

Synopsis for Online Shopping Website

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Project Name:- Online shopping website

a) Introduction:

- Modern society relies on computer networks, particularly the Internet, for various applications.
- ECommerce is a rapidly growing domain, with online shopping as a significant component.
- Online shopping allows users to purchase products over the Internet, providing convenience and a wide reach.

b) Problem Definition:

- Online shopping emulates the experience of a physical store, but transactions occur online.
- Sellers display products on a website, users select items, add them to a cart, and proceed with payment.
- Payment options include cash on delivery, credit/debit cards, and net banking. - After verification, the product is delivered, and the product database is updated.

OBJECTIVES AND SCOPE

a) Objectives:

- Develop an Online Shopping Website for vendors, customers, and administrators.
- Offer personalized and secure online shopping experiences.

b) Scope:

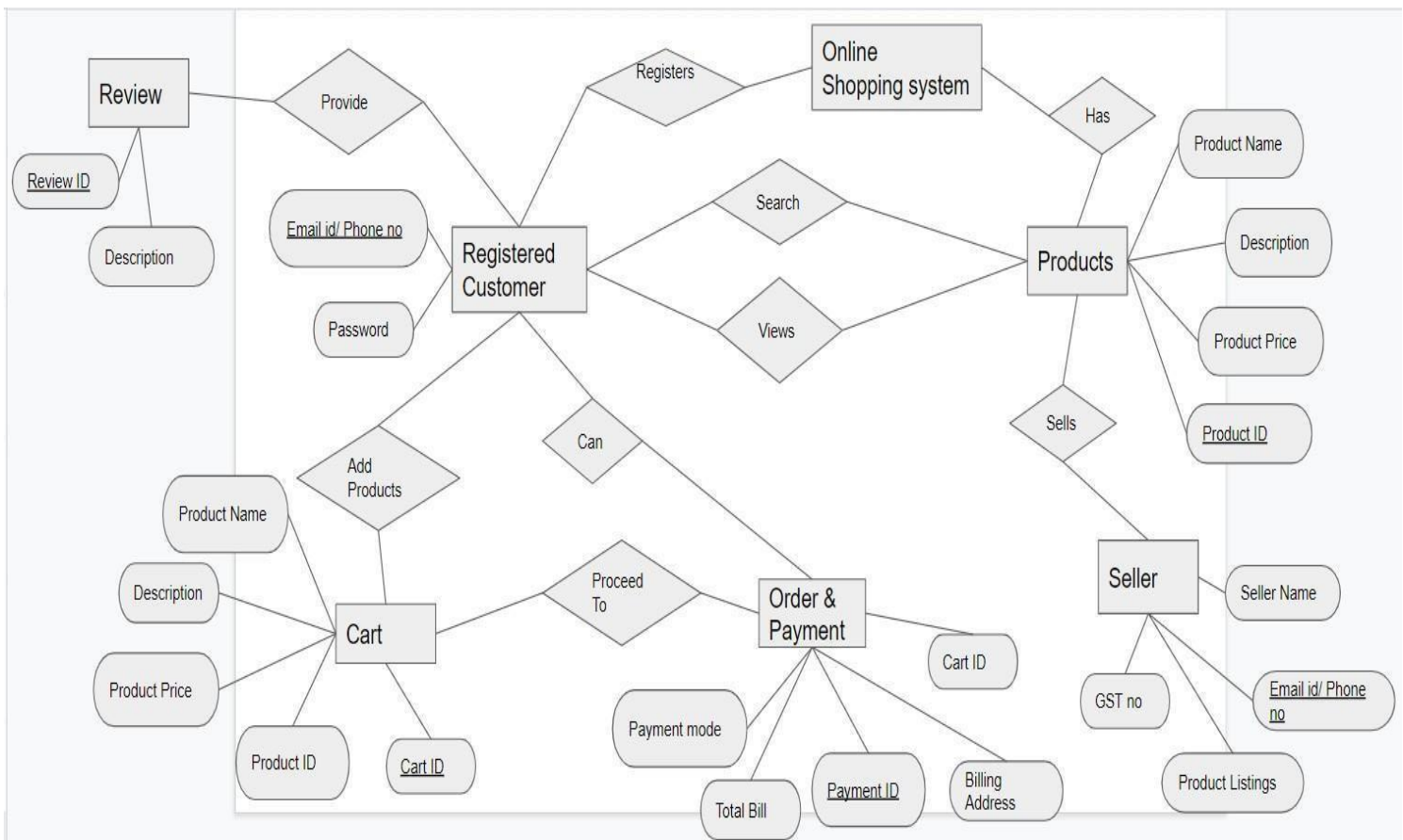
- Initial functional requirements include secure registration, product browsing, search, shopping cart creation, feedback, and payment options.
- Initial non-functional requirements comprise secure data access, 24/7 availability, component design for performance, and a flexible service-based architecture.

Product Functions:-

Enlisted below are all the major functions supported by the online shopping system along with the user classes.

- **Register:** for customers and sellers
- **Login:** for customers and sellers
- **Logout:** for customers
- **View Account Details:** for customers and sellers
- **Edit Account Details:** for customers and sellers
- **Search item:** for customers
- **View item:** for customers
- **Add item to cart:** for customers
- **View shopping cart:** for customers
- **Change items in cart:** for customers
- **Proceed to buy:** for customers
- **Delivery & payment:** for customers
- **Place order:** for customers
- **Track order:** for customers
- **Cancel order:** for customers
- **Return item:** for customers
- **View orders and returns:** for customers
- **Rate item:** for customers
- **Review item:** for customers
- **Recommendations:** for customers
- **View sales:** for sellers
- **Deliver items:** for sellers
- **Upload listings:** for sellers

ER Diagram:-

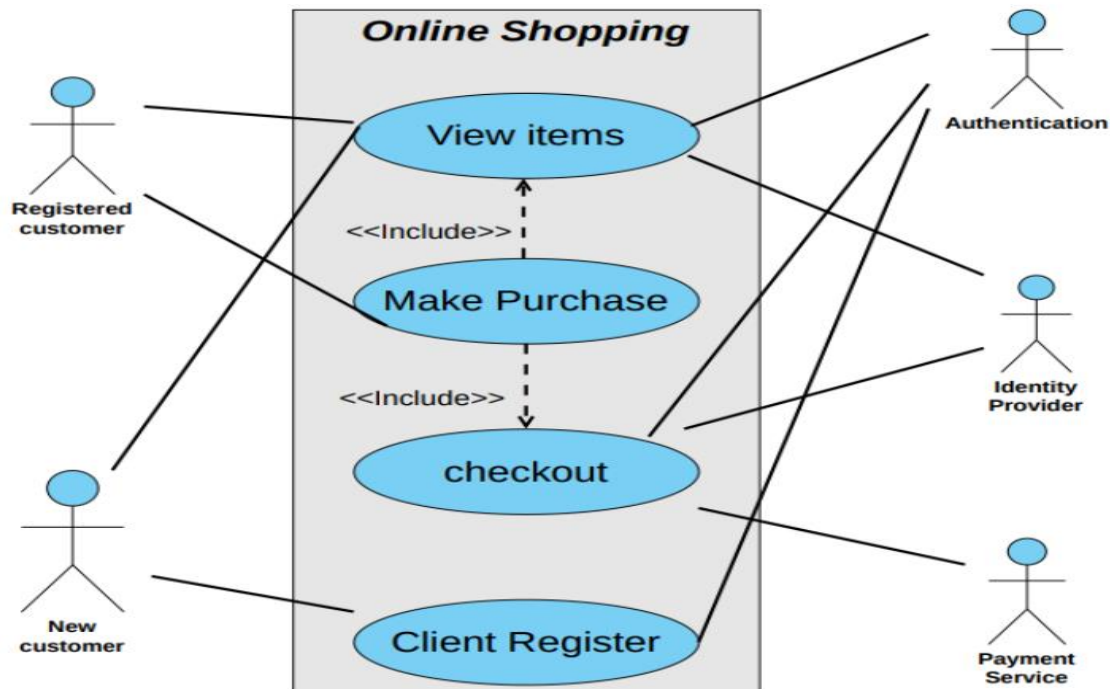


Use Case Diagram:-

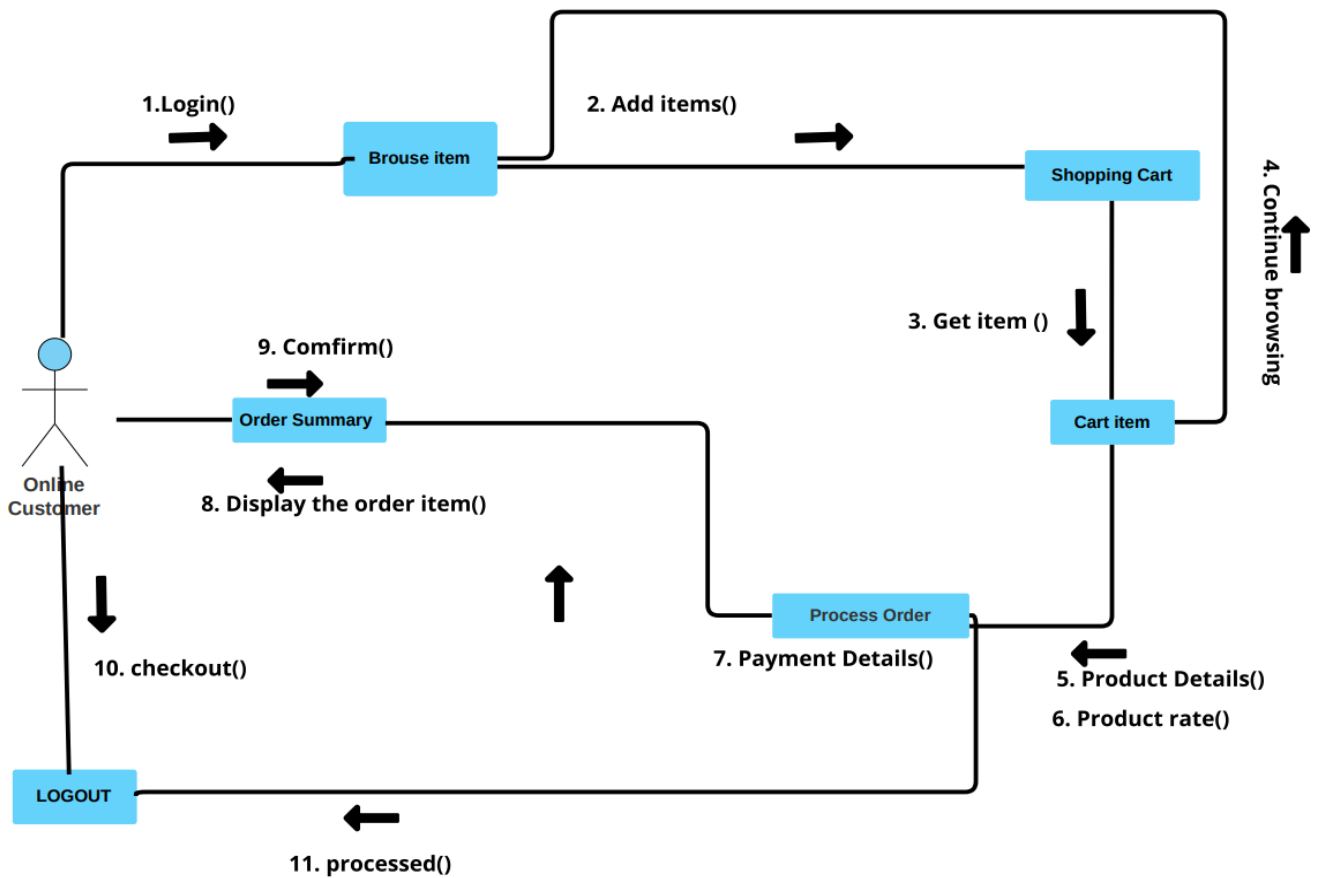
About Use Case:- This use case diagram is of online shopping website. In this use case diagram, there are 4 use cases **View Items, Make Purchase, Client Register, Checkout.**

1. **View Items:-** This use case is used by could be used by the customer, if customer only wants to find and see some products. This use case could also be the part of Make Purchase use case.
2. **Client Register:-** This use case allows the customer to register on the website.
3. **Checkout:-** This use case is included use case not available by itself, it is the part of making purchase. Checkout use case includes several required use cases. Customer should be authenticated. It also includes payment use case which could be done either by using any payment service.
4. **Make Purchase:-** This use case allows the customer to purchase the items. This use includes View items and checkout use case in it. Customer can view the items and can checkout their selected items.

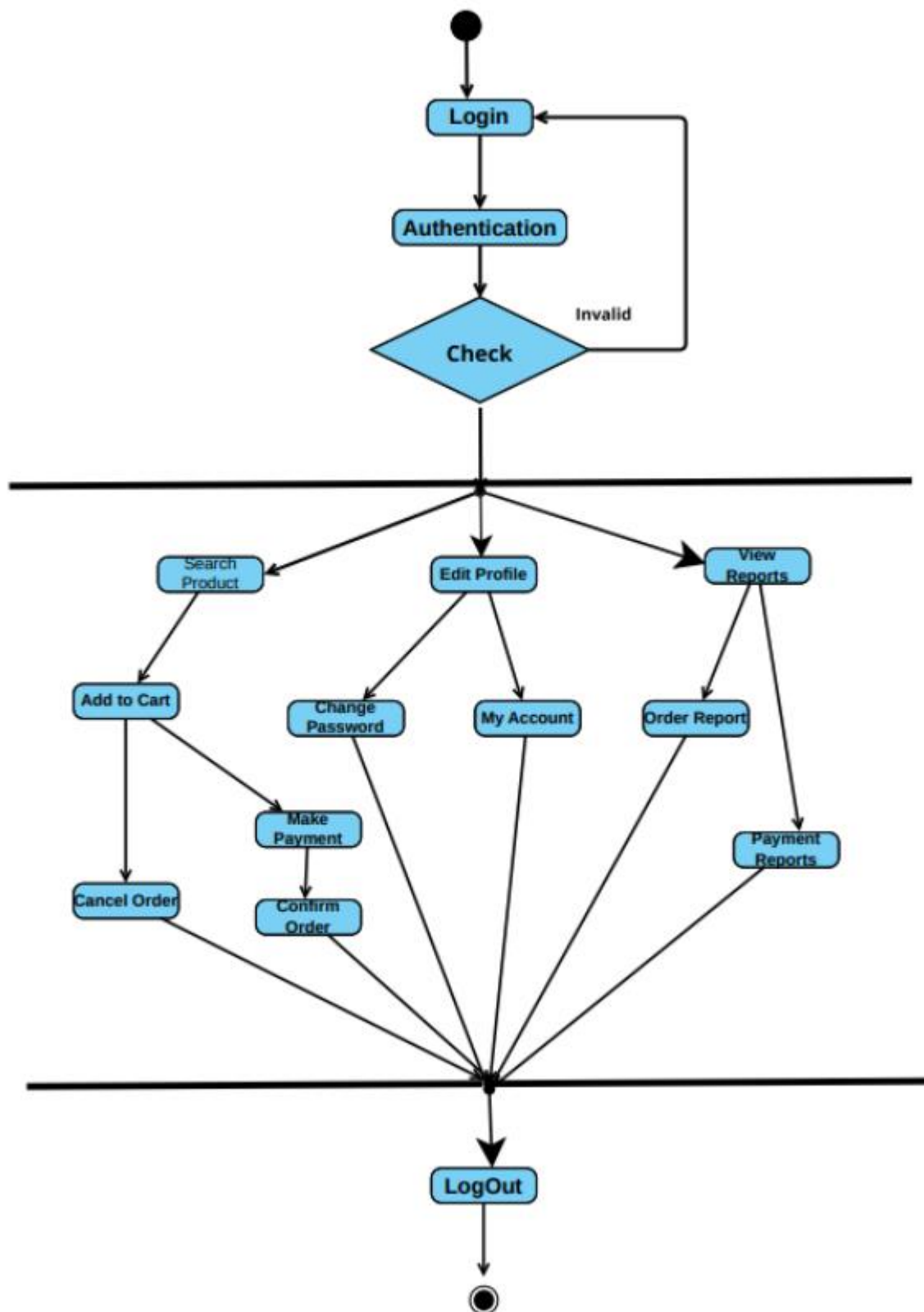
Diagram:-



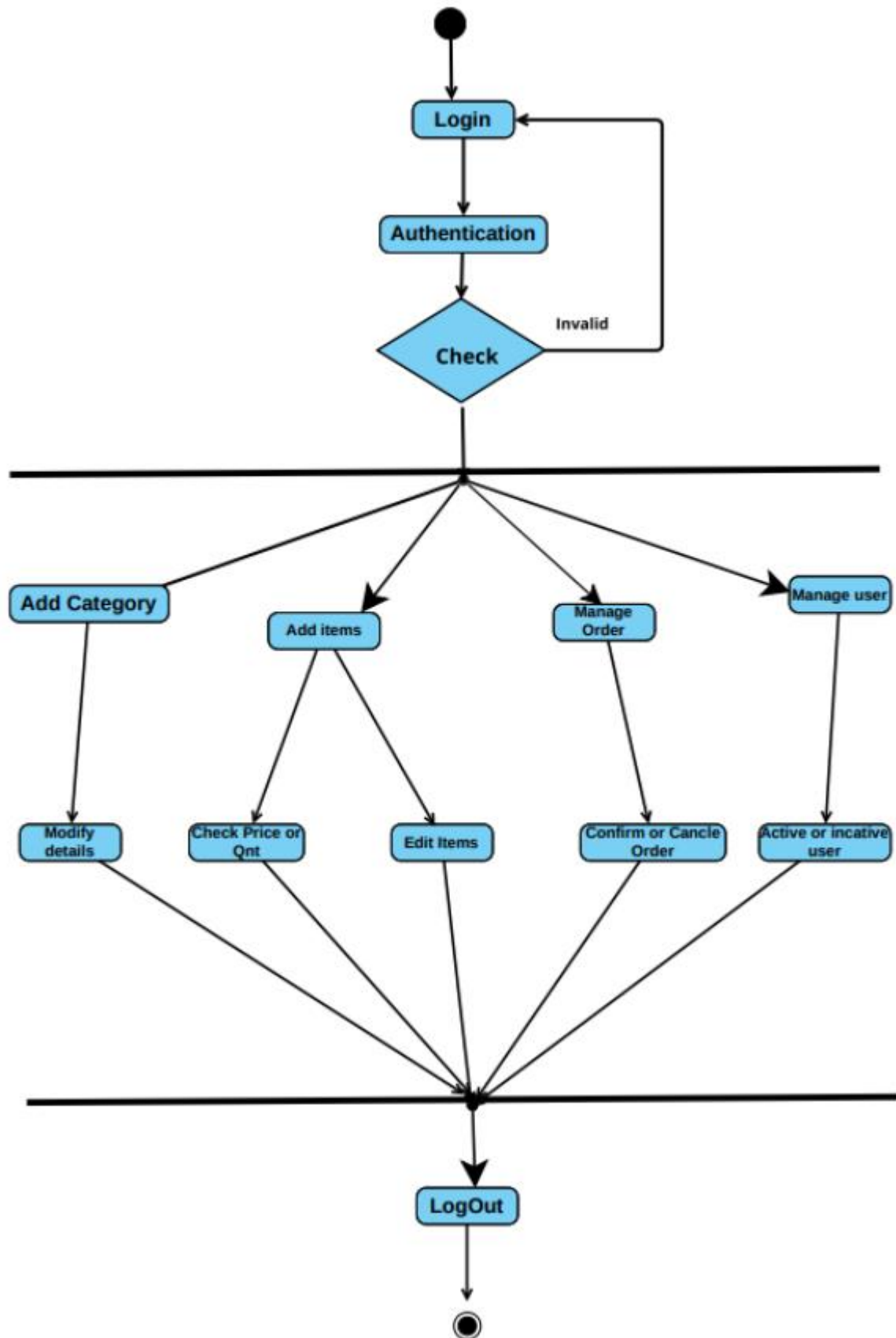
Collaboration diagram:-



Activity Diagram For user Side



Activity Diagram For Admin Side



HARDWARE AND SOFTWARE TO BE USED

Hardware:

- Processor : 1.6GHz -2.10GHz
- RAM : 8GB
- HDD/SSD : 1TB /256GB
- Monitor : 1024x768 resolutions □ Windows 10Home – i5 10Gen

Software:

- Development environment: VSCode
- Languages : JavaScript, Bootstrap, CSS, and HTML
- Word processing: MS Word 2019

WHAT CONTRIBUTION THE PROJECT WOULD MAKE?

The project will make a great contribution to the Internet users because the proposed system provides facility to buy and sell products online without setting up a physical store. It will allow the sellers to sell their products worldwide and the buyers to choose their required items from a variety of items of different category. It will therefore be a good alternative to a physical store. The different payment mechanisms will also facilitate the buyers to make their payments securely and reliably.

CONCLUSION

Online shopping is a popular trend in modern society. Today, people often prefer to buy products online from their home instead of going to a physical store. There are lots of advantages of online shopping. The customer can check the specifications of a product very carefully without anybody's interference. He can choose items of different categories and different brands without going to different stores. Online shopping systems provide 24 X 7 shopping facilities. The sellers also prefer to sell their products online because they can reach many customers in a short while. Online shopping systems also provide advertising space for new products. Our Online shopping system will also try to provide all these advantages of online shopping.

REFERENCES

Website references for project guidance and diagram creation.

- a) Synopsis Creation - [How To Write A Synopsis For Project Work - TECHARGE](#)
- b) Information gathering - [ChatGPT \(openai.com\)](#)
- c) Diagram creation :- <https://online.visual-paradigm.com>