

ASSIGNMENT 2 FRONT SHEET

Qualification	BTEC Level 5 HND Diploma in Computing		
Unit number and title	10: Website Design & Development		
Submission date	August 01, 2020	Date Received 1st submission	
Re-submission Date	August 08, 2020	Date Received 2nd submission	
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Student declaration <p>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.</p>			
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Grading grid

P5	P6	P7	M4	M5	D2	D3

☐ **Summative Feedback:**

☐ **Resubmission Feedback:**

Grade:

Assessor Signature:

Date:

Internal Verifier's Comments:

IV Signature:

ASSIGNMENT 2 BRIEF

Qualification	BTEC Level 5 HND Diploma in Computing
Unit number	10: Website Design & Development
Assignment title	Web Services Presentation and Guidebook
Academic Year	2018 – 2019

Unit Tutor			
Issue date		Submission date	
IV name and date			

Submission Format:

Format:

1. A report document including some sections
 - Section 01: A review of appreciate web design principles, standards and guidelines.
 - Section 2: Design document for online shopping website.
 - Section 3: Implementation of website design.
 - Section 4: Test plan and test evaluation.
2. 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.

Submission Students are compulsory to submit the assignment in due date and in a way requested by the Tutors. The form of submission will be a **soft copy** posted on <http://cms.greenwich.edu.vn/>

Note: The Assignment *must* be your own work, and not copied by or from another student or from books etc. 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. Make sure that you know how to reference properly, and that understand the guidelines on plagiarism. *If you do not, you definitely get failed*

Unit Learning Outcomes:

LO3 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:

You work as a full-stack web team leader for a leading creative web solutions and marketing company. Your team is about to have a big contract to develop an online shopping mall.

In order to finish your work effectively you need to review all appropriate principles, standards and guidelines for website designing and development, evaluate all technical challenges to produce a good design document for the online shopping website with wireframes, functional illustrations and a full set of client and user requirements.

Then, you lead your team to utilize web design and development technologies, tools and techniques to implement your web design to develop the online shopping website. To get good result, you always ask your team for following your design document by comparison between created multipage website with your design document and evaluation.

As your role, to ensure that the multipage website for online shopping developed by your team is a high quality product, you also need to ask your team members to follow quality assurance process and implement it during your design and development stages by creating a suitable test plan. The test phase should be seriously implemented by reviewing and analysing all test results to evaluate applied quality assurance process and point out suggestions of improvements for online shopping website

Learning Outcomes and Assessment Criteria		
Pass	Merit	Distinction
LO3 Utilise website technologies, tools and techniques with good design principles to create a multipage website		D2 Critically evaluate the design and development process against your design document and analyse any technical challenges.
P5 Create a design document for a branded, multipage website supported with medium fidelity wireframes and a full set of client and user requirements. P6 Use your design document with appropriate principles, standards and guidelines to produce a branded, multipage website supported with realistic content.	M4 Compare and contrast the multipage website created to the design document.	
LO4 Create and use a Test Plan to review the performance and design of a multipage website		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.
P7 Create a suitable Test Plan identifying key performance areas 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.	

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P5: Create a design document for a branded, multipage website supported with medium fidelity wireframes and a full set of client and user requirements.

I. Create design document.

1. Client and user requirement analysis:

1. Project Specification:

- Orangestore.com is a website that offers a lot of laptops. They want to update and renovate the website with all the linked products on their website. Consumers will buy what they need exactly. A business will have a good product of what their offers. This website can be loaded with HTML5, CSS, JavaScript, and PHP on the window network. Nearly all existing websites including Google Chrome, Safari, UC apps, etc. should do a decent job on this page. (W3, n.d.)

2. Client: Orange store

3. Data given by the customer:

- Input data to the system:
 - Information about products categories: Category ID, Category name, Category detail.
 - Information about products: id, name, category, price, short description, detail description, quantity, image of product.
 - Information of customer: Username, password, full name, email, address, telephone, gender, date of birth.
 - Information about Store: Contact, location.
- Output data from the system:
 - List all products and price of product
 - Personal information on who the store's registered client was.
- The process involved in the system:
 - Customer processing registration.
 - Admin processing registration from database.
 - Adding, deleting, updating category.
 - Adding, deleting, updating product.

4. The scale of the Job

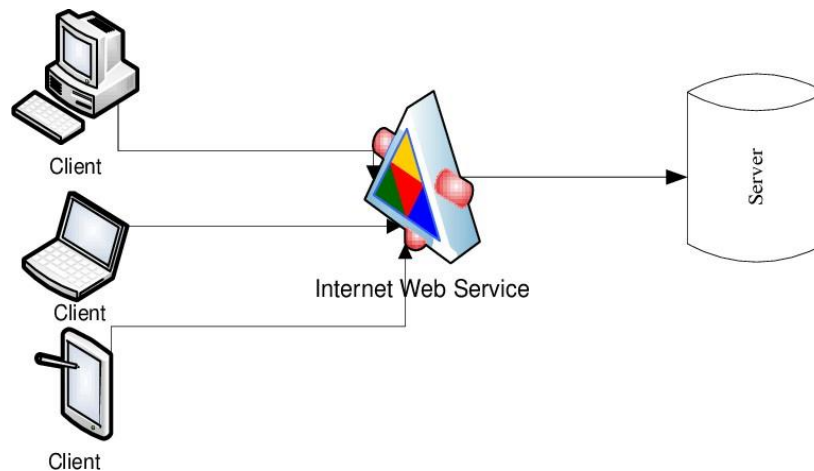
- Plan a website for online shopping with product categories.
- When the user is registered with the site and can be logged in to the site.
- The user can contact through the contact page.

- Perform the following functions for administrators:
 - Add, edit, and delete product.
 - Add, edit, and delete category.

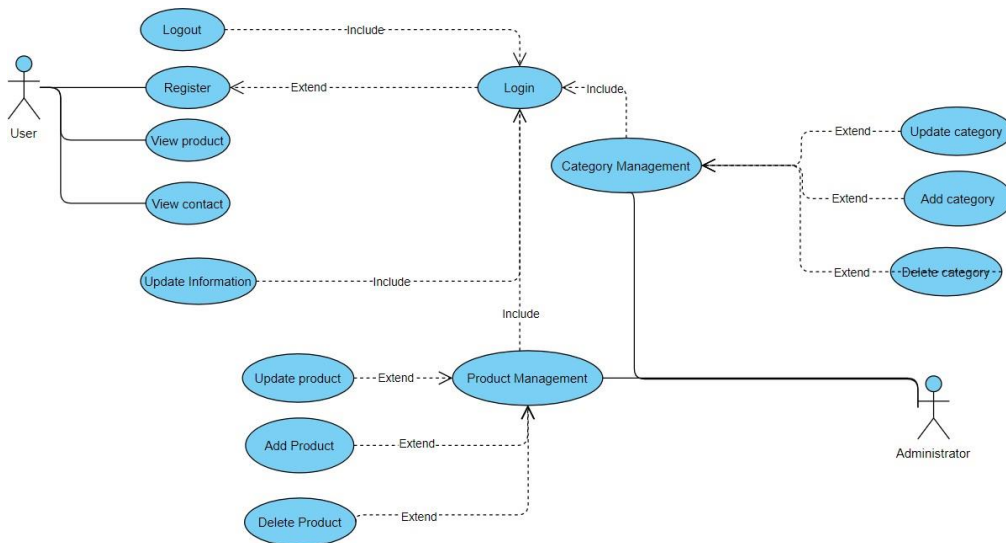
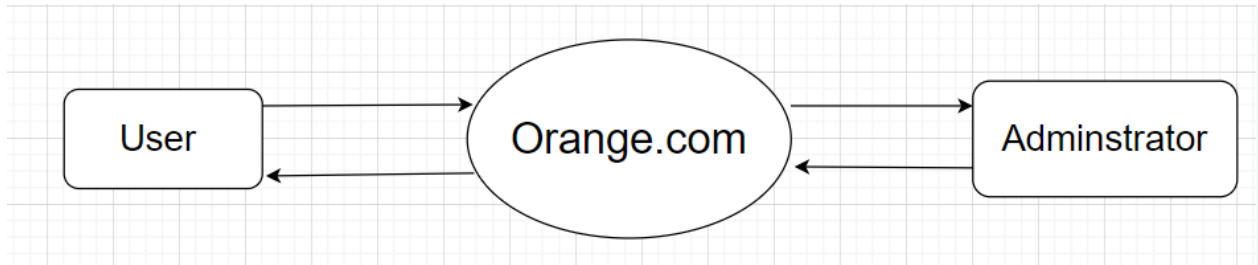
5. Criteria for Consumer acceptance.

No.	Criteria for Consumer acceptance
1	The home page should be created by a suitable logo, the header should be created by button contain links to customer directional they want.
2	The site will include links to a variety of items, including Macbook Pro, Macbook Air, iMac.
3	Product name and product price must be added with the images.
4	The user can register members of the store and then can log in to the website.
5	The user may be edit profiles on the website.
6	Administrators may perform the function as add, edit, and delete products.
7	Administrators may perform the function as add, edit, and delete category.

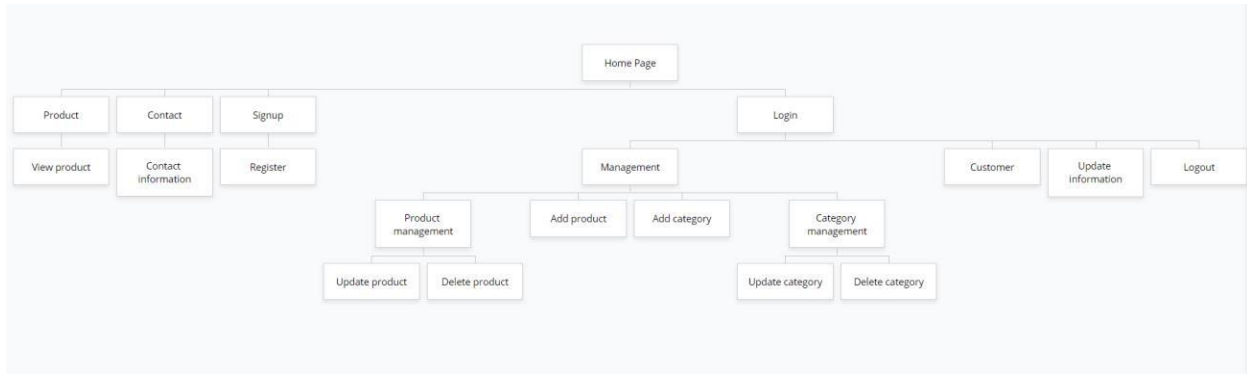
2. The architecture of the Application.



- Where there is internet the users maybe access the website. the user can use the mobile device, laptops, desktop with all operating systems as Android, Window, IOS through the web application as Google Chrome, Opera, Safari, etc. (NNGroup, n.d.)

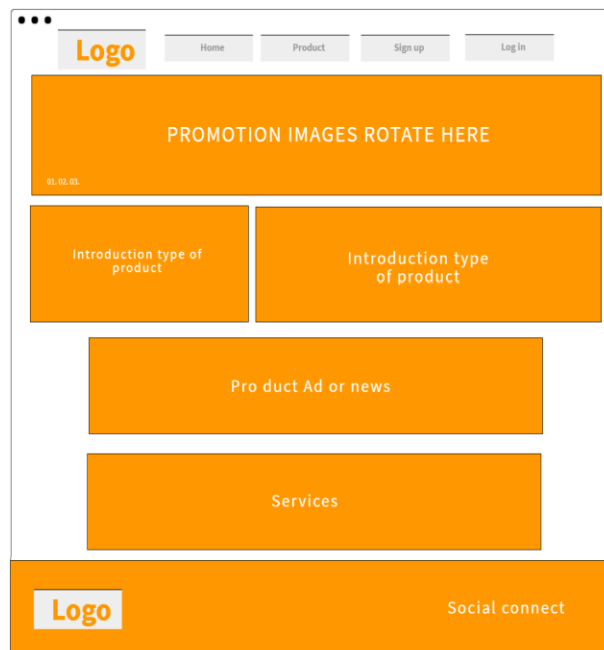


5. Site map.



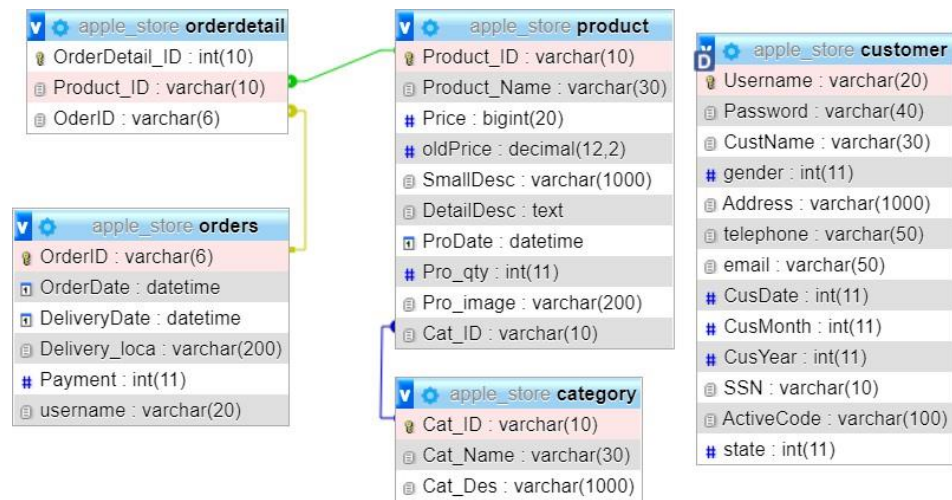
- When customers access the Orangestore.com then the site will be shown the home page which includes Product, Contact, Signup, and log in. On the product page, the customer will be seen a lot of products over there. On the contact page, the customer will be seen the contact information and location of the store. The signup page, the customer may be registering members through a registration form. In the login section, the customers and administrators can log in to the site. Besides, when the customer logged in the site, they could be seen all information and edit personal information. The administrator would be updated, add, delete of products and category when logged in which admin account. If they want to end, the customer and administrator must click the logout command on the home page.

6. Wireframes and specific explanation.



- Based on request Orangestore.com, they need inappropriately with the log. The navigation section should be appropriately designed for the customer can see easily. Promotion images rotate will show different types of products of the store as Macbook pro, iMac, etc. When the customers access the site they will see the introduction of products through two forms showing on the site. From that, the customers may see the type of news and ad products. When the customers were seen and want to buy it then they could be service reference at down there include free shipping worldwide, free return, and 24h fast support. Footer will show the logo of the store and many social contacts.

7. Database diagram.



- Based on the Orangestore.com request are all the users can see a lot of product categories and orders than creating five database tables include orderdetail, orders, product, category, the customer. All of the information include registered members, add, edit, delete by administrators perform will be sent to the database and saved over there.

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

I. Functional of multipage website:

- Register page: On the register page, the only user can be registering with the site, the administrator can still register but cannot log in with administration cause administration just creating on the database. On the database have state

column with state equal zero is for the normal user account and state equal one is for an administrator account.

Orange Store. Home Product Contact Sign Up Log In

Username(*):

Password(*):

Confirm Password(*):

Full name(*):

Email(*):

Address(*):

Telephone(*):

Gender(*): ☐ Male ☐ Female

Date of Birth(*): Choose Date Choose Month Choose Year

- ☐ In this register form, the user must do input all personal information including Username, Password, Confirm Password, Full name, Address, Email, Telephone, Gender, and Date of birth.
- ☐ When user input not enough one of the requests then the system will be sent the notification on the screen report they know the information not enough. For example: The user input not enough and not correct password format.

localhost says

Choose Year of Birth, Please!

localhost says

Password must be greater than 5 chars!

2. Login page: The login page created for the purpose all of users and administrators access the site carry out the necessary issues.

Orange Store. Home Product Contact Sign Up Log In

Username(*):

Password(*):

Login Cancel

- ☐ Which login function the users and administrators should know all of the statuses through notification show on the screen if they logged in fail cause input, not enough username or password. If they log in with the correct password and username then from login page load to home page.

localhost says

Enter Password, Please!

OK

localhost says

Enter Username, Please!

OK

3. Update registered members.

- ☐ When the user login with username is user1 successfully, at that time, register element will become update personal information with showing on the screen is Hi,user1.

Orange Store. Home Product Contact Hi,user1 Log Out



- ☐ Hi,user1 must have to show when the user logged in successfully. In the Hi,user1 include “Hi,” is formatting by the system and the “user1” is username when a user logged in.
- ☐ User can be edit personal profiles when they want. But the user does not edit username, email and state, administrator too.

Orange Store. Home Product Contact Hi,user1 Log Out

Username(*):

Email(*):

Password(*):

Confirm Password(*):

Full name(*):

Address(*):

Telephone(*):

- When user and administrator log out then the site will return to the original state of the site.

4. Administrator section.

- ☐ When adminster logged in with admin account then display will appear more “Management” on the toolbar. The “Management” include “Add_product, Add_category, Category_Management”.
















Orange Store. Home Product Contact Management▼ Hi,admin Log Out


Add_Product
Add_Category
Category_Management

- ☐ The “Management” is product management. In that here, the administrator could be seen all information include No., Product ID, Product Name, Price Quantity Category ID, Image and more two function are edit and delete function.

Orange Store. Home Product Contact Management ▾ Hi,admin Log Out

Product Management

No.	Product ID	Product Name	Price	Quantity	Category ID	Image	Edit	Delete
1	P0097	Lapnew12	272442	16	Macbook Pro			
2	mp04	Macbook Pro 2020	20000	30	Macbook Pro			
3	mp03	Macbook Pro 2017	1499	50	Macbook Pro			
4	mp02	Macbook Pro 2016	1399	20	Macbook Pro			
5	mp01	Macbook Pro 2015	1299	12	Macbook Pro			

Orange Store. 

A. Update Product

- When the administrator wants to edit product information, they just click the item function at row edit. They can change all product information except the product ID does not change.

Orange Store. Home Product Contact Management ▾ Hi,admin Log Out

Product ID(*): P0097


Product Name(*): Lapnew12

Product category(*): Macbook Pro ▾


Price(*): 272442

Short description(*): abc

Detail description(*):




Quantity(*): 16

Image(*): 

Choose File: No file chosen

Update Ignore

Orange Store. 

B. Delete product

- When an administrator wants to delete a product, they just click the item function at row delete. When they click on delete function the system sent notification to confirm they want to delete a product specified.



- The “Category_Management” is category of product. In that here, the administrator could be seen all information include No., Category Name, Description, and more two function are edit and delete function.

Orange Store. Home Product Contact Management ▾ Hi,admin Log Out

Product Category

No.	Category Name	Desscriptin	Edit	Delete
1	iMac Pro	iMac Pro 2016-2020		
2	Macbook Air	Macbook Air 2017-2020		
3	Macbook Pro	Macbook Pro 2015-2020		
4	present	asdas		

Orange Store.

C. Edit Category of product

- When the administrator wants to edit category information of the product, they just click the item function at row edit. They can change all category information of the product category information of the product except the Category ID does not change.

Orange Store. Home Product Contact Management ▾ Hi,admin Log Out

Category ID(*) :

Category Name(*) :

Description(*) :

Orange Store.

D. Delete Category of product

- When an administrator wants to delete a category of product, they just click the item function at row delete. When they click on delete function the system sent notification to confirm they want to delete a category of the product specified.



E. Add product.

- The administrator wants to add new a product then they access the “Add_Product”. It showed table with many information include Product ID, Product Name, Product Category, Price, Short description, Detail description, Quantity, and Image.

Orange Store. Home Product Contact Management Hi,admin Log Out

Add_Product
Add_Category
Category_Management

Product ID(*): Product ID

Product Name(*): Product Name

Product category(*): Phone, tablet, laptop

Price(*): Price

Short description(*): Short description

Detail description(*):

Quantity(*): Quantity

Image(*): Choose File No file chosen

Add new Ignore

Orange Store. @ f t

- They must be add all the information if they does not enough then the system will sent notification on the screen.
For example:



F. Add Category of product.

- The administrator wants to add new a product then they access the “Add_Category”. It showed table with many information include Category ID, Category Name, Description.

Orange Store. Home Product Contact Management ▾ Hi,admin Log Out

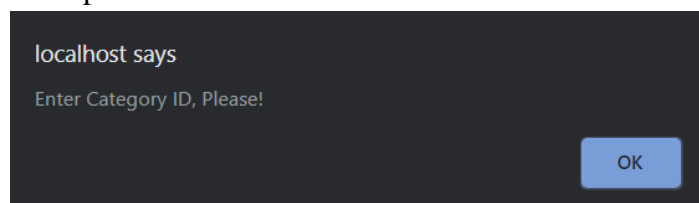
Category ID(*):

Category Name(*):

Description(*):



- They must be add all the information if they does not enough then the system will sent notification on the screen.
For example:



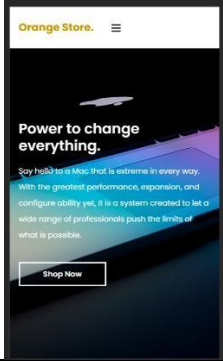
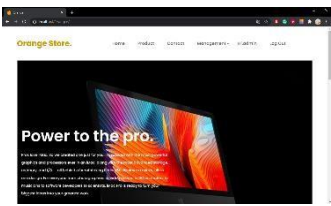
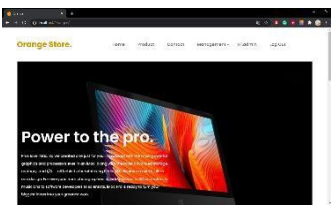
P7 Create a suitable Test Plan identifying key performance areas and use it to review the functionality and performance of your website. User Experience (UX) and User Interface (UI).

No.	Test case	Input data	Expected output	Actual output	Evaluation
1	Test link home	Click link of product	The link usually works then Product page was open	Link activity and then Product page was open	PASS
		Click link of register	The link usually works then Register page was open	Link activity and then Register page was open	PASS
		Click link of login	The link usually works then Login page was open	Link activity and then Login page was open	PASS
2	Add Category	Add the category which does not exist in the database.	Check and save information of category into database.	Save information of category into database.	PASS
		Add the category which existed in the database.	Check and show the message if the category existed in database.	Show the notification of the category that existed in the database.	PASS
		Enter wrong input of the form	Error message display and reload the add category page	Error message display and reload the add category page	PASS
3	Add Product	Add the product which does not exist in the database.	Check and save information of product into database.	Save information of product into database.	PASS
		Add the product which existed in the database.	Check and show the message if the product existed in database.	Show the notification of the product that existed in the database.	PASS
		Enter wrong input of the form	Error message display and reload the add product page	Error message display and reload the add product page	PASS
4	Register	Enter information about customers who existed in the database.	Check and show the message if customer's username existed in database	Show the notification of the customer's username that existed in the database.	PASS
		Enter information about customers who does not existed in the database.	Check and save information into database	Save information of customer into database.	PASS
5	Login	Enter the username and password does not exist in the database.	Error message display "You logged in fail" and reload the login page	Error message display "You logged in fail" and reload the login page	PASS
		Enter right the username and	Send to user logged-in home page	Send to user logged-in home page	PASS

		password of user account			
		Enter right username and password of admin account	Send to admin logged-in home page	Send to admin logged-in home page	PASS
6	Update Category	Enter all the information on the category not exist in the database.	Check and save the information of the category into the database and load the Category Management page.	Save the information of category into the database load the Category Management page.	PASS
		Enter category ID and category name that existed in the database	Check and show the message error the information of category that has existed in the database and reload the Update Category.	Show the message error the information that has existed in the database and reload the Update Category.	PASS
		Enter with no change	Return to update category page	Return to update category page	PASS
7	Update Product	Enter all the information on the product not exist in the database.	Check and save the information of the product into the database and load the Management.	Save the information of category into the database load the Management page.	PASS
		Enter the information on the product that existed in the database	Check and show the message error the information of product that has existed in the database and reload the Update Product.	Show the message error the information of product that has existed in the database and reload the Update Product.	PASS
		Enter with no change	Return to update product page	Return to update product page	PASS
8	Delete Category	Click delete button	Show the confirm dialog "Are you sure to delete".	Show the confirm dialog "Are you sure to delete".	PASS
		Click ok in confirm dialog	Delete category in database and reload the page	Delete category in database and reload the page	PASS
		Click cancel in confirm dialog	Confirm dialog disappear	Confirm dialog disappear	PASS
9	Delete Product	Click delete button	Show the confirm dialog	Show the confirm dialog	PASS

			“Are you sure to delete”.	“Are you sure to delete”.	
		Click ok in confirm dialog	Delete product in database and reload the page	Delete product in database and reload the page	PASS
		Click cancel in confirm dialog	Confirm dialog disappear	Confirm dialog disappear	PASS
10	Update Customer’s information	Click “Hi,User” button	Load to update customer page	Load to update customer page	PASS
		Change full name and address in update customer page (Note: not change password and confirm password)	Change successfully and load to home page.	Change successfully and load to home page.	PASS
		Change full name and address in update customer page (Note: change password and confirm password)	Change successfully and load to home page.	Change successfully and load to home page.	PASS

➤ User Experience (UX) and User Interface (UI).

NO.	Operating / Device	Application	Responsive	Expected output	Actual output	Evaluation
1	Android, IOS on Mobile	Google chrome, Safari, Opera, Fire Fox,		The site running the smooth operation on a Mobile device	The site running the smooth operation on a Mobile device	PASS
2	Window, MacOS, LINUX on Desktop	Google chrome, Safari, Opera, Fire Fox,		The site running the smooth operation on a Mobile device	The site running the smooth operation on a Desktop device	PASS
3	Window, MacOS, LINUX on Tablet	Google chrome, Safari, Opera, Fire Fox,		The site running the smooth operation on a Mobile device	The site running the smooth operation on a Tablet device	PASS

References

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