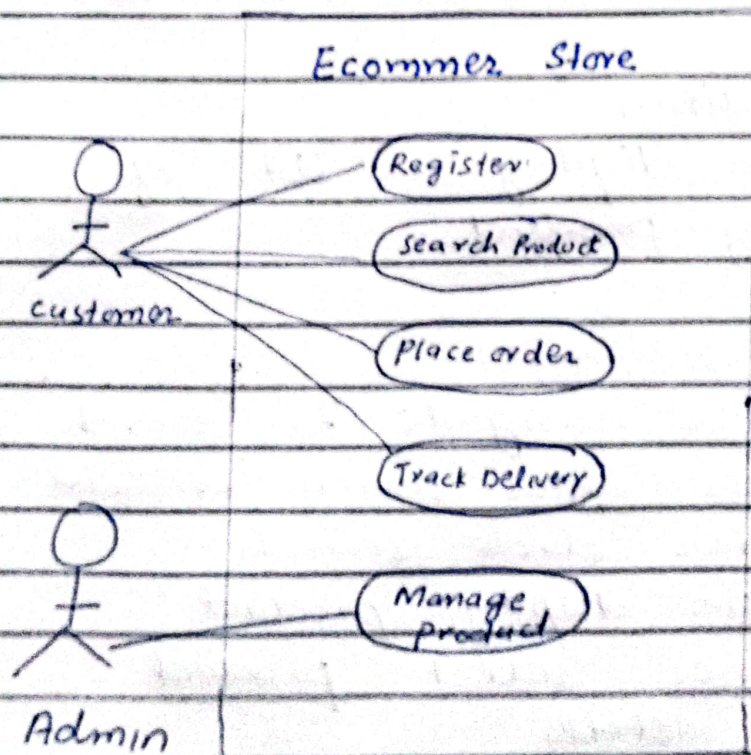# NAME :- ASSAD WAZEER

# REG NO: FA22-BSE-085

# CASE STUDY: Ecommerce website.

# DESCRIPTION:-

It is a web based application. It is an online platform where Individual buy goods or services. over the internet.

## ← USE CASE →

Ecommer Store

# (2) FULLY DRESSED USECASE

→ Usecase Name :-

  Title : Search Products

→ Usecase Id:-

  Identifier · UC-03 ·

→ Actors :-

  Primary Actor :- Customer

  Secondary Actor :- Admin

→ Pre Conditions

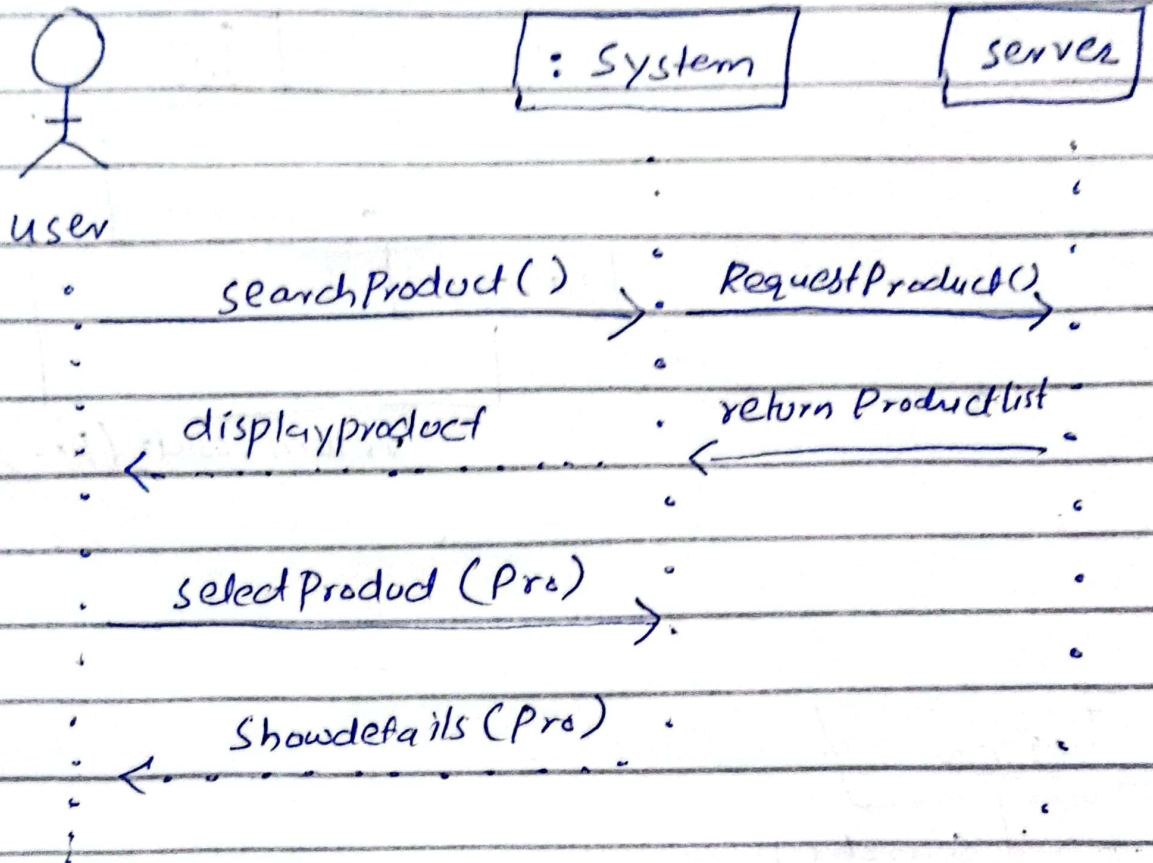  · Customer is logged in

  · product database is populated

→ Post Condition

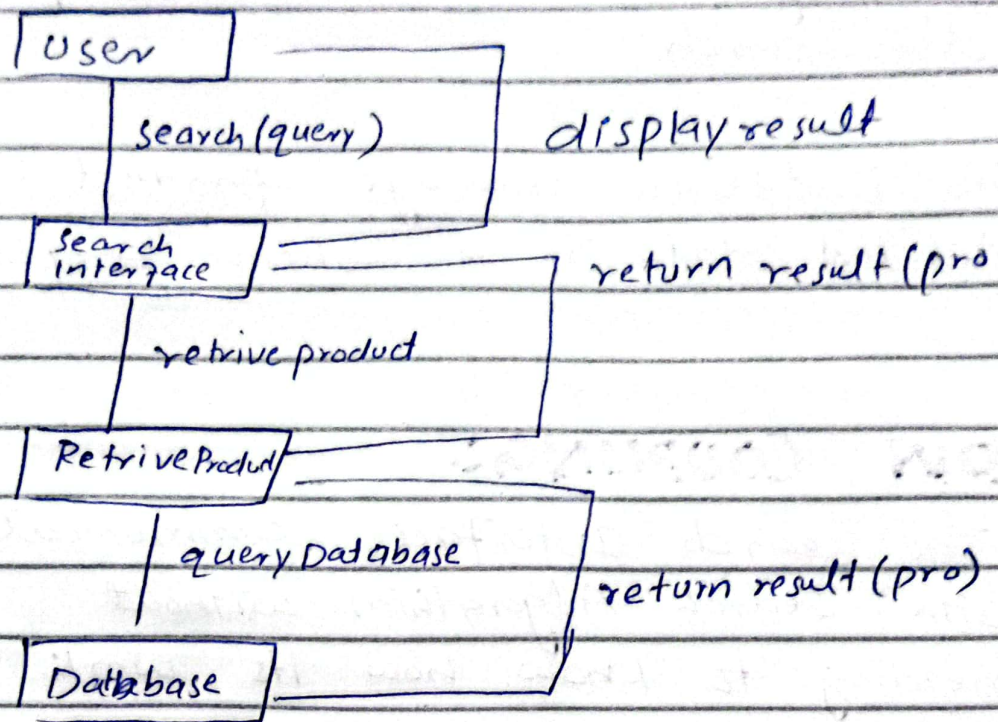  · System display a list of matching products.

→ Success Scenario:-

  · Customer navigate to "search"

  · Customer enter search criteria

  · Customer click search

  · system display product

  · Customer select product for details

# SYSTEM SEQUENCE DIAGRAM:



```
        O
       /|\                    : System            server
        |
       / \
      user

              searchProduct()          RequestProduct()
        |------------------------->|------------------------->|
              displayproduct            return Productlist
        |<-------------------------|<-------------------------|

              selectProduct (Pro)
        |------------------------->|

              Showdetails (Pro)
        |<-------------------------|
```

# COLLABORATION DIAGRAM



User

search (query)   display result

Search
Interface   return result (pro

retrive product

Retrive Product

query Database   return result (pro)

Database

# SINGLE RESPONSIBILITY PRINCIPLE

Each component should have only
one and one reason to change

→ " The Search Interface is responsible
for input "

→ " Search Algorathim is responsible for
Search logic"

→ " Database is responsible for
storing and providing Database "

# HIGH COHESION:-

→ The search Algorathim contain all logic related to processing the search

→ The Database manage product related data in a cohesive component

# LOW COUPLING:

→ The search Interface communicate with Search Algorathim without needing to know how its work."

→ Also search Algorathim communicate with Database without worrying about Data Structure

# CLASS DIAGRAM:-

**USER**

UserId : int

name : String

+SearchPro(P) : void

---

**DATABASE**

products : List<prod>

+get product : List<pro>

---

**PRODUCT**

productId : int

name : String

price : double

descrip : String

---

**SEARCH INTER**

query : String

inputQuery : void

displayresult<List>

---

**SEARCH ALGORATHIM**

result : List <products

+ SearchProducts(query : String) <prod>