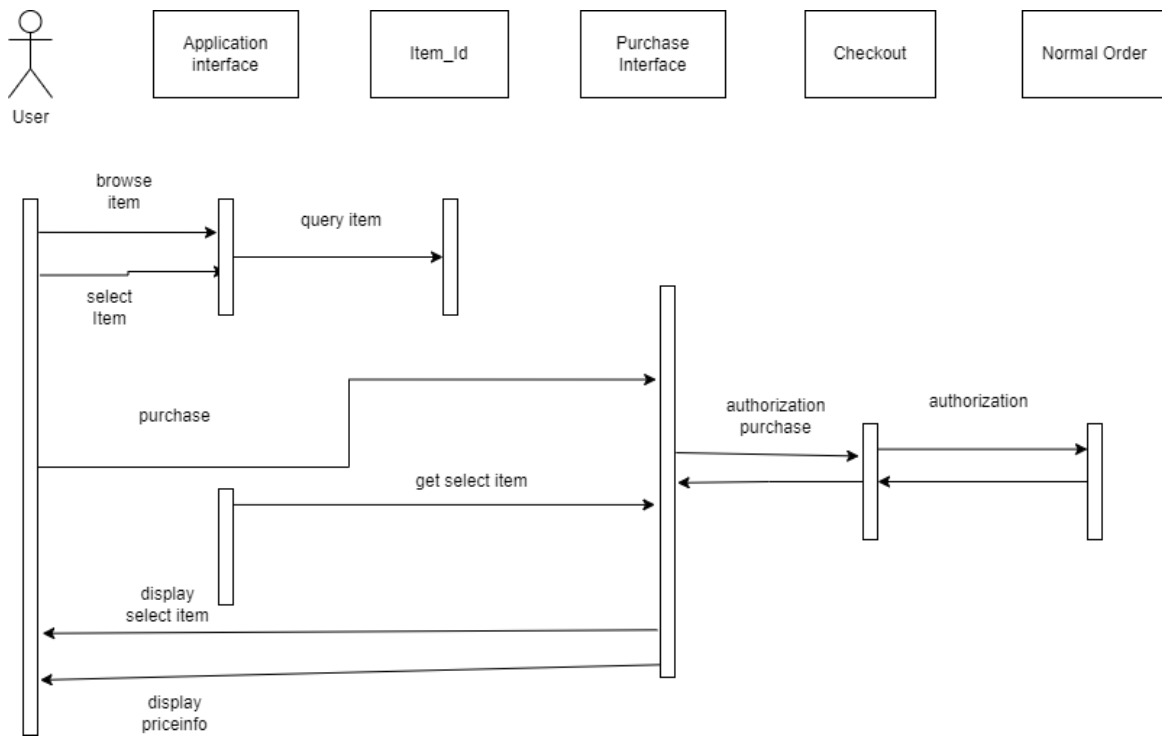
A) Activity Diagram



B) E-R Diagram

C) Class Diagram



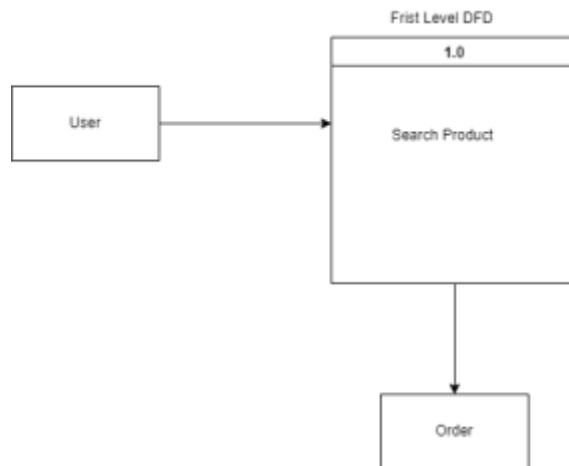
D) Sequence Diagram

E) State Diagram

- State diagram of Product



F) Dataflow Diagram



References

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- <https://www.w3schools.com/php/default.asp>
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