

# Online Shopping Site

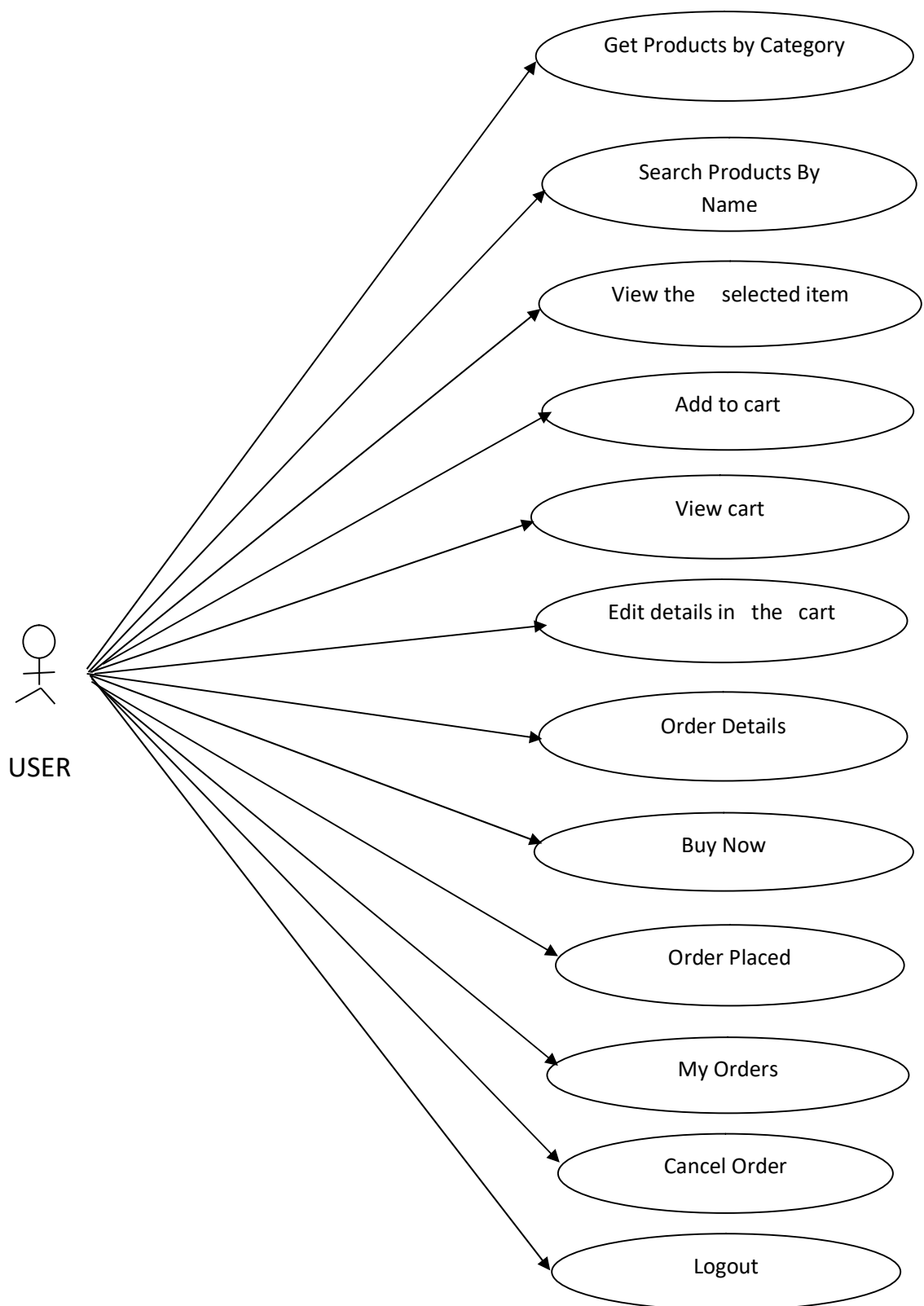
## SYNOPSIS :

The **Online Shopping Site** is a web based application, which helps user to find and shop latest varieties of products easily with different styles that are available in the market through online. It is an user-friendly website where user can shop through mobile or laptops with reasonable prices so that user can save their time as well as money.

The basic functions of Online Shopping Site provides the following features :

- A) Home Page
- B) Product Search Facility
- C) Product Details Page
- D) Add to Cart Functionality
- E) Login Page
- F) Order Placement
- G) Logout

## USE CASE DIAGRAMS :



## SPECIFICATION OF USE CASES :

### 1) Home Page :

Home Page of Online Shopping Site displays the categories that are present in the website and it is provided with a search button. Through these user can view the products based on categories or from search bar. It also contains the cart image where the user can know the items in cart along with my orders and logout button.

Home Page Of Online Shopping Site	
Element	Action
Actor	User
Trigger	User will get the details using name or category of the product.
Pre-conditions	It displays all the categories that are present in the website
Post-Conditions	After search operation or clicking on category user can navigate to the next page.
Normal Course	<ol style="list-style-type: none"><li>1) Home page will be displayed.</li><li>2) User can get the details on using search bar.</li><li>3) User will get the details according to his selection on category.</li></ol>

## 2) Get Products By Category :

The user can view the list of products present in the category by clicking on the categories that are provided in the home page.

Get the products list by category	
Element	Action
Actor	User
Trigger	User will get the list of products
Pre-Conditions	Home page will contains the list of categories
Post-Conditions	After clicking on the category, user will get the list of products.
Normal Course	<ol style="list-style-type: none"><li>1) User clicks on the category name.</li><li>2) It will redirects to the next page where user can see or know the list of the products present in the category.</li></ol>

### 3) Product Search Facility :

In Home page, the search bar helps the user in order to search his/her product using product name as he/she wishes.

Search Product Using Product Name	
Element	Action
Actor	User
Trigger	User wants to search the details using name of the product.
Pre-Conditions	It just displays the categories that are present in the database.
Post-Conditions	User can able to search the product he/she wants.
Normal Course	<ol style="list-style-type: none"><li>1) Home page will be displayed with all the categories and search bar.</li><li>2) User enters the product name in the search bar and will get the products according to search.</li></ol>

#### 4) Product Detail Page :

The Searched product by the user will be displayed. It contains all the relevant information regarding the product.

View the selected item	
Element	Action
Actor	User
Trigger	User will get the details of the product
Pre-Conditions	Page contains all the details present in database.
Post-Conditions	After searching the product, User will be able to see all the details of the product in another page.
Normal Course	<ol style="list-style-type: none"><li>1) User clicks the search button after entering the product name.</li><li>2) A new page will be displayed with all the details of the products that the users wishes to search.</li></ol>

## 5) Add to Cart Functionality :

The selected product of the user or the product which the user wants to buy, will be added to cart when clicked on add to cart button. It will redirects to the Add to cart page.

Adding Product to Cart	
Element	Action
Actor	User
Trigger	User can add the product to cart.
Pre-Conditions	No items in the cart.
Post-Conditions	User can add the items in the cart.
Normal Course	<ol style="list-style-type: none"><li>1) Initially, the cart will be empty.</li><li>2) When user wants to buy any product that are available, he will choose the product and click on add to cart button.</li><li>3) It will add the items to the cart.</li></ol>

## 6) Display Cart Items :

This will display the cart items. Here, user can see the list of items or single item that is added in the cart.

Display the items that are added to cart	
Element	Action
Actor	User
Trigger	Displaying the products that are added to cart.
Pre-Conditions	The items are added to cart.
Post-Conditions	The items that are added to cart can be seen when clicked on display button.
Normal Course	<ol style="list-style-type: none"><li>1) When add or remove or edit operations are performed and if user wants to know how many items and what are the items in the cart, he can easily see the details.</li><li>2) Details are displayed to the user that he/she added to cart.</li><li>3) It also contains Continue Shopping button, if user wants to add more products, he/she can add as it redirects to home page.</li></ol>



## 7) Edit Cart items :

When the user adds the product to the cart, if he wishes to change the items count if he requires more number of products of same product.

Edit the items in the cart	
Element	Action
Actor	User
Trigger	User can edit the number of items in cart.
Pre-Conditions	User will just have the items that are added to cart.
Post-Conditions	User can edit the details of the product like quantity required for the same product
Normal Course	<ol style="list-style-type: none"><li>1) Initially, Cart will have the added item</li><li>2) If the user requires more items of same product i.e., quantity. He can increase or decrease the number of the selected product in the cart</li><li>3) Edited details will be saved.</li><li>4) User can go to next page for order summary by clicking on post to cart button.</li></ol>

## 8) Order Details :

This will display the details of the cart i.e., displays the order summary of the products before buying the product. This just gives the details of the cart for further verification of the user about his items that he added. And it also displays the total price of all the items that are added to cart.

Display the Summary of the Cart Items	
Element	Action
Actor	User
Trigger	Summarizing the products that are added to cart before buying.
Pre-Conditions	The items are added to cart.
Post-Conditions	The items that are added to cart can be seen when clicked on post to cart button. The total price will be displayed.
Normal Course	<ol style="list-style-type: none"><li>1) The added products for cart will be displayed.</li><li>2) When post to cart is done, it redirects to another page where it gives the summary of the cart items added.</li><li>3) It will give the total price of all the items added in the cart.</li><li>4) Store the cart items in database.</li></ol>

## 9) Buying the product (Or) Placing the Order:

After the user gets to know about the cart summary along with the total price and for buying the products, (when clicked on buy now button) the login page will be displayed. And in this login page, the validations are performed based on user name and password.

Buying or Placing the order	
Element	Action
Actor	User
Trigger	When clicked on buy now button , it will redirects to login page
Pre-Conditions	Before clicking on Buy Now button, the user will have the summary of his cart items.
Post-Conditions	After clicking on Buy Now, it will redirects to next page for further validation process.
Normal Course	<ol style="list-style-type: none"><li>1) When User wants to buy the product or products in his/her cart, he can click the button so that he can redirects to next action called login.</li><li>2) Here it will check the conditions and verifies whether the user enters correct details or not.</li><li>3) If it's not correct, it will not move to next page.</li><li>4) If the details are correct then user will goes to the next page.</li></ol>

## 10)Order Placed :

After validations performed, and clicked on the submit button, it will redirects to success page.

Order Placed	
Element	Action
Actor	User
Trigger	Clicking on submit button
Pre-Conditions	Login validations are performed
Post-Conditions	When the details entered was correct then he will redirects to the page where there will be success message.
Normal Course	Based on the details entered by user, User can view the next page of success if the details are correct.

## 11) My Orders :

Here on the top, when the user clicks on My orders button, user can view the details of the products after placing the order.

My Orders	
Element	Action
Actor	User
Trigger	User can view the items that he placed the order.
Pre-Conditions	Placing the order and returns the successful message.
Post-Conditions	When user clicks on my orders, the user can see the products that he/she placed.
Normal Course	<ol style="list-style-type: none"><li>1) User can be able to see the orders that are placed.</li><li>2) Here, this page will contains the cancel order button for each product.</li><li>3) It also contains Continue Shopping button, if user wants to add more products, he/she can add as it redirects to home page.</li></ol>

## 12)Cancel Order :

If the user wants to cancel the order after he/she placed, then on the my orders page there will be a button for cancelling the order. By clicking on that, the user can simply cancel the order and the data will be removed from the database too.

Cancelling the order	
Element	Action
Actor	User
Trigger	User can Cancel the order
Pre-Conditions	User will have the products that are placed for order.
Post-Conditions	If the user wants to cancel the order, he can simply click on that button.
Normal Course	<ol style="list-style-type: none"><li>1) The ordered items can be seen by the user when clicked on My Orders button.</li><li>2) Here, the user can easily cancel the order that was placed.</li></ol>

**13)Logout :** The user can logout from the site whenever he/she wants.

Logout	
Element	Action
Actor	User
Trigger	Clicking on Log out Button
Pre-Conditions	Only one user can add and place order every time.
Post-Conditions	By using this logout button, different users can login and place their orders.
Normal Course	<ol style="list-style-type: none"><li>1) Logout Button enables the user to come out of that page.</li><li>2) It displays a simple message.</li><li>3) And this page was provided with Home button. When clicked on that it simply redirects to the home page.</li></ol>

**Online Shopping Site ER Diagram:** This ER(Entity Relationship) Diagram represents the model of Online Shopping Site Entity. The entity-relationship diagram of Online Shopping System show the visual instrument of database tables and the relations between category, products, cart, Login, orders etc., It used structured data and to define the relationships between structured data groups of Online Shopping Site functionalities. The main entities of Online Shopping Site are Categories, Products, Cart, Login.

## Online Shopping Site Entities and their Attributes

**Home Entity :** Attributes of Home Entity contains Category Id and Category Name.

**Products Entity:** Attributes of Products Entity contains Pid (Product Id), Product Name, Picture, Price.

**ProductDetails Entity :** Attributes of Product Details Entity contains Pid (Product Id), Product Name, Picture, Price, Content(Description) and Display method for how to display the content.

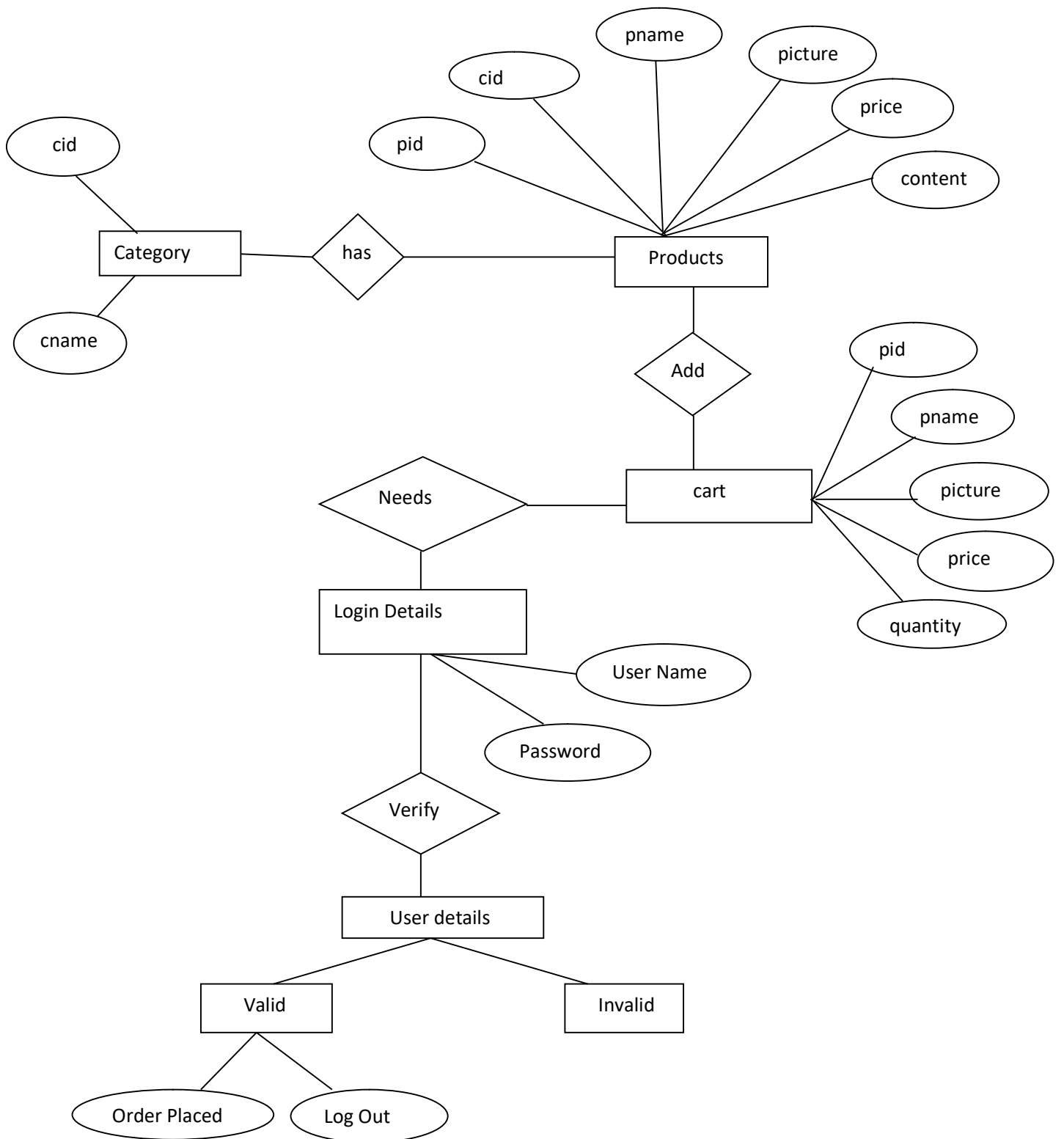
**CartItems Entity :** Attributes of CartItems Entity contains Pid (Product Id), ProductName, Picture, Quantity, Price.

**LoginDetails Entity :** Attributes of LoginDetails Entity contains UserName and Password.

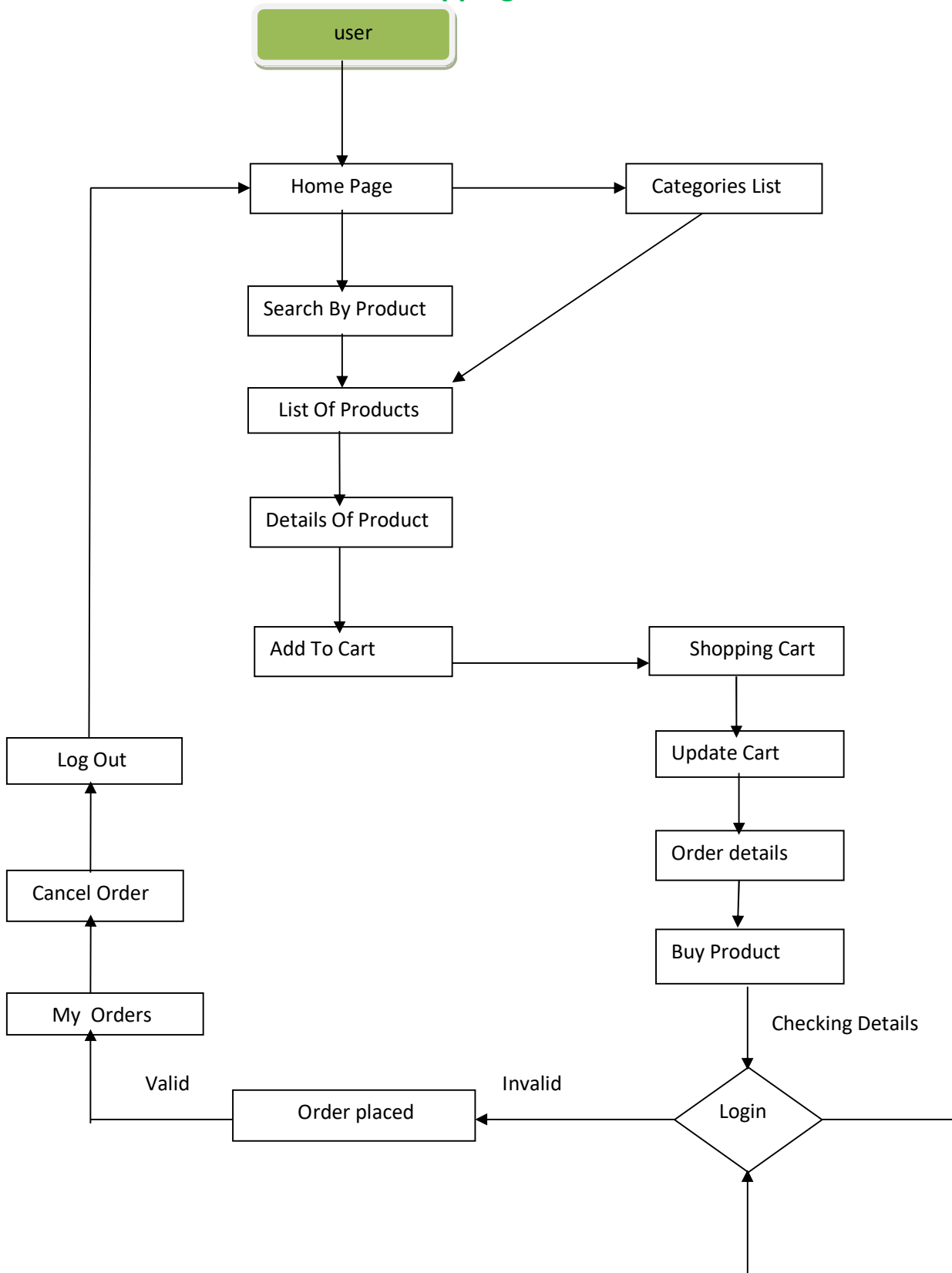
## Description of Online Shopping Site Database

- The details of Categories is stored in ol\_category table(cid, cname) that contains category id and category name having category id as primary key.
- The details of Products is stored in ol\_product table(pid, cid, pname, picture, price, content) that contains product id which is a primary key, category id which is a foreign key, image, price and content(description) of product.
- The details of Cart is stored in ol\_cart (pid, pname, picture, price, qty) that contains product id (pid) which is a foreign key, product name, image, price and quantity.
- The details of User is stored in ol\_login (username, password) that contains name of the user and his password for login purpose.





## Flow Chart for Online Shopping Site



## DATABASE TABLES:

### Category Information Table (ol\_category)

Field Name	Type	Note	Remark
Cid	Int	Category Id	PK, Self-Add
Cname	Varchar	Category Name	

### Product information table (ol\_product)

Field Name	Type	Note	Remark
Pid	Int	Product Id	PK, Self-Add
Cid	Int	Category Id	FK
Pname	Varchar	Product Name	
Picture	Varchar	Picture of Product	
Price	Int	Price of Product	
Qty	Int	Quantity	
Content	Varchar	Description	

### Cart Information Table (ol\_cart)

Field	Type	Note	Remark
Pid	Int	Product Id	FK, Self-Add
Pname	Varchar	Product Name	
Picture	Varchar	Picture of Product	
Price	Int	Price of Product	

### User Information Table (For login)(ol\_login)

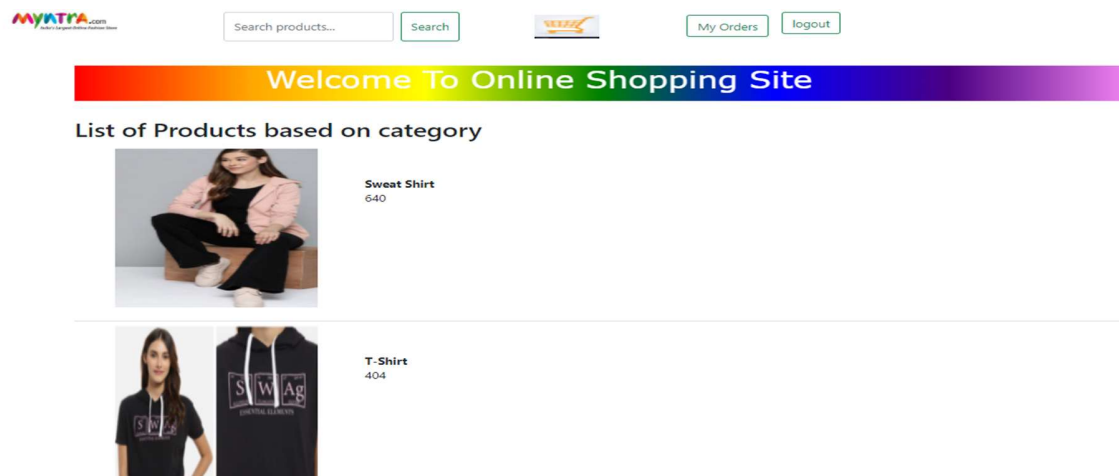
Field	Type	Note	Remark
User Name	Varchar	User Name	
Password	Varchar	Password	

## SNAPSHOTS OF OUTPUT:

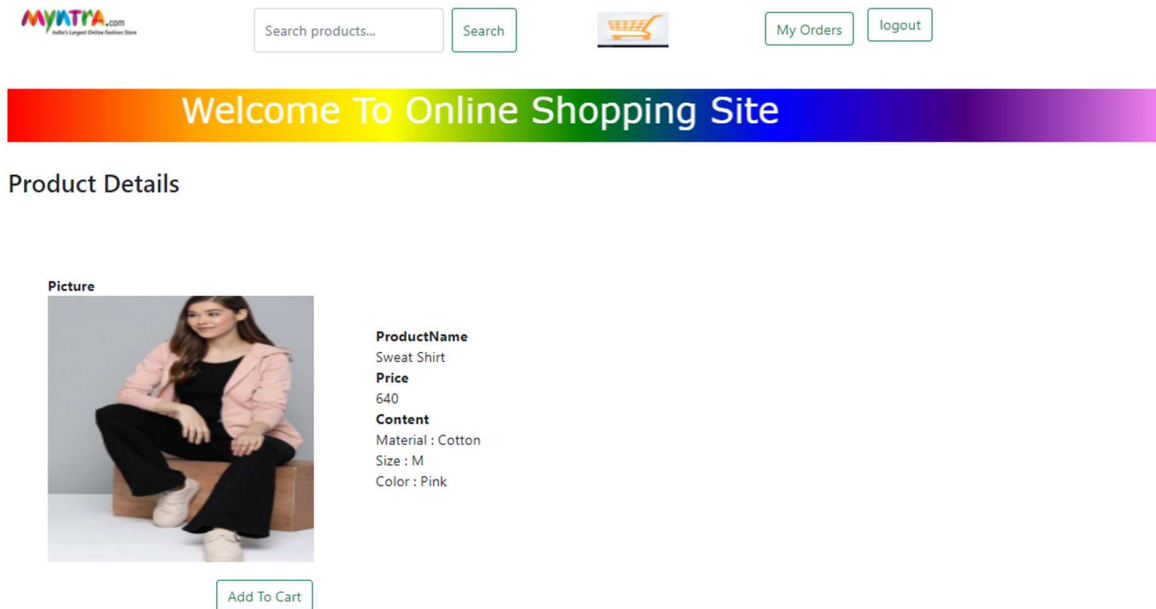
## 1) Home Page of Online Shopping Site



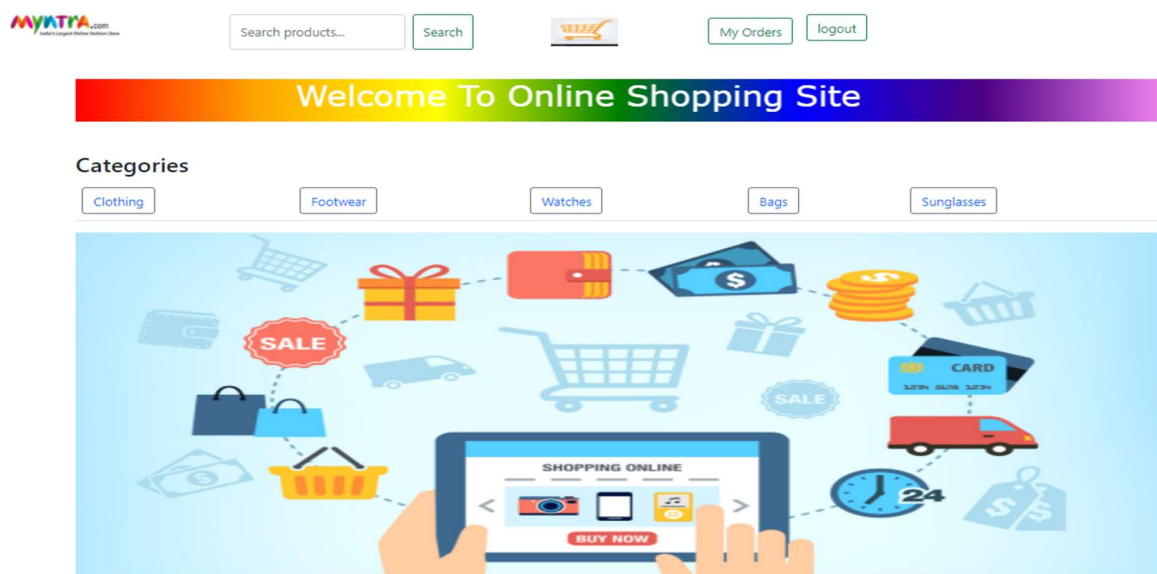
2) This page appears when User clicks on Category called "Clothing"



3) This page will appear when user selected one of the products from “Clothing” category



4) This page appears when user clicks on “Add To Cart ” button. Here, it redirects to “Home” page.

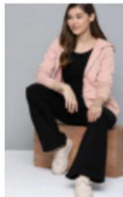


5) This page appears when the user clicks on “cart” symbol that is in layout to see the items that are added to cart. Here, if no modifications in quantity was required then user can click on “Post To Cart” button. Here the details will be stored to database.



## Welcome To Online Shopping Site

### Cart Items

Pid	ProductName	Picture	Quantity	Price	
1	Sweat Shirt		1	640	<input type="button" value="Edit"/>

6) This page appears when user clicks on “Edit” button that was displayed in the above image.



## Welcome To Online Shopping Site

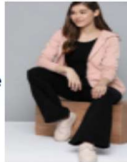
### Update Cart Items

---

Pid 1

ProductName Sweat Shirt

Picture



Quantity

Price 640



## Welcome To Online Shopping Site

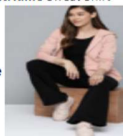
### Update Cart Items

---

Pid 1

ProductName Sweat Shirt



Picture



Quantity


Price 640

7) When the user “clicks” on “Save” button after updating the items in cart. This page will be displayed having the added cart item along with the updated quantity.





Welcome To Online Shopping Site

Cart Items

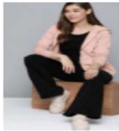
Pid	ProductName	Picture	Quantity	Price	
1	Sweat Shirt		4	640	<input type="button" value="Edit"/>

This page will be display the total amount of the items present in the cart.



Welcome To Online Shopping Site

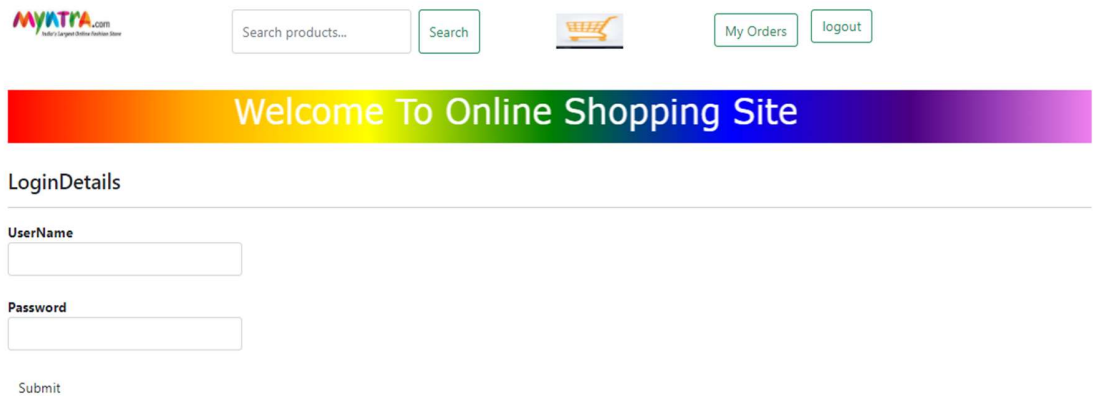
PostToCart

Pid	ProductName	Picture	Quantity	Price
1	Sweat Shirt		4	640

Total Amount : Rs. 2560



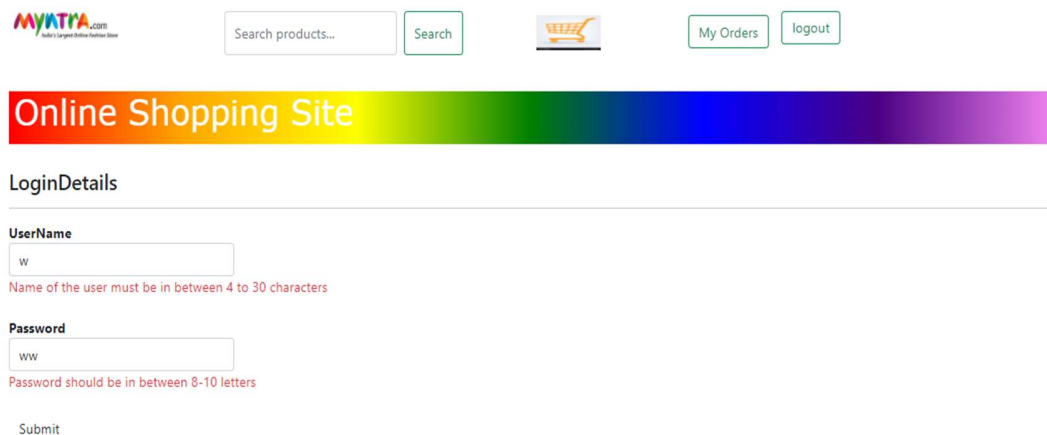
8) When the user clicks on “Buy Now” button that was in the above image, it will display the login page as below. Here, the user needs to give the proper details. So, then it will redirects to next page. Below image shows how the page will be displayed when user clicks on “Buy Now” button.



The screenshot shows the top navigation bar of the MYNTIA website. It includes the MYNTIA logo, a search bar with a 'Search' button, a shopping cart icon, and links for 'My Orders' and 'logout'. Below the navigation bar is a large rainbow-colored banner with the text 'Welcome To Online Shopping Site'. Underneath the banner is a 'LoginDetails' section with two input fields: 'UserName' and 'Password'. A 'Submit' button is located at the bottom of the login section.



Below are the validations that are done when user tries to give wrong details :

This occurs when the user does not meet the conditions like length .



The screenshot shows the same login page as above, but with validation errors. The 'UserName' field contains the letter 'w' and has a red error message below it: 'Name of the user must be in between 4 to 30 characters'. The 'Password' field contains 'ww' and has a red error message below it: 'Password should be in between 8-10 letters'. The 'Submit' button is still visible at the bottom.

This occurs when user enters the wrong details



Welcome To Online Shopping Site



LoginDetails

UserName

UserName,Password are invalid,Please try again

Password

This will takes the details when user gives correctly.



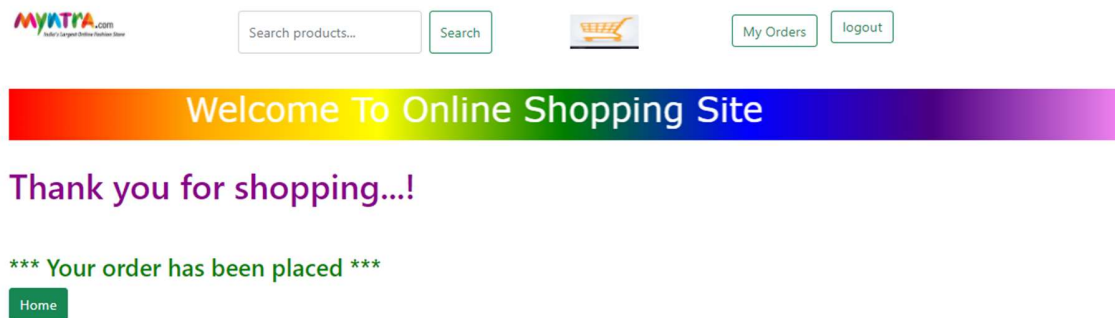
Welcome To Online Shopping Site

LoginDetails

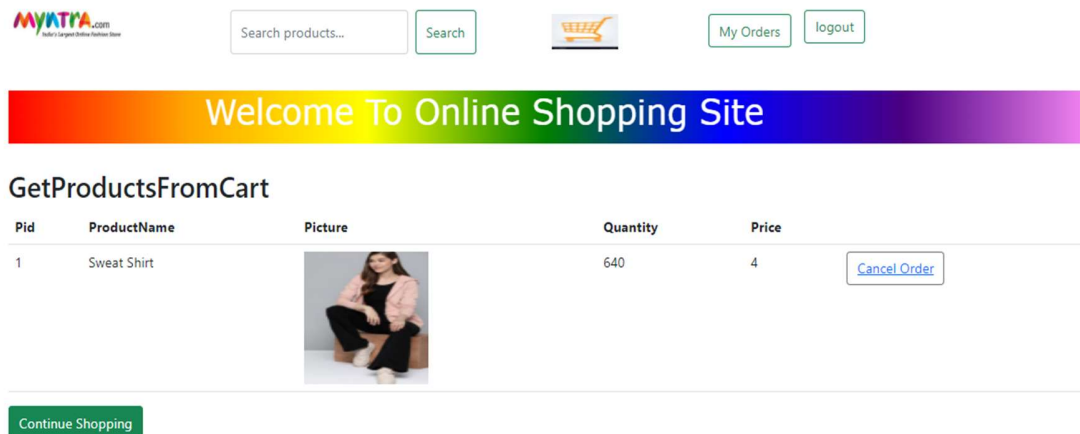
UserName

Password

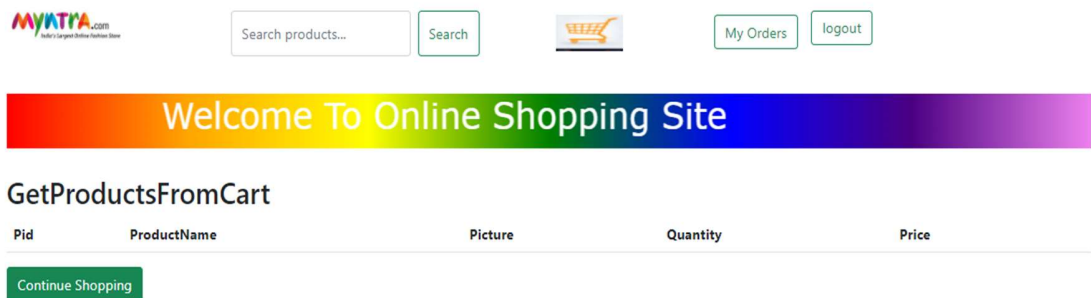
- 9) This page occurs after checking the validations. This will place the order only when the validations are correctly done.



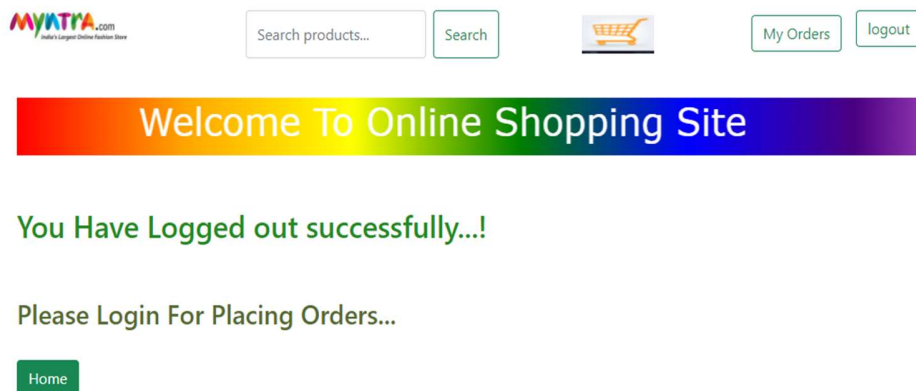
- 10) Here the user can go to “Home” page or he can check his orders by clicking on “My Orders” button. Below is the page when the user clicks on “My Orders” button.



- 11) When the user wants to cancel the order, he can simply click on the “Cancel Order” button. It will be removed from the my orders as well as the database.



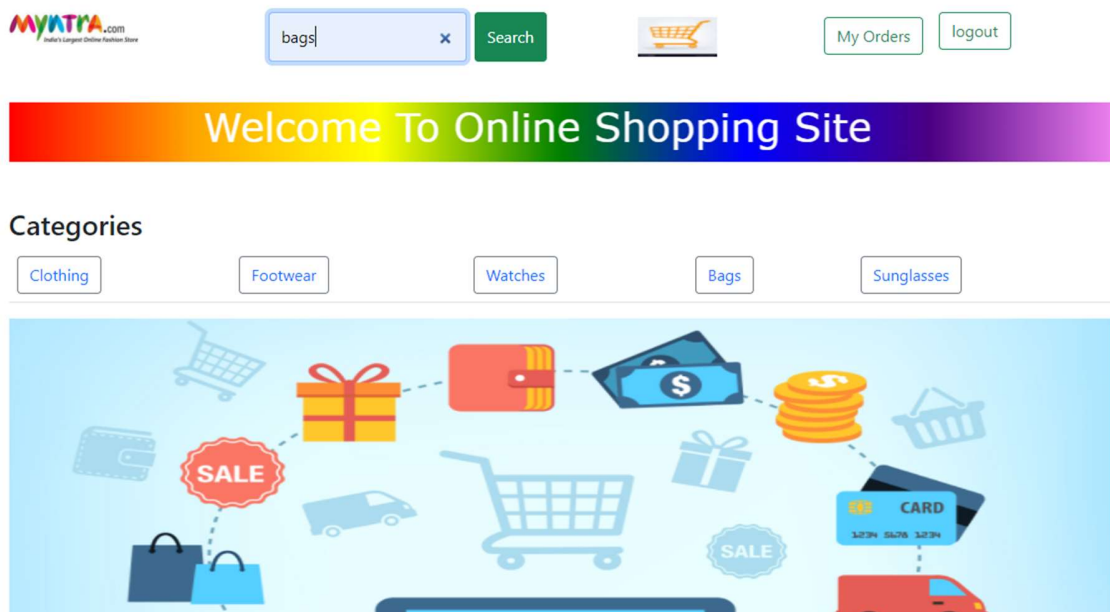
- 12) This Page occurs when user clicked on “LogOut” button.And “Home” button will redirects to “Home Page”.



13)After “LogOut” this page will be displayed.



Below is the sample output that was done when products was searched using product name.



Products related to search



Search products...

Search



My Orders

logout

Welcome To Online Shopping Site

List of Products based on Search



Luggage Bags  
11808

Product Details

Welcome To Online Shopping Site

Product Details

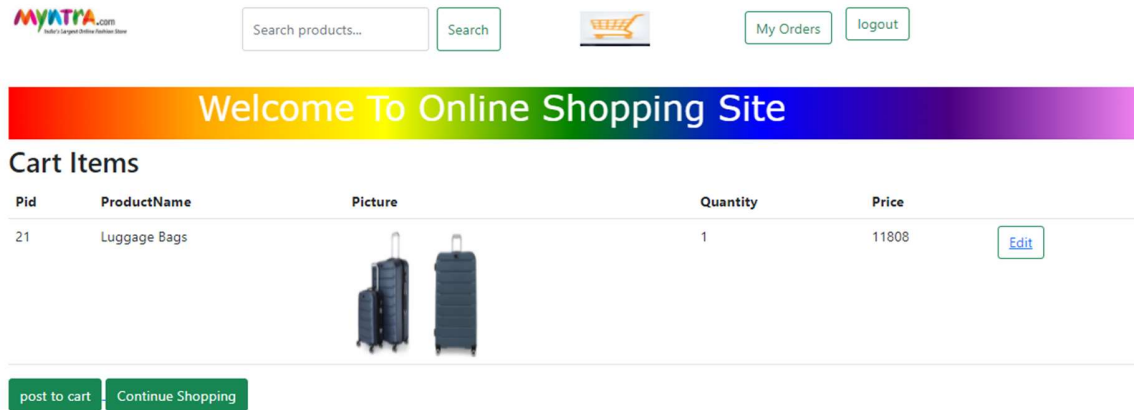
Picture



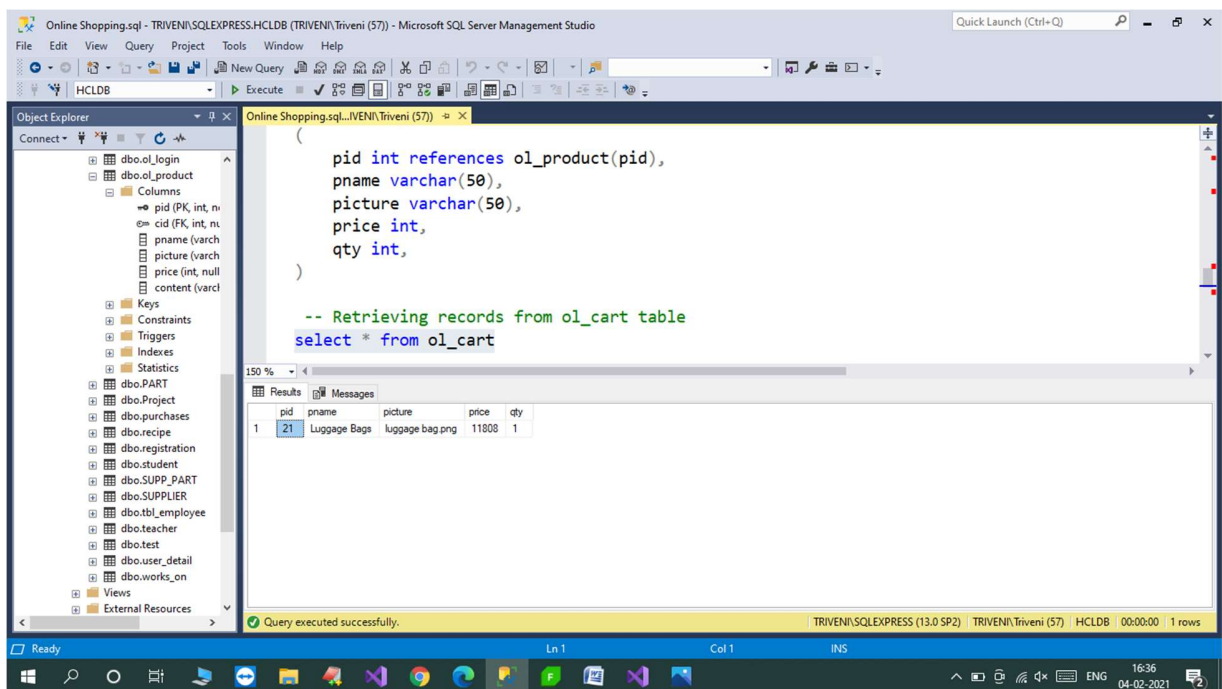
Add To Cart

**ProductName**  
Luggage Bags  
**Price**  
11808  
**Content**  
Brand : IT Luggage  
Size : Pack  
Color : Blue



## Adding product to cart



Here, after posting it is saved to database




## Posting to cart for order summary



Welcome To Online Shopping Site



PostToCart

Pid	ProductName	Picture	Quantity	Price
21	Luggage Bags		1	11808

Total Amount : Rs. 11808

Buy Now

## Buying or placing the order



Welcome To Online Shopping Site

LoginDetails

UserName



Triv

Password

Triv5678


Create

## My Orders page



Welcome To Online Shopping Site

GetProductsFromCart

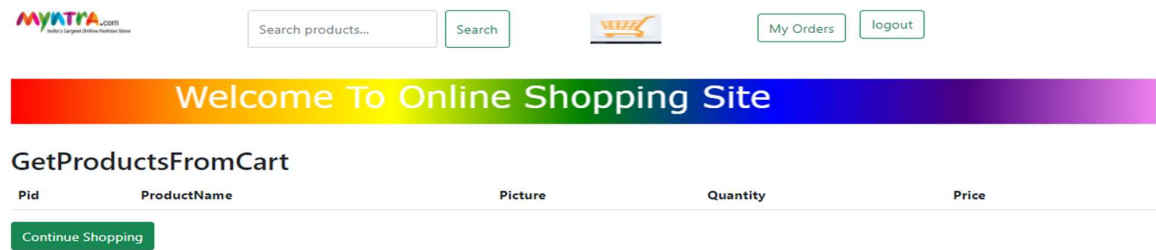
Pid	ProductName	Picture	Quantity	Price
21	Luggage Bags		11808	1

CancelOrder

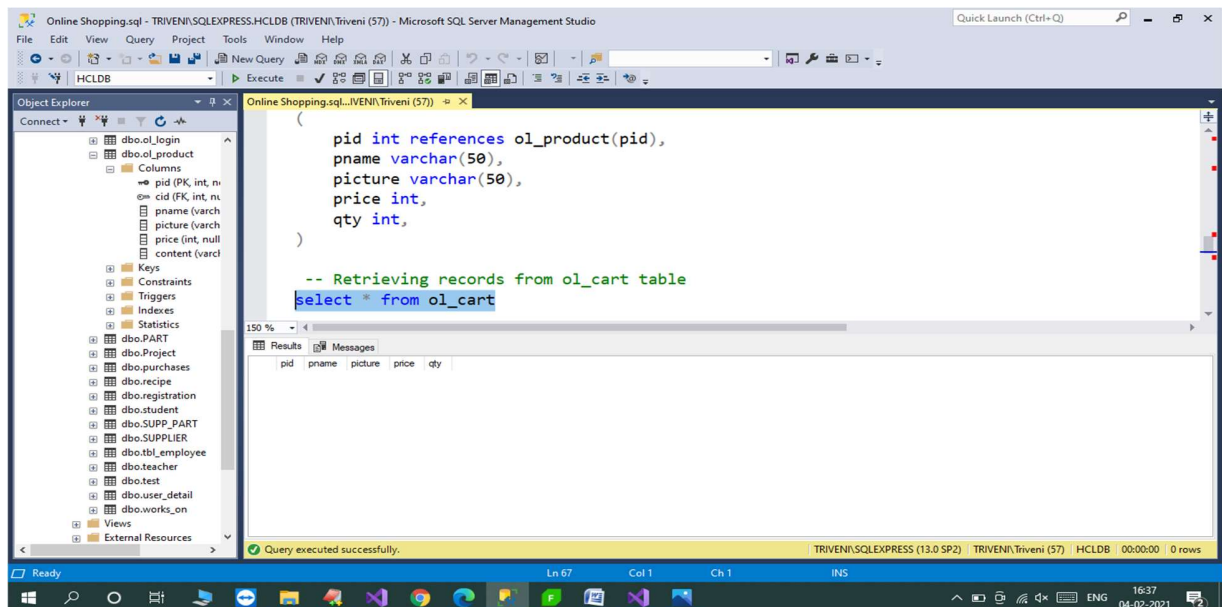
Continue Shopping



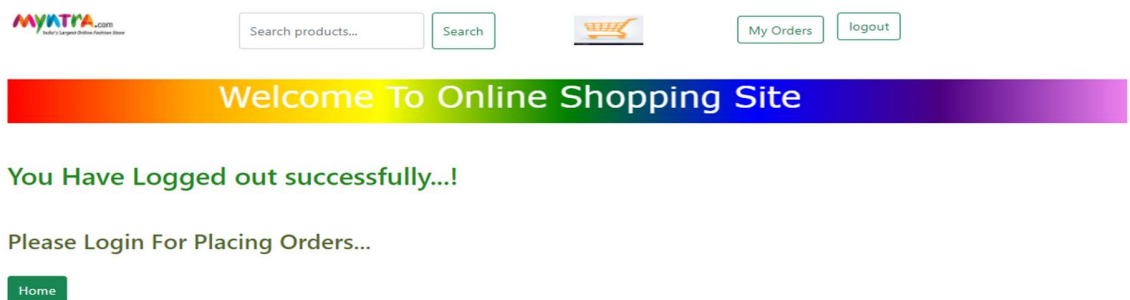
## Cancelling the Order



## Checking the database(Here item was removed)



## After "LogOut"



After clicking on “Home” button



Welcome To Online Shopping Site

Categories

