

Higher Nationals in Computing

Unit 10: Website Design and Development

ASSIGNMENT 2

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Assignment due: 5/DEC/2022
/2022

Assignment submitted: 12/DEC

ASSIGNMENT 2 FRONT SHEET

Qualification	BTEC Level 5 HND Diploma in Computing		
Unit number and title	10: Website Design & Development		
Submission date	12 DEC 2022	Date Received 1st submission	
Re-submission Date		Date Received 2nd submission	
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Student declaration I certify that the assignment submission is entirely my own work and I fully understand the consequences of plagiarism. I understand that making a false declaration is a form of malpractice.			
		Student's signature	

Grading grid

P5	P6	P7	M4	M5	D2	D3

☐ **Summative Feedback:**

☐ **Resubmission Feedback:**

Grade:

Assessor Signature:

Date:

Signature & Date:

Assignment Brief 2 (RQF)

Higher National Certificate/Diploma in Computing

Student Name/ID Number:	
Unit Number and Title:	Unit 10: Website Design & Development
Academic Year:	2021 – 2022
Unit Assessor:	Phan Minh Tam
Assignment Title:	Website Design and Implementation
Issue Date:	21 March 2022
Submission Date:	
Internal Verifier Name:	
Date:	

Submission Format:
<p><i>Format:</i></p> <p>A report document including below sections</p> <p>Section 1: A review of appreciate web design principles, standards and guidelines.</p> <p>Section 2: Design document for online shopping website.</p> <p>Section 3: Implementation of website design.</p> <p>Section 4: Test plan and test evaluation.</p> <p>A compressed file that encapsulates all source code and particular necessary resources including files of images, style sheets, java script and other files to support to install multipage website such as sql script and installation guide.</p> <p>Students are compulsory to submit the assignment in due date and in a way requested by the Tutor.</p> <p>The form of submission will be a soft copy posted on http://cms.greenwich.edu.vn/.</p> <p>Remember to convert the word file into PDF file before the submission on CMS.</p> <p>The individual Assignment <i>must</i> be your own work, and not copied by or from another student.</p> <p>If you use ideas, quotes or data (such as diagrams) from books, journals or other sources, you must reference your sources, using the Harvard style.</p>

Make sure that you understand and follow the guidelines to avoid plagiarism. Failure to comply this requirement will result in a failed assignment.

Outcomes:

Utilise website technologies, tools and techniques with good design principles to create a multipage website.

LO4 Create and use a Test Plan to review the performance and design of a multipage website.

Assignment Brief and Guidance:

Assignment scenario

You currently work for a software training company that produces courses and topic presentations to established companies and, importantly, to new start-ups. MWS wishes to pursue a bespoke web-based e-commerce solution. MWS were impressed with your presentations and wishes to continue with the design and development of an e-commerce website.

A sister company develops web solutions and you have been tasked with taking the lead on the MWS solution you outlined previously.

You are now required to design and create an interactive website with the emphasis being on the production of a set of simple dynamic web pages, which embody good design principles. The site will be themed around a template which would be most appropriate to MWS, with placeholders for text and content. Images and icons will be used, to give MWS a feel for the proposed website design. You will also include a membership area, where users can register to have access to restricted areas.

You will base on *MWS-CaseStudy.docx* for more information.

Learning Outcomes and Assessment Criteria (Assignment 2):			
Learning Outcome	Pass	Merit	Distinction
LO3	<p>P5 Create a design document for a branded, multipage website supported with medium fidelity wireframes and a full set of client and user requirements.</p> <p>P6 Use your design document with appropriate principles, standards and guidelines to produce a branded, multipage website supported with realistic content.</p>	M4 Compare and contrast the multipage website created to the design document.	D2 Critically evaluate the design and development process against your design document and analyse any technical challenges.
LO4	P7 Create a suitable Test Plan identifying key performance area and use it to review the functionality and performance of your website. User Experience (UX) and User Interface (UI).	M5 Evaluate the Quality Assurance (QA) process and review how it was implemented during your design and development stages.	D3 Critically evaluate the results of your Test Plan and include a review of the overall success of your multipage website; use this evaluation to explain any areas of success and provide justified recommendations for areas that require improvement.

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ASSIGNMENT 2 ANSWERS

P5 Design Plan

1. Users' Requirements

1.1. Functional requirements

Customer roles:

- Log in and register with store account like Facebook, google, etc.
- Customer can search engine information such as price, product details, etc.
- Customer can give review and rate about the services and quality they have used.
- Customer can view and buy some promotional accessories that come with the product.
- Customer can add and buy products to cart.

Admin roles:

- ❖ The administrator account can do things like add product, delete product, update product.
- ❖ Web Stats and the manager's download account can do things like update more products.
- ❖ The administrator account can do things like add producer, delete producer, update producer.
- ❖ The administrator account can register , login, logout, edit information.
- ❖ The administrator account can do things like view customer information, delete customer.

Non-Functional requirements:

- ❖ Speed, capacity and reliability: Any interaction between the user and system should not speed more than 2 second
- ❖ The system downloads new status parameters within 5 minutes of a change.
- ❖ The system should be available for using 24 hours per day, 365 days per year.
- ❖ System can run on all device as iPhone, iPad, smart watch, ...

2. Use case diagram

2.1. User

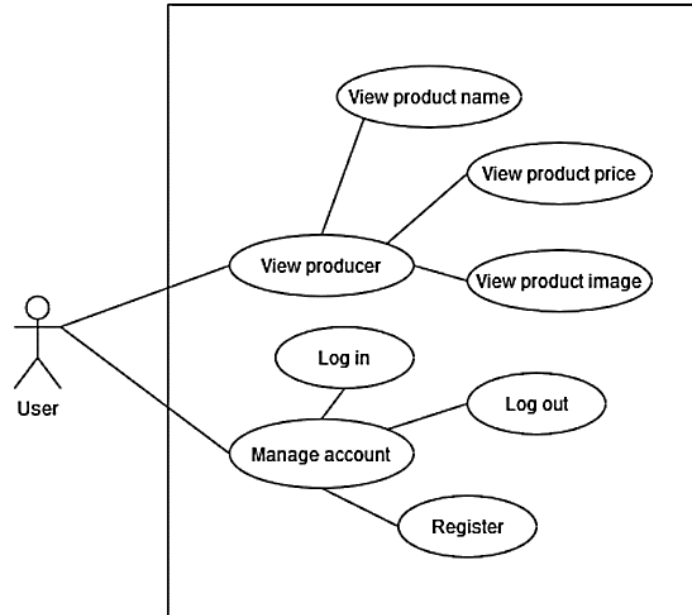


Figure 1: User

2.1. Admin

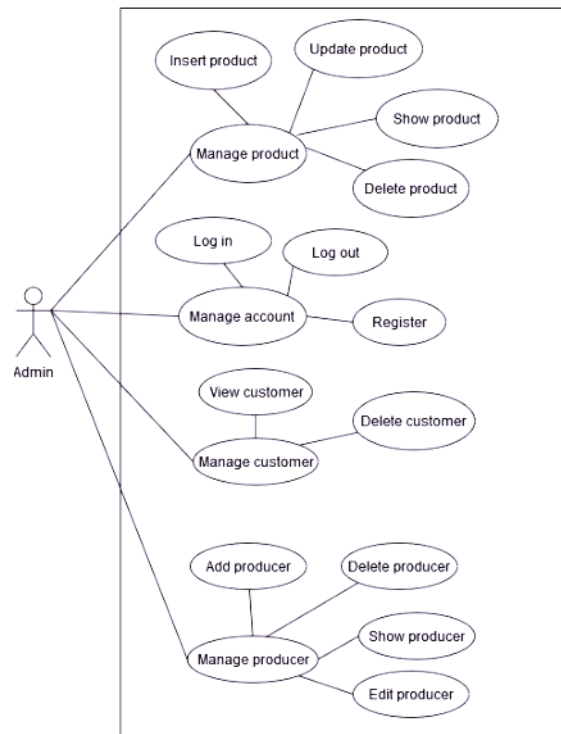


Figure 2: Admin

3. Design Database Diagram

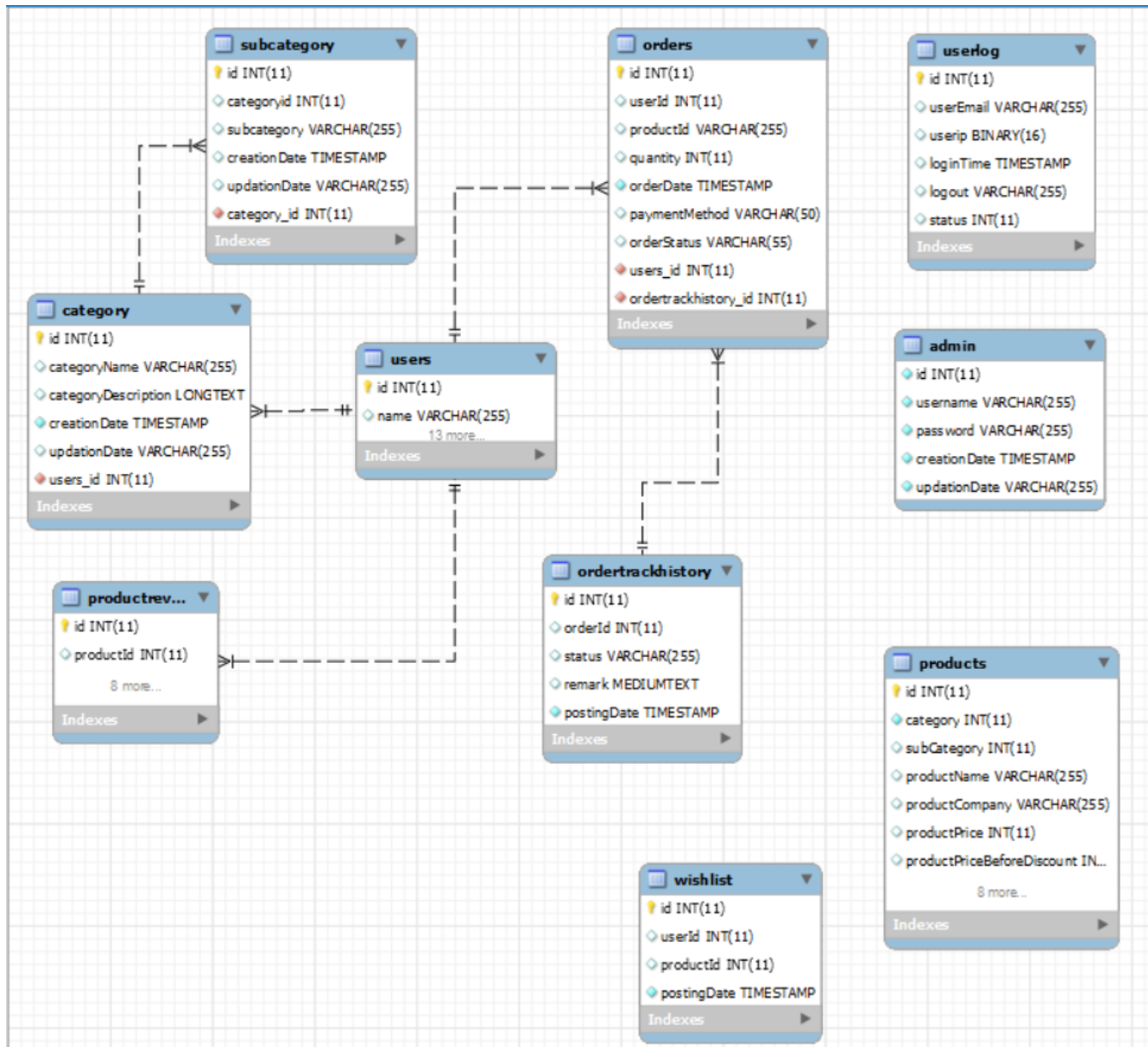


Figure 3: ERD Diagram

3.1 Data dictionary

\

admin

Column	Type	Null	Default
id (Primary)	int(11)	No	
username	varchar(255)	No	
password	varchar(255)	No	
creationDate	timestamp	No	current_timestamp()
updatetime	varchar(255)	No	

category

Column	Type	Null	Default
id (Primary)	int(11)	No	
categoryName	varchar(255)	Yes	NULL
categoryDescription	longtext	Yes	NULL
creationDate	timestamp	No	current_timestamp()
updatetime	varchar(255)	Yes	NULL

orders

Column	Type	Null	Default
id (Primary)	int(11)	No	
userId	int(11)	Yes	NULL
productId	varchar(255)	Yes	NULL
quantity	int(11)	Yes	NULL
orderDate	timestamp	No	current_timestamp()
paymentMethod	varchar(50)	Yes	NULL
orderStatus	varchar(55)	Yes	NULL

ordertrackhistory

Column	Type	Null	Default
id (Primary)	int(11)	No	
orderId	int(11)	Yes	NULL
status	varchar(255)	Yes	NULL
remark	mediumtext	Yes	NULL
postingDate	timestamp	No	current_timestamp()

productreviews

Column	Type	Null	Default
id (Primary)	int(11)	No	
productId	int(11)	Yes	NULL
quality	int(11)	Yes	NULL
price	int(11)	Yes	NULL
value	int(11)	Yes	NULL
name	varchar(255)	Yes	NULL
summary	varchar(255)	Yes	NULL
review	longtext	Yes	NULL
reviewDate	timestamp	No	current_timestamp()

products

Column	Type	Null	Default
id (Primary)	int(11)	No	
category	int(11)	No	
subCategory	int(11)	Yes	NULL
productName	varchar(255)	Yes	NULL
productCompany	varchar(255)	Yes	NULL
productPrice	int(11)	Yes	NULL
productPriceBeforeDiscount	int(11)	Yes	NULL
productDescription	longtext	Yes	NULL
productImage1	varchar(255)	Yes	NULL
productImage2	varchar(255)	Yes	NULL
productImage3	varchar(255)	Yes	NULL
shippingCharge	int(11)	Yes	NULL
productAvailability	varchar(255)	Yes	NULL
postingDate	timestamp	Yes	current_timestamp()
updatationDate	varchar(255)	Yes	NULL

subcategory

Column	Type	Null	Default
id (Primary)	int(11)	No	
categoryid	int(11)	Yes	NULL
subcategory	varchar(255)	Yes	NULL
creationDate	timestamp	Yes	current_timestamp()
updatationDate	varchar(255)	Yes	NULL

userlog

Column	Type	Null	Default
id (Primary)	int(11)	No	
userEmail	varchar(255)	Yes	NULL
userip	binary(16)	Yes	NULL
loginTime	timestamp	Yes	current_timestamp()
logout	varchar(255)	Yes	NULL
status	int(11)	Yes	NULL

users

Column	Type	Null	Default
id (Primary)	int(11)	No	
name	varchar(255)	Yes	NULL
email	varchar(255)	Yes	NULL
contactno	bigint(11)	Yes	NULL
password	varchar(255)	Yes	NULL
shippingAddress	longtext	Yes	NULL
shippingState	varchar(255)	Yes	NULL
shippingCity	varchar(255)	Yes	NULL
shippingPincode	int(11)	Yes	NULL
billingAddress	longtext	Yes	NULL
billingState	varchar(255)	Yes	NULL
billingCity	varchar(255)	Yes	NULL
billingPincode	int(11)	Yes	NULL
regDate	timestamp	No	current_timestamp()
updataDate	varchar(255)	Yes	NULL

wishlist

Column	Type	Null	Default
id (Primary)	int(11)	No	
userId	int(11)	Yes	NULL
productId	int(11)	Yes	NULL
postingDate	timestamp	No	current_timestamp()

4 Design Website Wireframe

4.1 Home page

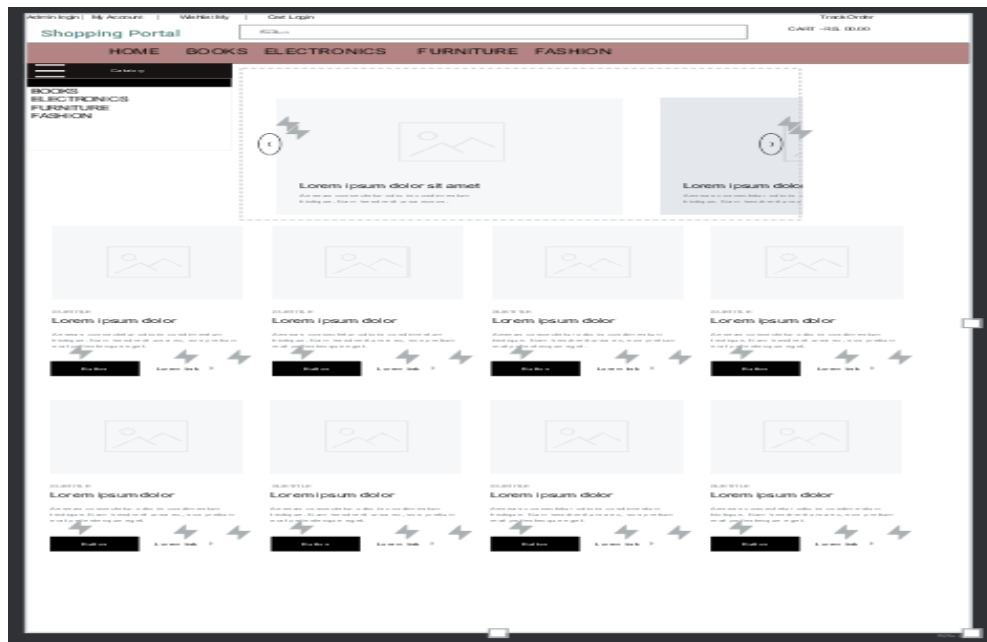


Figure 4: Home page wireframe

4.2 Login and Register page

Figure 5: Login and Resgister wireframe

4.3 Login Admin page

Figure 6: Edit Login Admin page

4.2 Edit Product page

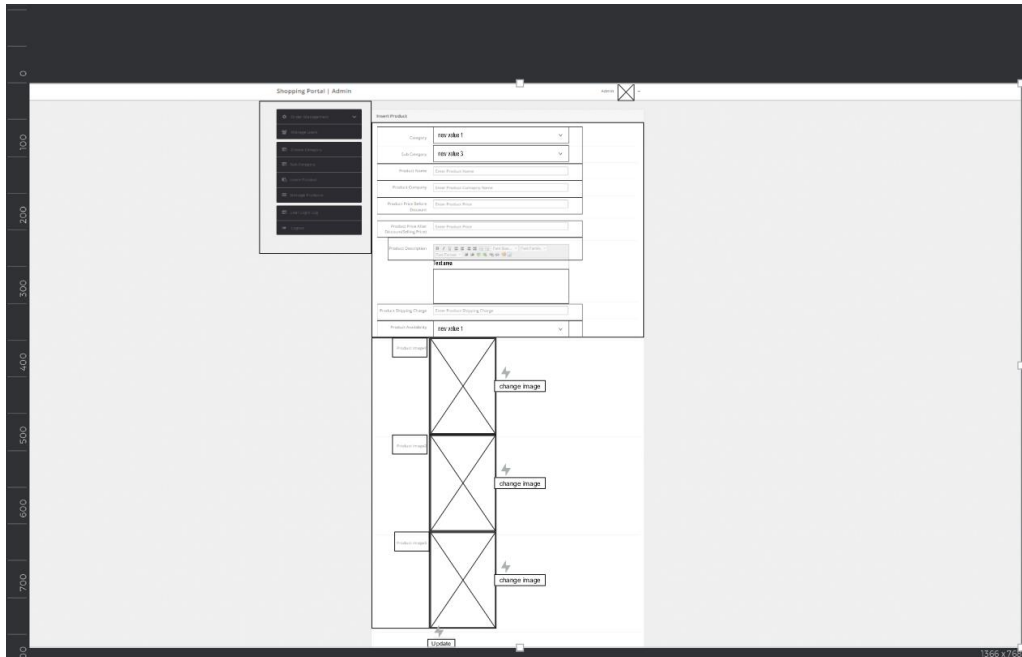


Figure 7: Edit Product page

5. Site map

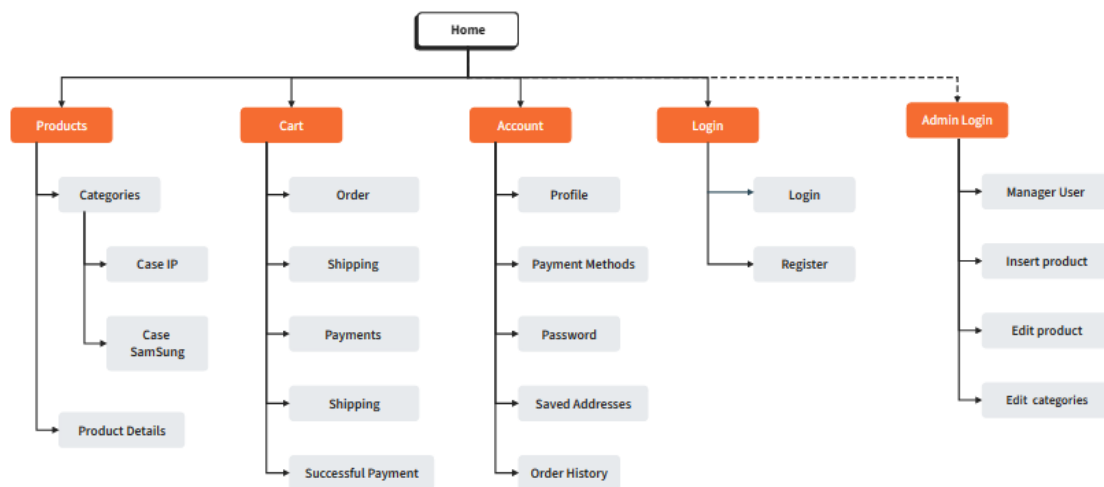


Figure 8: Site Map Shopping portal

P6 Use your design document with appropriate principles, standards and guidelines to produce a branded, multipage website supported with realistic content.

1. Front-end and Back-end technologies applied in the website

1.1. Front-end technologies

HTML



Figure 9: HTML

CSS



Figure 10: CSS

JavaScript



Figure 11: JavaScript

Bootstrap



Figure 12: Bootstrap 5

jQuery



Figure 13:jQuery

Google Fonts



Figure 14: Google Fonts

1.2 Back-end technologies *MySQL Database*



Figure 15: MySQL Database

PHP Language Programming



Figure 16: PHP Language Programming

Apache Web Server

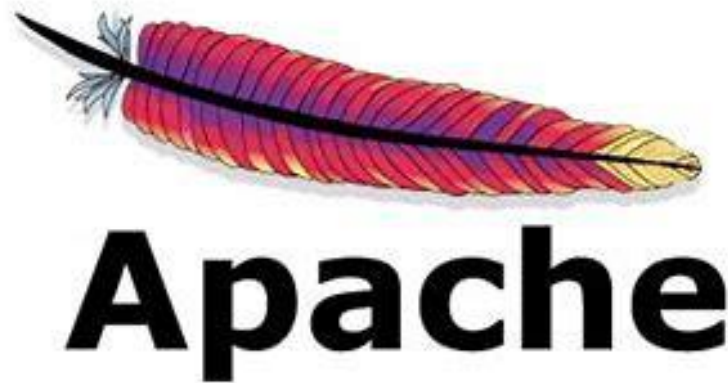
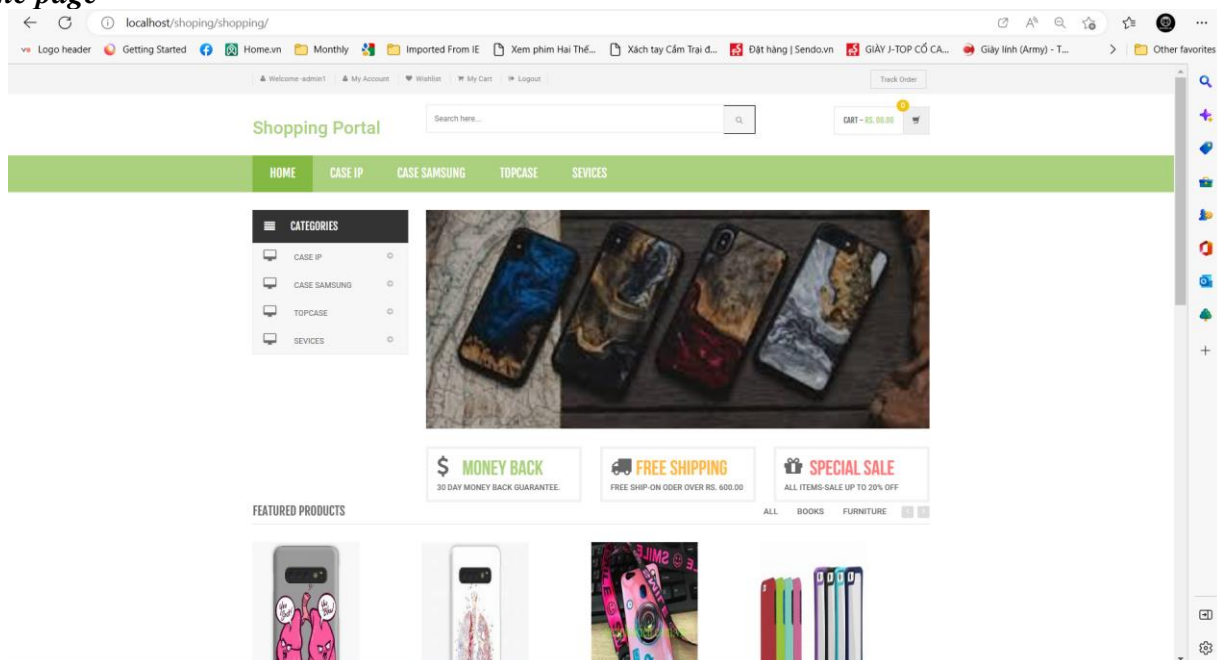


Figure 17: Apache Web Server

2. Website UI

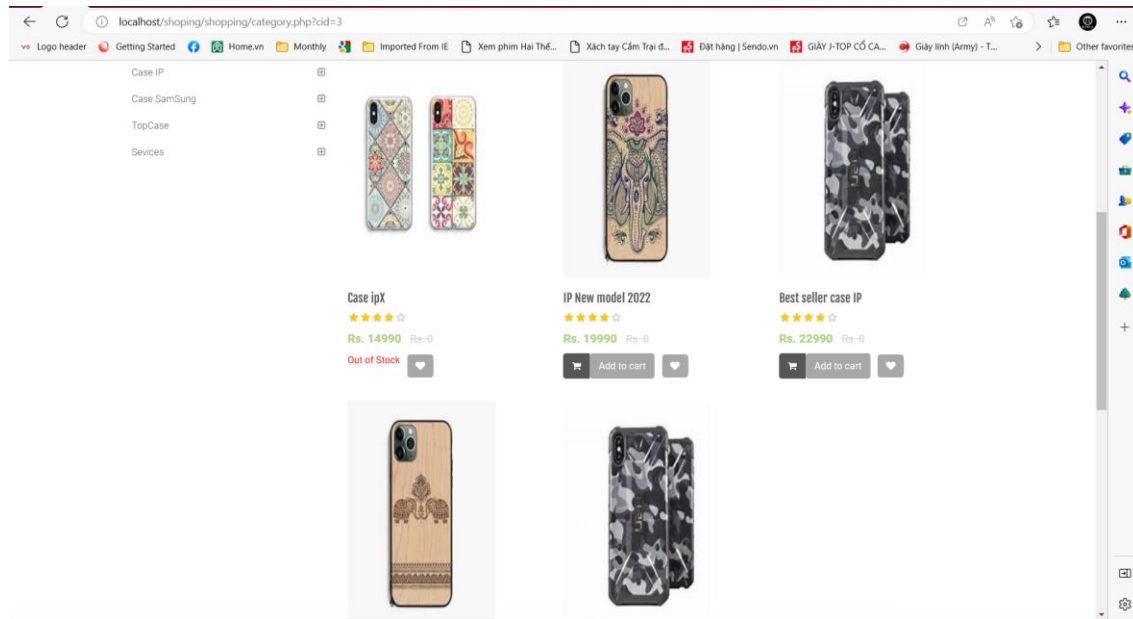
2.1. Customer pages

Home page



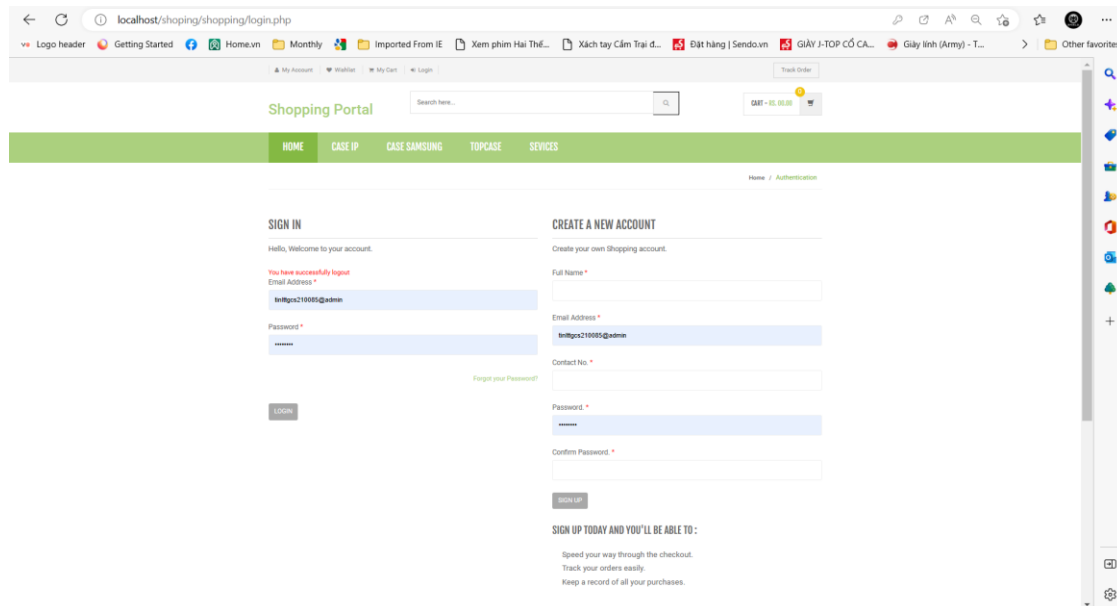
This is the wireframe of the category details page. As the same with homepage, top is the navigation bar. Then a series of detailed information about the chosen product is displayed on the screen with a quantity option and add to cart button right under it.

Product page



On this page will display products and can filter them according to they needs.

Login and Register page



Help you log in to the shopping cart so that you can store your favorite products and register an account for your customers (*a mail account can only be registered once*).

My Account page

Contains information of registered customers.

Change Password page

Customers can change their login password here.

Cart page

Shopping Portal

HOME CASE ID CASE SAMSUNG TOPCASE SERVICES

Home / Shopping Cart

Image	Product Name	Quantity	Price Per unit	Shipping Charge	Grandtotal
	CASE SAMSUNG	1	RS 13999.00	RS 1200.00	141100.00
	CASE S1 NEW MODEL	1	RS 10999.00	RS 0.00	10999.00

CONTINUE SHOPPING UPDATE SHOPPING CART

SHIPPING ADDRESS

Billing Address*

HoChiMinh City

Billing Street*

HoChiMinh City

Billing City *

District

Billing Province *

75000

UPDATE

BILLING ADDRESS

Billing Address*

HoChiMinh City

Billing Street *

HoChiMinh City

Billing City *

HoChiMinh City

Billing Province *

75000

UPDATE

TOTAL

GRAND

152000.00

PROCEED TO CHECKOUT

Store the products the customer has selected in the cart and fill in the information to proceed with the payment (*If you already have your Payment Information, you just need to place an order without having to re-enter your Payment information*).

Contact Us

Shopping Portal

Because in our spare time, when we have the power to choose ourselves and when the right to choose ourselves is open to us.



OPENING TIME

Monday-Friday:	08.00 To 18.00
Saturday:	09.00 To 20.00
Sunday:	10.00 To 20.00

INFORMATION

- VietNam, HoChiMinh City
- (+84) 0779077819
(+84) 0903312169
- Tinittgcs210085@gmail.com

Our contact information for customers who can place an order or report a site problem to us.

2.2 Admin page

Admin login

Shopping Portal | Admin

Back to Portal

Sign In

Invalid username or password

tinttgc210085

Login

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Login to the administrator's account.

Admin/ Manage Users

Shopping Portal | Admin

Admin

Manage Users

Show 10 entries Search:

#	Name	Email	Contact no	Shipping Address/City/State/Pincode	Billing Address/City/State/Pincode	Reg. Date
1	admin1	tinttgc210085@admin	7790779818	HoChiMinh City,HoChiMinh City,HoChiMinh City-110001	HoChiMinh City,Delhi,HoChiMinh City-70000	2022-12-12 11:10:26
2	Admin2	lethaitrungtin@admin	8285703355	,-0	,-0	2017-03-16 00:21:22
3	hg	hgfhgf@mass.com	1121312312	,-0	,-0	2018-04-29 16:30:32

Showing 1 to 3 of 3 entries

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Manage user accounts.

Admin/ Insert Product

Shopping Portal | Admin

Admin

- Order Management
- Manage Users
- Create Category
- Sub Category
- Insert Product
- Manage Products
- User Login Log
- Logout

Insert Product

Category:

Sub Category:

Product Name:

Product Company:

Product Price Before Discount:

Product Price After Discount (Setting Price):

Product Description:

Product Shipping Charge:

Product Availability:

Product Image1: No file chosen

Product Image2: No file chosen

Product Image3: No file chosen

Admin can add new product entry page.

Admin/ Manager Product

localhost/shoping/shopping/admin/manage-products.php

Shopping Portal | Admin

Admin

- Order Management
- Manage Users
- Create Category
- Sub Category
- Insert Product
- Manage Products
- User Login Log
- Logout

Manage Products

Show: 10 entries Search:

#	Product Name	Category	Subcategory	Company Name	Product Creation Date	Action
1	Case IPk	Case IP	case IP new 2022	OEM	2017-02-04 11:11:54	Edit Delete
2	IP New model 2022	Case IP	case IP new 2022	OEM	2017-02-04 11:26:17	Edit Delete
3	Best seller case IP	Case IP	ip	OEM	2017-02-04 11:32:15	Edit Delete
4	case ip X to 14pro max (wood)	Case IP	ip	ABC	2017-02-04 11:35:13	Edit Delete
5	Case Samsung mobile	Case IP	ip	OEM	2022-12-16 09:16:54	Edit Delete
6	case Samsung	Case Samsung	Television	Micromax test	2017-01-30 23:54:35	Edit Delete
7	Case Mode SS v8	Case Samsung	Mobiles	SS	2017-01-30 23:59:00	Edit Delete
8	Case SS new model	Case Samsung	Mobiles	Redmi	2017-02-04 11:03:15	Edit Delete
9	case Samsung	Case Samsung	Mobiles	ss	2017-02-04 11:04:43	Edit Delete
10	Case Samsung mobile	Case Samsung	Mobiles	OEM	2022-12-16 09:15:38	Edit Delete

Showing 1 to 10 of 10 entries


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Product (Add-Update-Delete).

The product interface allow admin to input data including ID, images, name, price, summary, description, and category id. All make up a complete product for the website. Also, display all product information on the website.

Admin/ Creat Catelgies

Shopping Portal | Admin

Admin 

- Order Management
- Manage users
- Create Category
- Sub Category
- Insert Product
- Manage Products
- User Login Log
- Logout

Category

Category Name:

Description:

Create

Manage Categories

Show: 10 entries Search:

#	Category	Description	Creation date	Last Updated	Action
1	Case IP	Test anuj	2017-01-25 02:17:37	30-01-2017 12:22:24 AM	Edit Delete
2	Case Samsung	Electronic Products	2017-01-25 02:19:32		Edit Delete
3	TopCase	test	2017-01-25 02:19:54	16-12-2022 02:15:21 AM	Edit Delete
4	Sevices	Fashion	2017-02-21 02:18:52	16-12-2022 02:15:41 AM	Edit Delete


Showing 1 to 4 of 4 entries

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Admin can edit, add or remove categories.

Admin/ Order Manager

Shopping Portal | Admin

Admin 

- Order Management
- Today's Orders
- Pending Orders
- Delivered Orders
- Manage users
- Create Category
- Sub Category
- Insert Product
- Manage Products
- User Login Log
- Logout

Pending Orders

Show: 10 entries Search:

#	Name	Email /Contact no	Shipping Address	Product	Qty	Amount	Order Date	Action
1	admin1	tinitgcs210085@admin/7790779818	HoChiMinh City,HoChiMinh City,110001	Case SS new model	1	10999	2017-03-08 02:32:57	Edit
2	admin1	tinitgcs210085@admin/7790779818	HoChiMinh City,HoChiMinh City,110001	Case SS new model	1	10999	2017-03-09 02:21:38	Edit
3	admin1	tinitgcs210085@admin/7790779818	HoChiMinh City,HoChiMinh City,110001	case Samsung	1	10044	2017-03-09 02:21:38	Edit

Showing 1 to 3 of 3 entries

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Admin can manage their orders.

3. Include some screenshots related to error handling

3.1. Error not catching delete event

Error: The error of not catching the delete event is that when we press the delete button, the website does not receive the data transmitted and cannot be deleted.

```

5 //var_dump($_GET["delete"]);die;
6 if(isset($_GET["delete"])){
7     $id = $_GET["delete"];
8     unset($_SESSION["cart"][$id]);
9     // echo $_GET["delete"];
10 }

```

Fix bug: We will check the database to see if the column names are accurate or whether we've written the code in the wrong structure since we don't understand the website button that requires the delete event to delete something. Alternatively, you can use Google to search for remove php term and see how others have solved the problem. My answer is to verify if the code has been written correctly, or if there is an id or class to catch the event, and then write the correct code using a fake code.

```

elseif(isset($_GET["decrease"])){
    $id = $_GET["decrease"];
    $_SESSION["cart"][$id] = $_SESSION["cart"][$id] - 1;
}
elseif(isset($_GET["increase"])){
    $id = $_GET["increase"];
    $_SESSION["cart"][$id] = $_SESSION["cart"][$id] + 1;
}
else{
    $product_id = $_POST["product_id"];
    $total_cart = $_POST["total_cart"];

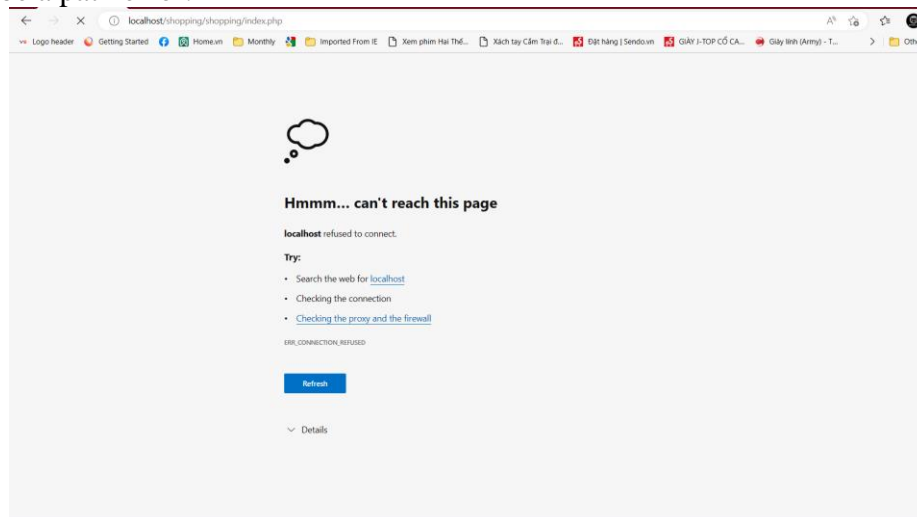
    if($_POST["total_cart"] > 10){
        $total_cart = 10;
    }
    elseif($_POST["total_cart"] <= 0){
        $total_cart = 1;
    }
    else {
        $total_cart = $_POST["total_cart"];
    }

    $_SESSION["cart"][$product_id] = $total_cart;
}

```

3.2. Wrong path error

Error: because when we use pre-existing pages, usually they use some other path when we code, they also have the path due to the port of the virtual server when we intentionally use the path written by the page there will be a path error.



Fix bug: The easiest fix is that we type in the search bar the address of our website and copy the link into it. Or if you don't want your code to be on the wrong port when you go to another machine, then write a function so that when you go to other machines, you don't get the path

```
function baseUrl(){
    $protocol = "http";
    if(isset($_SERVER['HTTPS'])){
        $protocol = "https";
    }
    return $protocol."://".$_SERVER['SERVER_NAME']."/eproject/";
}
```

4. Some source code.

4.1. Login and Register process

<?php

```

session_start();
error_reporting(0);
include('includes/config.php');
// Code user Registration
if(isset($_POST['submit']))
{
$name=$_POST['fullname'];
$email=$_POST['emailid'];
$contactno=$_POST['contactno'];
$password=md5($_POST['password']);
$query=mysqli_query($con,"insert into users(name,email,contactno,password)
values('$name','$email','$contactno','$password')");
if($query)
{
    echo "<script>alert('You are successfully register');</script>";
}
else{
echo "<script>alert('Not register something went wrong');</script>";
}
}
// Code for User login
if(isset($_POST['login']))
{
    $email=$_POST['email'];
    $password=md5($_POST['password']);
    $query=mysqli_query($con,"SELECT * FROM users WHERE email='$email' and password='$password'");
    $num=mysqli_fetch_array($query);
    if($num>0)
    {
        $extra="my-cart.php";
        $_SESSION['login']=$_POST['email'];
        $_SESSION['id']=$num['id'];
        $_SESSION['username']=$num['name'];
        $uip=$_SERVER['REMOTE_ADDR'];
        $status=1;
        $log=mysqli_query($con,"insert into userlog(userEmail,userip,status)
values('".$_SESSION['login']."','$uip','$status')");
        $host=$_SERVER['HTTP_HOST'];
        $uri=rtrim(dirname($_SERVER['PHP_SELF']),'/\');
        header("location:http://$host$uri/$extra");
        exit();
    }
    else
    {
        $extra="login.php";
        $email=$_POST['email'];
    }
}

```

```

$uip=$_SERVER['REMOTE_ADDR'];
$status=0;
$log=mysqli_query($con,"insert into userlog(userEmail,userip,status) values('$email','$uip','$status')");
$host = $_SERVER['HTTP_HOST'];
$uri = rtrim(dirname($_SERVER['PHP_SELF']),'/\');
header("location:http://$host$uri/$extra");
$_SESSION['errmsg']="Invalid email id or Password";
exit();
}
}

?>
    
```

4.2 Logout process

```

<?php
session_start();
include("includes/config.php");
$_SESSION['login']=="";
date_default_timezone_set('Asia/Kolkata');
$date=date('d-m-Y h:i:s A', time ( ) );
mysqli_query($con,"UPDATE userlog SET logout = '$date' WHERE userEmail = '".$_SESSION['login']."' ORDER BY id DESC LIMIT 1");
session_unset();
$_SESSION['errmsg']="You have successfully logout";
?>

<script language="javascript">
document.location="index.php";
</script>
    
```

4.3 My Account process

```

<?php
session_start();
error_reporting(0);
include('includes/config.php');
if(strlen($_SESSION['login'])==0)
    {
header('location:login.php');
}
else{
    if(isset($_POST['update']))
    {
        $name=$_POST['name'];
        $contactno=$_POST['contactno'];
    }
}
    
```



```

$query=mysqli_query($con,"update users set name='$name',contactno='$contactno' where
id='".$_SESSION['id']."'");
if($query)
{
echo "<script>alert('Your info has been updated');</script>";
}
}

date_default_timezone_set('Asia/Bangkok');// change according timezone
$currentTime = date( 'd-m-Y h:i:s A', time () );

if(isset($_POST['submit']))
{
$sql=mysqli_query($con,"SELECT password FROM users where password='".$_md5($_POST['cpass'])."' &&
id='".$_SESSION['id']."'");
$num=mysqli_fetch_array($sql);
if($num>0)
{
$con=mysqli_query($con,"update students set password='".$_md5($_POST['newpass'])."', updationDate='$currentTime'
where id='".$_SESSION['id']."'");
echo "<script>alert('Password Changed Successfully !!');</script>";
}
else
{
echo "<script>alert('Current Password not match !!');</script>";
}
}
?>

```

5. Github link

<https://github.com/Simonwill612/GCS21005A-Shoping>

P7. Create a suitable Test Plan identifying key performance area and use it to review the functionality and performance of your website. User Experience (UX) and User Interface (UI).

1. Test Plan

| No | Test case | Input data | Expected output | Actual put | Evaluation |
|----|----------------|---|-----------------|------------|------------|
| 1 | Test Link Logo | Shopping Portal Home Page | Open home | Success | Pass |

| | | | | | |
|---|---------------------|---|--|--|------|
| 2 | Test Link Home | Shopping Portal Home Page | Open home | Success | Pass |
| 3 | Add category | Name: Case IP | Added correspondingly | Success | Pass |
| 4 | Next page | From the shop page to the detail page | From the home page, we click on the shop page and it will redirect to the shop page we want | The page edirect hen I press from home page to shop age was uccessful and the path to the website is correct to the shop page. | Pass |
| 5 | Next page | From the shop page to the cart page | From the cart page, we click on the shop page and it will redirect to the detail page we want | The page redirect when I press from cart page to detail page was successful and the path to the website is correct to the detail page. | Pass |
| 6 | Next page | From the cart page to the checkout page | From the cart page, we click on the shop page and it will redirect to the checkout page we want | The page redirect when I press from cart page to checkout page was successful and the path to the website is correct to the checkout page. | Pass |
| 7 | View roduct details | Click the Product Image to view product details Case ipX in the Case IP category. | When we click on the Product Image to see the details of the Case ipX product in the Case IP category, we will be redirected to the detail page and see all product information. | In fact, when I press the Product Image on the Case ipX in the Case IP category, we will be redirected to the detail page and see all the product information. And the website's link is correct on the detail page and shows the product id in the address bar. | Pass |
| 8 | View roduct details | Click the Product Image to view product details Case Mode SS s9 in the Case SamSung category. | When we click on the Product Image to see the details of the Case Mode SS s9 product in the Case SamSung category, we will be redirected to the detail page and see all product information. | In fact, when I press the Product Image on the Case Mode SS s9 in the Case SamSung category, we will be redirected to the detail page and see all the product information. And the website's link is correct on the detail page | Pass |

| | | | | | |
|----|----------------------|---|--|---|------|
| | | | | and shows the product id in the address bar. | |
| 9 | View product details | Click the Product Image to view product details <i>case ip X to 14pro max (wood)</i> in the Case IP category. | When we click on the Product Image to see the details of the <i>case ip X to 14pro max (wood)</i> product in the ase IP category, we will be redirected to the detail page and see all product information | In fact, when I press the Product Image on the <i>case ip X to 14pro max (wood)</i> in the Case IP category, we will be redirected to the detail page and see all the product information. And the website's link is correct on the detail page and shows the product id in the address bar. | Pass |
| 10 | Login Admin page | From the address bar, enter link address ”
http://localhost/shopping/shopping/admin ” the link to go to the Admin Login page. | From the address bar, enter link address ”
http://localhost/shopping/shopping/admin ” the link to redirect to the admin page to login and go to the admin page | The result was successful. And I make login to the admin page. And the link pointed to the correct address of the admin login page | Pass |
| 11 | Add product | Add a product ‘
Category
<input type="text" value="Case IP"/>
Sub Category
<input type="text" value="ip"/>
Product Name
<input type="text" value="Best seller case II"/>
Product Company
<input type="text" value="OEM"/>
Product Price Before Discount
<input type="text" value="0"/>
Product Price 22990 and Image 1, Image 2, Image 3’ in category Case IP | Navigate to the create page to add phone cases from the Case IP category. | Redirected to create page to add phone cases under category Case IP . And on Headers have a Notification ‘ Well done! Product Inserted Successfully !! ’ | Pass |
| 12 | Add product | Add a product ‘
Category | Navigate to the create page to add phone cases from | Redirected to create page to add phone cases under | Pass |

| | | | | | |
|----|-------------|---|---|---|------|
| | | <div>Case SamSung ▼</div> <div>SubCategory</div> <div>ss ▼</div> <div>Product Name</div> <div>Case SamSung</div> <div>Product Company</div> <div>OEM</div> <div>Product Price Before Discount</div> <div>0</div> <div>Product Price7000 and Image 1,Image 2, Image 3' in category <i>Case SamSung</i></div> | the <i>Case SamSung</i> category. | category <i>Case SamSung</i> . And on Headers have a Notification ' Well done! Product Inserted Successfully !! ' | |
| 13 | Add product | <div>Add a product 'Category</div> <div>Case IP ▼</div> <div>Sub Category</div> <div>ip ▼</div> <div>Product Name</div> <div>IP New model 202</div> <div>Product Company</div> <div>OEM</div> <div>Product Price Before Discount</div> <div>0</div> <div>Product Price7000 and Image 1,Image 2, Image 3' in category <i>Case IP</i></div> | Navigate to the create page to add phone cases from the <i>Case IP</i> category. | Redirected to create page to add phone cases under category <i>Case IP</i> And on Headers have a Notification ' Well done! Product Inserted Successfully !! ' | Pass |
| 14 | Add product | <div>Add a product 'Category</div> <div>Case SamSung ▼</div> <div>SubCategory</div> <div>ss ▼</div> <div>Product Name</div> <div>Case SamSung</div> <div>Product Company</div> <div>OEM</div> | Navigate to the create page to add phone cases from the <i>Case SamSung</i> category. | Redirected to create page to add phone cases under category <i>Case SamSung</i> . And on Headers have a Notification ' Well done! Product Inserted Successfully !! ' | Pass |

| | | | | | |
|----|----------------|--|---|--|------|
| | | Product Price Before Discount
<input type="text" value="0"/>
Product Price 7000 and Image 1, Image 2, Image 3' in category Case SamSung | | | |
| 15 | Update Product | Add a product 'Category'
<div> <input type="text" value="Case IP"/> </div> Sub Category
<div> <input type="text" value="ip"/> </div> Product Name
<div> <input type="text" value="Top Best Seller c"/> </div> Product Company
<div> <input type="text" value="OEM"/> </div> Product Price Before Discount
<input type="text" value="0"/>
Product Price 22990 and Image 1, Image 2, Image 3' in category Case | When we press the edit button in Manager Product , we will update the Best seller case product to Top Best Seller case IP in the Case IP category. Redirect to the update page and on header show Headers have a Notification ' Well done! Product Inserted Successfully !! '. and puts the data on the product list page, it is successful. | Successfully updated the product in the Case IP category.. And before updating the product, Finally, on the Home page, the correct address of the update page and id of that product is indicated and you can add other information, change it. The product has been added to the list page. on header show Headers have a Notification ' Well done! Product Inserted Successfully !! '. and puts the data on the product list page, it is successful. | Pass |
| 16 | Update Product | Add a product 'Category'
<div> <input type="text" value="Case IP"/> </div> Sub Category
<div> <input type="text" value="ip"/> </div> Product Name
<div> <input type="text" value="Case IP Top Trend"/> </div> Product Company
<div> <input type="text" value="OEM"/> </div> Product Price Before Discount
<input type="text" value="0"/>
Product Price 22990 and Image 1, Image 2, Image 3' in category Case IP | When we press the edit button in Manager Product , we will update the Case IP new 2022 product to Case IP Top Trend 2022 in the Case IP category. Redirect to the update page and on header show Headers have a Notification ' Well done! Product Inserted Successfully !! '. and puts the data on the product list page, it is successful. | Successfully updated the product in the Case IP category.. And before updating the product, Finally, on the Home page, the correct address of the update page and id of that product is indicated and you can add other information, change it. The product has been added to the list page. on header show Headers have a Notification ' Well done! Product Inserted Successfully !! '. and puts the data on the product list page, it is successful. | Pass |

| | | | | | |
|----|-------------------------------------|---|--|--|------|
| 17 | Update Product | <p>Add a product ‘
Category
 <div>Case SamSung</div> SubCategory
 <div>ss</div> Product Name
 <div>Case Hot Trend S</div> Product Company
 <div>OEM</div> Product Price Before Discount
 <div>0</div> Product Price 7000 and Image 1, Image 2, Image 3’ in category <i>Case SamSung</i></p> | <p>When we press the edit button in <i>Manager Product</i>, we will update the <i>Case SamSung</i> product to <i>Case Hot Trend SamSung 2022</i> in the <i>Case SamSung</i> category.
Redirect to the update page and on header show Headers have a Notification ‘Well done! Product Inserted Successfully !!’. and puts the data on the product list page, it is successful.</p> | <p>Successfully updated the product in the <i>Case SamSung</i> category.. And before updating the product, Finally, on the Home page, the correct address of the update page and id of that product is indicated and you can add other information, change it. The product has been added to the list page. on header show Headers have a Notification ‘Well done! Product Inserted Successfully !!’. and puts the data on the product list page, it is successful.</p> | Pass |
| 18 | Test link category on the home page | Click on the Case IP category on the home page | When you click on the <i>Case IP category</i> , you will be redirected to the shop of <i>Case IP</i> page | I click on the <i>Case IP</i> category on the home, it automatically redirects to the shop page according to the <i>Case IP</i> product category about the phone <i>case IP</i> I want. | Pass |
| 19 | Test link category on the home page | Click on the Case SamSung category on the home page | When you click on the <i>Case SamSung</i> category, you will be redirected to the shop of <i>Case SamSung</i> page | I click on the <i>Case SamSung</i> category on the home, it automatically redirects to the shop page according to the <i>Case SamSung</i> product category about the phone case <i>SamSung</i> I want. | Pass |
| 20 | Delete product | Remove Case SS new model product from SamSung category | When we press the delete button, we will delete the <i>Case SS new model</i> product in the <i>SamSung</i> category. But before deleting the screen will show a message “ <i>localhost saying</i> ” | Successfully deleted product <i>Case SS new model</i> belonging to Case <i>SamSung</i> category. And before deleting the product, the screen will show a message “ <i>localhost saying (do you want to delete this product)</i> ”. | Pass |

| | | | | | |
|--|--|--|--|---|--|
| | | | <i>(do you want to delete this product)”</i> | Finally, on the holy site, the correct address of the delete page and the id of that product is indicated | |
|--|--|--|--|---|--|

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