online shopping system

a web based app used to record , sales online scale and purchase and handle payments .

Overview

The system Provides customers with the ability to perform online purchase on products .

Info is protected by login and password

Customers are identified properly and are able to perform online transactions using credit card and other ways like paypal etc.

- A customers are able to make a cart and add products to it and delete them as well.

Scope and purpose

- Nowadays, one of the biggest transformations using technologies is the online shopping system. It also has almost the same size of the market as a general physical market possesses.
- People in large number are doing online shopping today, and it is not only because it is convenient as one can shop from home, but also because there is an ample number of varieties available, with a high competition of prices, and also it is easy to navigate for searching regarding any particular item.
- So, This project is a web based app revolves around the aim to facilitate the user to search and get his need in a fastest and safe way.

Functional Requirements

Register User

input	Basic information of customer.
Description	The new user must be register to access the features of the system.
output	User is successfully register (ok, invalid).
Precondition	User must be register to buy anything.
Postcondition	Now,the user can buy anything or use any feature the system is provide beyond.

Functional Requirements (cont)

Login user:

input	Enter username and password of
Description	User must input username and pass to access of his/her account that would find shopping cart and what his/her preferences from last visit to the system (online shopping app)
Output	New page will appear to the user which is the "Home Page" of the system
Pre-condition	The user must be a registered user, or he must register as a new user.
Post-condition	The user will be able to use the features of the system .

Functional Requirements (cont)

View products:

Input	User will type what he want in the search bar
Description	User will type what he want in the search bar or he will see random products through the interface of system
output	Product will be displayed
Pre-condition	None
post-condition	None

Functional Requirements (cont)

Add products to cart:

Input	Product id and product title or by GUI will select the item
output	The system will display a message that item is added to the cart
pre-condition	User must be registered
Post-condition	The system ask user how many items are needed

Functional Requirements (cont)

Cancel product:

input	Product id and product title
description	that item will be cancelled from the cart
output	The system will display a message that item is cancelled from the cart
pre-condition	User must select the particular product
post-condition	Successful Process

Functional Requirements

Make payment :

Input	Name , account name , pin code
Description	User will enter in bank account for online transaction
output	Transaction started .
pre-condition	User must select the type of his payment credit
post-condition	Successful transaction.

Non-Functional Requirements

❏ The interface gives the response in less than 10 seconds.
❏ The system should support 500 requests per minute.
❏ The system must be secure.
❏ The system should be maintainable so that if any change occur it doesn't effect.
❏ The system should be easy to use by users.

system development model

❏ We use <u>waterfall</u> model :

As our system is linear and sequential in nature following gradually downward similar to waterfall.

Also our project is small , all reqs are well-defined and there is no risk involved in it.

Normal scenario

If customer doesn't have account: enter registration info.

Else, customer enter login info .

 After that:

❏ System display product menu and the user can search for any item .
  ❏ Customer can add any item he wants to buy it to shopping cart .
  ❏ System verify the availability of the item

Normal scenario (cont)

If the item is available , system display message indicate the item added to shopping cart
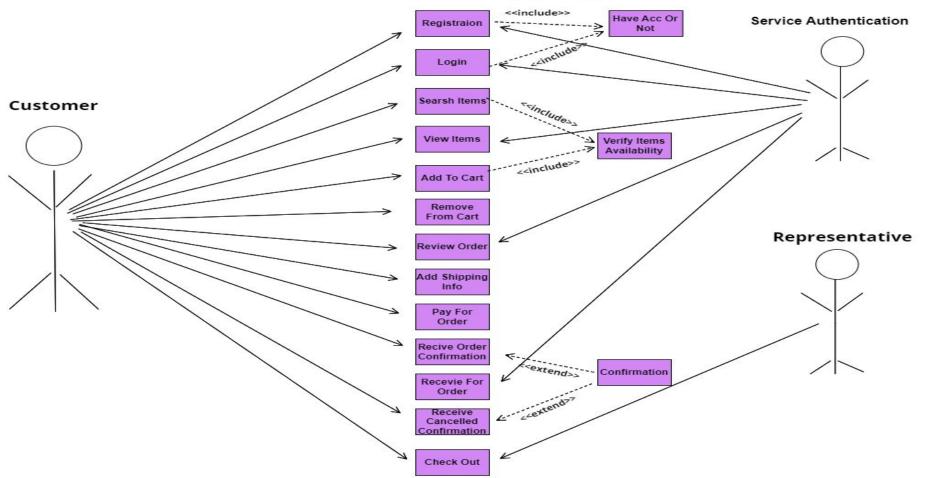
Afterwhile customer can remove the item from shopping cart if he like

Customer proceed to checkout

Normal scenario

- System ask user to provide shipping and billing info
- Customer provide shipping and billing info
- System confirm the shipping information , process the order and ship out the item.
- Customers receive the items from the representatives.

Online Shopping

Use Case Diagram

Customer

Service Authentication

Representative

- Registraion
- Have Acc Or Not
- <<include>>
- Login
- <<include>>
- Searsh Items
- <<include>>
- View Items
- Verify Items Availability
- Add To Cart
- <<include>>
- Remove From Cart
- Review Order
- Add Shipping Info
- Pay For Order
- Recive Order Confirmation
- Recevie For Order
- Confirmation
- <<extend>>
- Receive Cancelled Confirmation
- <<extend>>
- Check Out

Customer

Acc Info

1 Registraion / Login

Acc Info

Item Search Query

3 View Items

Confirm / Cancel Receipt

7 Recive Order Confirm / Cancel

Pay Info

D 1 Account file

2 Searsh Items

4 Add To Cart

8 Add Shipping Info

Search Query

5 Remove From Cart

9 Pay For Order

Pay Receipt

D 2 Item File

Search Result

Confirm / Cancel Info

2.2 Verify Items Availability

Item & Availability Info

6 Review Order

Order Info

10 Recevie For Order

11 Check Out

Item Info

Availability Info

Acc Info

Confirm / Cancel Info

Pay Receipt

Service Authentication

Representative