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19AIE 105 Object Oriented Programming Project

ONLINE SHOPPING SYSTEM

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ABSTRACT

This is a small scale project for Online shopping system. The basic idea is that customers can buy products using online websites. The user can enter the name and password and can create an account and then purchase products.

The Online Shopping system enables customers to browse through the items/products and a system administrator to approve and maintain lists of products. Also on the agenda is designing an online shopping site to manage the items in the shop and also help customers purchase them online without having to visit the shop physically. Our online shopping system will use the internet as the sole method for selling goods to its consumers. Shopping will be highly personalized and will provide lower prices than most competitors.

It is an online store that enables website suppliers to sell their product online. It is a web shopping cart that enables the day-day sales functions. It includes product and customer management modules. This website will be useful to anyone who wants to purchase items using the internet.

Keywords: Online Shopping System, Shopping, Customer, Administrator, Items, E-shopping.
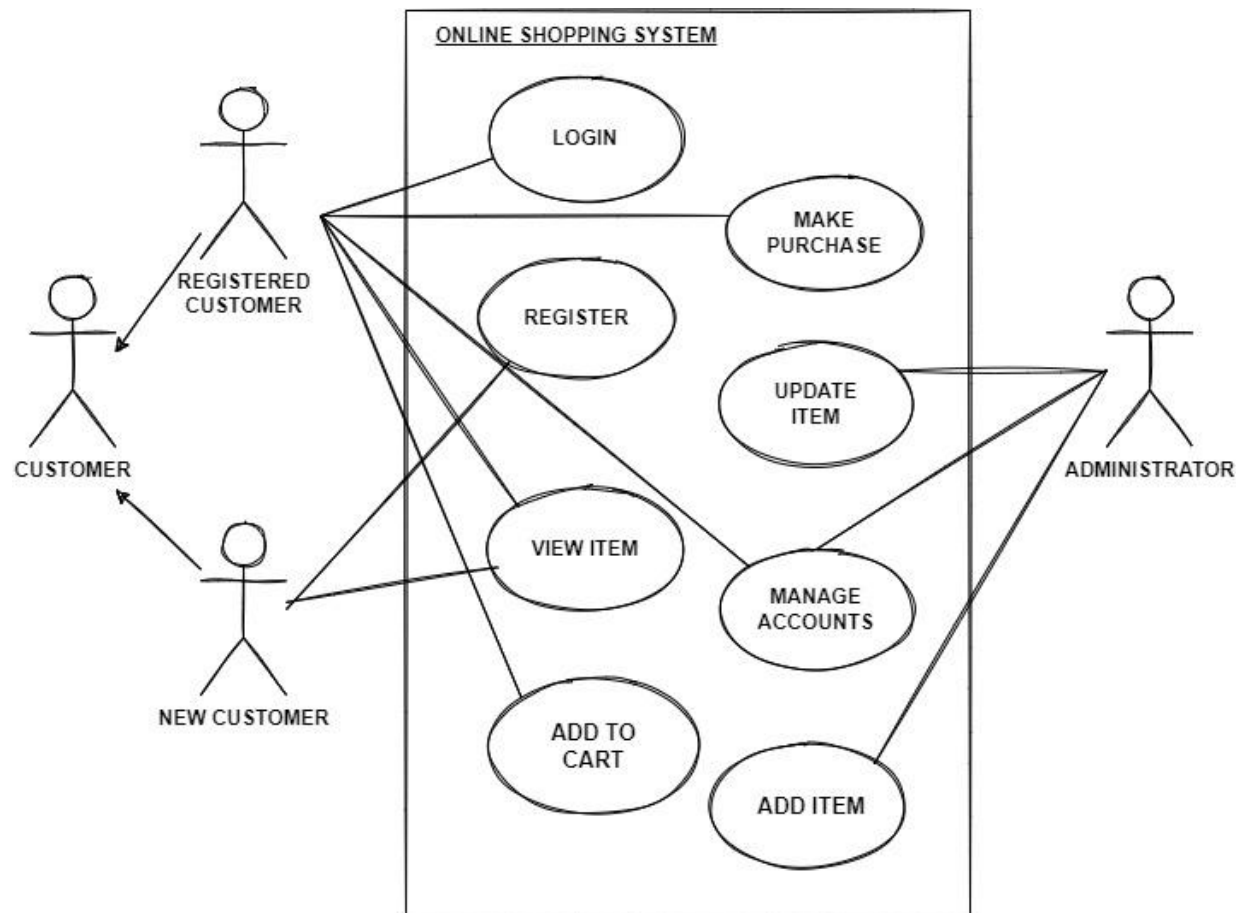
Functional Requirements of the System

1. The user/customer/admin should be registered at first to be able to perform further actions.
2. Each user accesses the system with the unique ID provided to update/view/delete the details.
3. JRE should be installed and the system RAM of 2GB required.
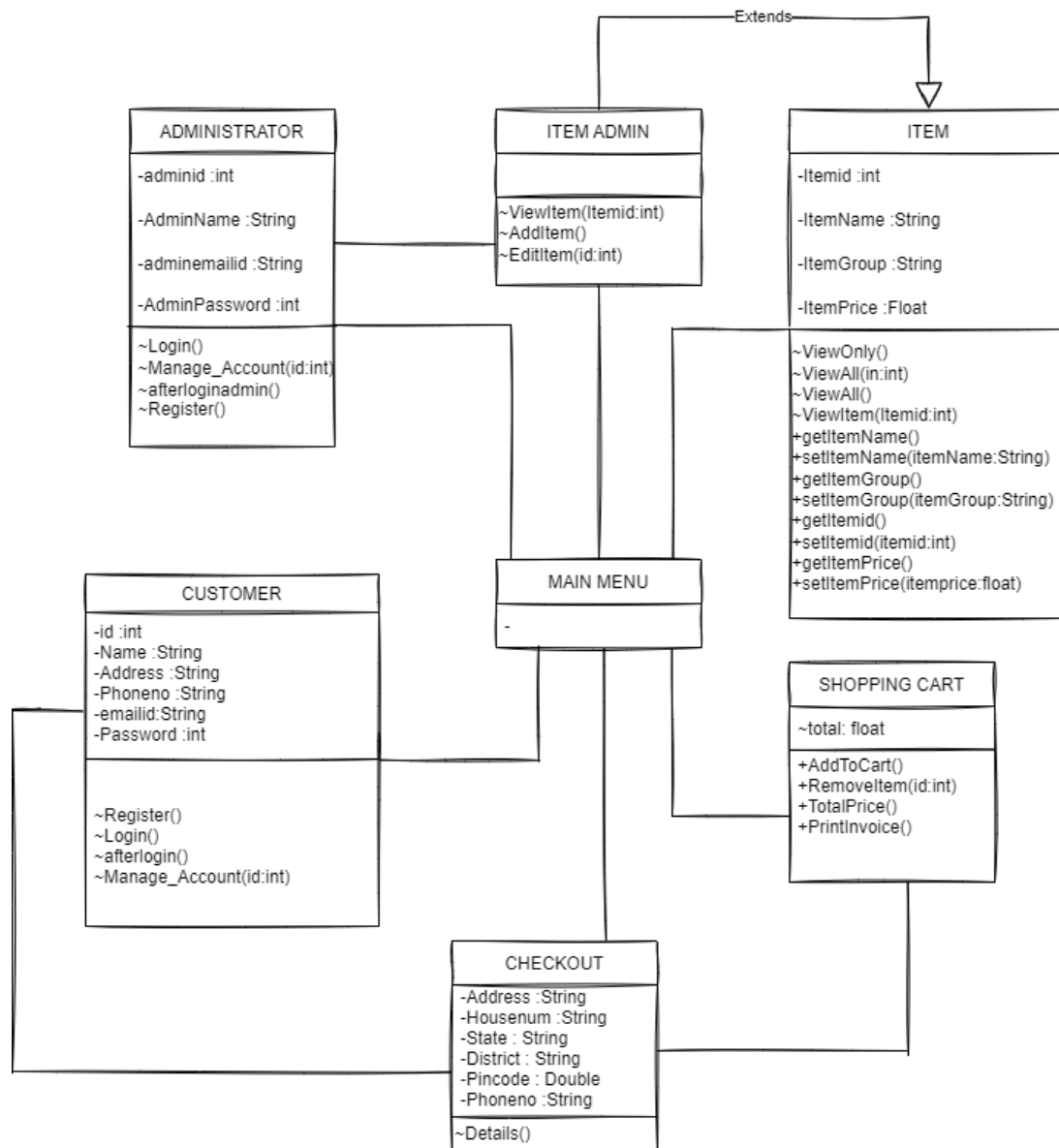4. Disk space of minimum 500 MB is necessary.

Use Case

Actors	Use case
Registered Customer	Login, view items, add to cart, Make purchase,Manage Account
New Customer	Registration, view item
Administrator	Manage account, Update Item details,Add Item

Use case diagram

ONLINE SHOPPING SYSTEM

LOGIN

MAKE PURCHASE

REGISTER

UPDATE ITEM

VIEW ITEM

MANAGE ACCOUNTS

ADD TO CART

ADD ITEM

REGISTERED CUSTOMER

CUSTOMER

NEW CUSTOMER

ADMINISTRATOR

Class Diagram

Extends

ADMINISTRATOR

-adminid :int

-AdminName :String

-adminemailid :String

-AdminPassword :int

~Login()
~Manage_Account(id:int)
~afterloginadmin()
~Register()

ITEM ADMIN

~ViewItem(Itemid:int)
~AddItem()
~EditItem(id:int)

ITEM

-Itemid :int

-ItemName :String

-ItemGroup :String

-ItemPrice :Float

~ViewOnly()
~ViewAll(in:int)
~ViewAll()
~ViewItem(Itemid:int)
+getItemName()
+setItemName(itemName:String)
+getItemGroup()
+setItemGroup(itemGroup:String)
+getItemid()
+setItemid(itemid:int)
+getItemPrice()
+setItemPrice(itemprice:float)

MAIN MENU

-

CUSTOMER

-id :int
-Name :String
-Address :String
-Phoneno :String
-emailid:String
-Password :int

~Register()
~Login()
~afterlogin()
~Manage_Account(id:int)

SHOPPING CART

~total: float

+AddToCart()
+RemoveItem(id:int)
+TotalPrice()
+PrintInvoice()

CHECKOUT

-Address :String
-Housenum :String
-State : String
-District : String
-Pincode : Double
-Phoneno :String

~Details()

Use Case Description

Use case ID	1. Register
Brief description	Users can register with the system and provide details.
Primary actors	New customer
Precondition	Need valid identification and contact number
Post condition	The user can login and shop
Main success Scenario	If a valid user, then display welcome message and give access to his/her account.
Actor action 1. User enters details needed for registration	System Response 2. Details verified and an account created .
Use case ID	2. Login

Brief description	The user can get access to the system using username and password
Primary actors	Registered customer
Precondition	Users must register with the system and should have valid login credentials.
Post condition	User can login and shop
Main success scenario	If a valid user, then display welcome message and give access to his/her account else return error message.
Actor action	System Response
1.The user enters login credentials and clicks on the login button. 3.The user gets access to the account main page.	2.Performs validation of login credentials. If a valid user, provides access.
Alternate Flow	2a. If not a valid user, the system returns an error message.

Use Case ID	3. View Item
Brief Description	User can view details of items for purchasing
Primary actors	Registered customer, New Customer
Precondition	User must have access to the shopping system
Post Condition	Users can view items and it's details.
Main Success Scenario	Users can add to cart for purchasing.
Actor action 1. User selects items shown on the screen.	System Response 2. Shows details about the items.
Use Case ID	4. Add to Cart
Brief Description	User adds products to the cart for purchasing.
Primary Actors	Registered Customer

Precondition	Users must be registered with the system. and should enter a valid item id.
Post Condition	The product will be added to cart
Main Success Scenario	Users can purchase products.
Actor Action	System Response
1.User adds product to cart	2.Displays items in cart and details of products.
Use Case ID	5. Make purchase
Brief description	Registered customer can make purchase
Primary actors	Registered Customer.
Precondition	Should be a registered customer and have items in the cart.

Post condition	After successful payment to the supplier, receive goods.
Main success scenario	Successfully purchased
Actor action 1.User provides the payment details to make purchases.	System Response 2. Verifies the payment details and confirms purchase.
Use Case ID	6. Manage Account
Brief description	User can edit his/her details and update it.
Primary actors	Admin , Registered Customer
Precondition	Admin/Customer should be registered
Post condition	Account will be updated.
Main success scenario	After updation user/admin can continue with shopping.

Actor action	System Response
1.User/Admin can select which details to edit such as password, address, phone number ,email id and update it.	2.Details are properly updated.

Use Case ID	7.Update Item
Brief description	Admin can update details of items such as price.
Primary actors	Admin
Pre condition	Admin should be registered
Post condition	Item price updated.
Main success scenario	Item price updated and customers can view updated details.

Actor action	System Response
1. Admin selects which item price to be edited and updates it.	2.The item price is updated.

Use Case ID	8.Add Item
Brief description	Admin can add item with all necessary details.
Primary actors	Admin
Pre condition	Admin should be registered
Post condition	New Item added.
Main success scenario	Item is added to ItemList and customers can view and purchase it.

Actor action	System Response
1.Admin inputs details of new item to be added.	2.Item is added to file.

INPUT/OUTPUT SCREENSHOTS

a. Customer

```
@ Javadoc  Declaration  Console  ×
MainMenu (1) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (03-Feb-2022, 11:43:16 pm)
----ONLINE SHOPPING SYSTEM----
Choose whether you are an Admin or a Customer
1.Admin
2.Customer
3.Exit
2
1.Register
2.Login
3.View Items
4.Back
1
Enter Name:
Priya
Enter Address:
201LakeViewVillaMumbai
Enter emaild:
priya@gmail.com
Enter Phoneno:
9878765434
Enter id (numbers only):
0102
Enter password (numbers only):
0102
User Successfully Registered
Welcome Priya
Choose option

1.Item Menu
2.Manage Account
3.Back
```

Registration of Customer

```
@ Javadoc  Declaration  Console  ×
MainMenu (1) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (03-Feb-2022, 11:43:16 pm)
Welcome Priya
Choose option

1.Item Menu
2.Manage Account
3.Back
1
1.View All Items
2.View a selected Item
1

id: 1
Name: Smartphone
Group: Electronics
Price: 30000.0
1.View All Items
2.View a selected Item
2
Enter id of item to be viewed
1

id: 1
Name: Smartphone
Group: Electronics
Price: 30000.0
Do you want to add this item to cart?
1.Yes
2.No
```

Customer purchasing item

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```
id: 1
Name: Smartphone
Group: Electronics
Price: 30000.0
Do you want to add this item to cart?
1.Yes
2.No
1
Do you want to continue or checkout?
1.Continue Shopping
2.Checkout
2
-----BILL-----
1
Smartphone
30000.0
Total Amount = 30000.0
Do you want to continue to payment or remove items in cart?
1.Make Payment
2.Edit Cart
1
--Mode of Payment--
Choose the option:
1. Debit /Credit /ATM cards
2. Cash on Delivery (COD)
3.Back
```

Customer Purchasing Item

```
1
The delivery details for your order:
Enter Delivery Address:
201LakeViewVilla
Enter House number:
201
Enter State:
Maharashtra
Enter District:
Mumbai
Enter Phoneno:
9878765434
Enter Pincode:
675409
Enter the name of the card holder:Priya
Enter the card number:203240987805
Enter CVV (the three digit number printed on the back of the card):
222
Enter the expiry DD/MM/YYYY08092025
Verify you delivery details
201LakeViewVilla
201
Maharashtra
Mumbai
9878765434
675409
1. To continue payment
2. To stop payment
```

Customer Purchasing Item

```
1. To continue payment
2. To stop payment

1
-----------Your order is success----------
Exiting from program..
Thankyou for using this shopping system!
```

Order Placed

```
MainMenu [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe  (04-Feb-2022, 12:25:54 am)

Name: Priya
Address: 201LakeViewVillaMumbai
emailid: priya@gmail.com
Phoneno: 9878765434
id: 102
MANAGE ACCOUNT
1.Change Password
2.Change Address
3.Change Phoneno
4.Change emailid
5.Back
2
Enter new Address:
202LakeViewVillaMumbai
Address changed successfully

Welcome Priya
Choose option

1.Item Menu
2.Manage Account
3.Back
2

Name: Priya
Address: 202LakeViewVillaMumbai
emailid: priya@gmail.com
Phoneno: 9878765434
id: 102
MANAGE ACCOUNT
1.Change Password
2.Change Address
3.Change Phoneno
4.Change emailid
```

Changed Address
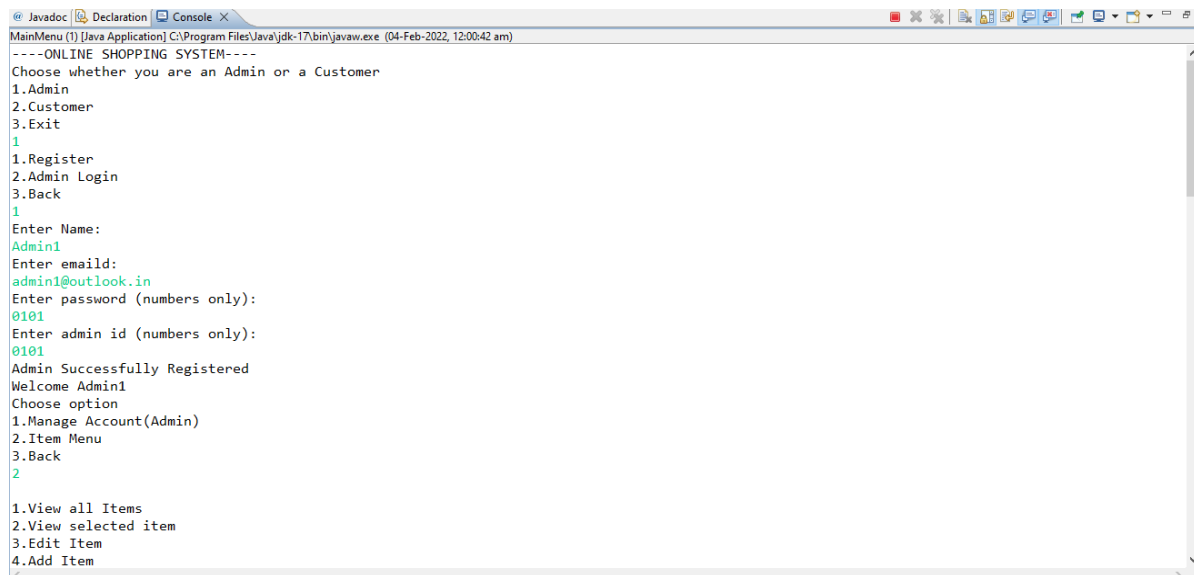
```
Enter UserName id:
0102
Enter password:
0102

Welcome Priya
Choose option

1.Item Menu
2.Manage Account
3.Back
```

Customer Login

b.Admin

```
@ Javadoc  | @ Declaration | 🖵 Console ×
MainMenu (1) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe  (04-Feb-2022, 12:00:42 am)
----ONLINE SHOPPING SYSTEM----
Choose whether you are an Admin or a Customer
1.Admin
2.Customer
3.Exit
1
1.Register
2.Admin Login
3.Back
1
Enter Name:
Admin1
Enter emaild:
admin1@outlook.in
Enter password (numbers only):
0101
Enter admin id (numbers only):
0101
Admin Successfully Registered
Welcome Admin1
Choose option
1.Manage Account(Admin)
2.Item Menu
3.Back
2

1.View all Items
2.View selected item
3.Edit Item
4.Add Item
```

Admin Registration

Price of item updated

New item added

```
Item added.
1.View all Items
2.View selected item
3.Edit Item
4.Add Item
5.Back
1

id: 1
Name: Smartphone
Group: Electronics
Price: 33000.0

id: 2
Name: Lipstick
Group: Cosmetics
Price: 200.0

1.View all Items
2.View selected item
3.Edit Item
4.Add Item
5.Back
```

New item added.

```
1.Register
2.Login
3.View Items
4.Back
2
Enter UserName id:
0102
Enter password:
0102

Welcome Priya
Choose option

1.Item Menu
2.Manage Account
3.Back
```

Admin Login

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```
Welcome Admin1
Choose option
1.Manage Account(Admin)
2.Item Menu
3.Back
1

Name: Admin1
emailid: admin1@outlook.in
id: 101
MANAGE ACCOUNT
1.Change password
2.Change emailid
3.Back
2
Enter emaild:
admin01@gmail.com
emailid changed successfully

Welcome Admin1
Choose option
1.Manage Account(Admin)
2.Item Menu
3.Back
1
|
Name: Admin1
emailid: admin01@gmail.com
id: 101
MANAGE ACCOUNT
1.Change password
2.Change emailid
3.Back
```

email id changed

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