

ASSIGNMENT 2 FRONT SHEET

Qualification	BTEC Level 5 HND Diploma in Computing		
Unit number and title	10: Website Design & Development		
Submission date	04/01/2021	Date Received 1st submission	
Re-submission Date		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:

Signature & Date:

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:

- A report document including some sections
 - Section 1: 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.
- 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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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. Project Specification:

- IFS.com is an online store for various types of Fruit. They have collection of Fruit. Now they want to revamp their website with all the products listed on the website. Consumers should find it easy to view various products and decide upon purchasing the right product to meet their requirements.
- A website needs to be designed to display various fruit available with the store. Details of locations, feedback must be included.
- The website is to be developed for the Windows Platform using HTML5, CSS, JavaScript and PHP. The site should work well in all leading browsers including Chrome, IE, Firefox etc.

2. Client:

- IFS Store

3. Data are given by the customer:

✓ Input data to the system:

- Information about products categories: Category ID, Category Name, Description.
- Information about products: Product ID, Product Name, Price, Quantity, Image of product.
- Information of customer: Username, Password, Full name, Email, Address, Telephone, Gender and Date of Birth.

✓ Output data from the system:

- List fruit Category.
- List all fruit and fruit detail.

✓ Process involved in the system:

- Processing customer's registration.
- Processing customer's login.
 - Adding, updating, deleting fruit category.
- Adding, updating, deleting fruit.

4. Scope of the Work:

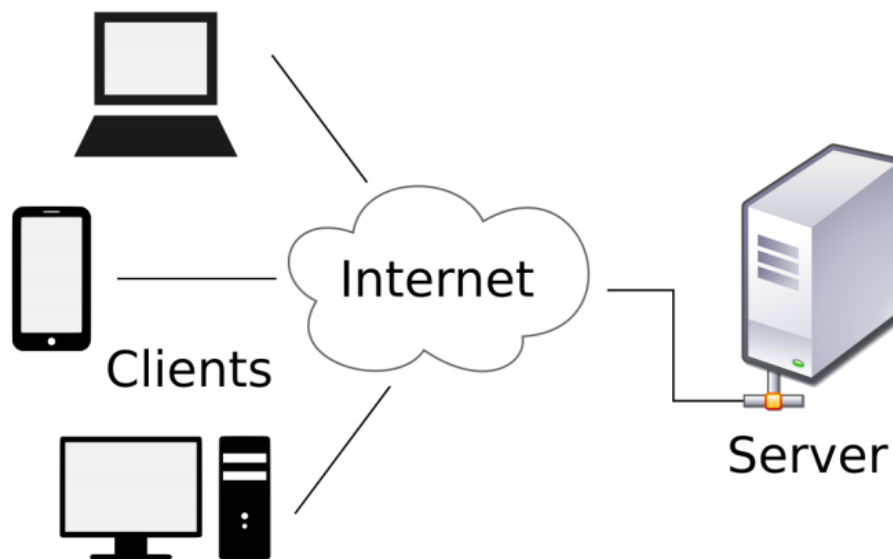
- ✓ Plan a website for online shopping with product categories.
- ✓ When the user is registered with the site and can be logged in to the site.
- ✓ Customers can send feedback to the shop directly via email and phone number.
- ✓ Perform the following functions for administrators:
 - Add, edit, and delete product.

- Add, edit, and delete category.

5. Customer Acceptance Criteria:

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 user can register members of the store and then can log in to the website.
3.	Product name and product price must be added with the images.
4.	Customer can register member of store and then can login the website
5.	Links of the product must be categorized like: (fruit, gift baskets...)
6.	Administrators may perform the function as add, edit, and delete products.
7.	Administrators may perform the function as add, edit, and delete category.

a. Architecture of the Application.

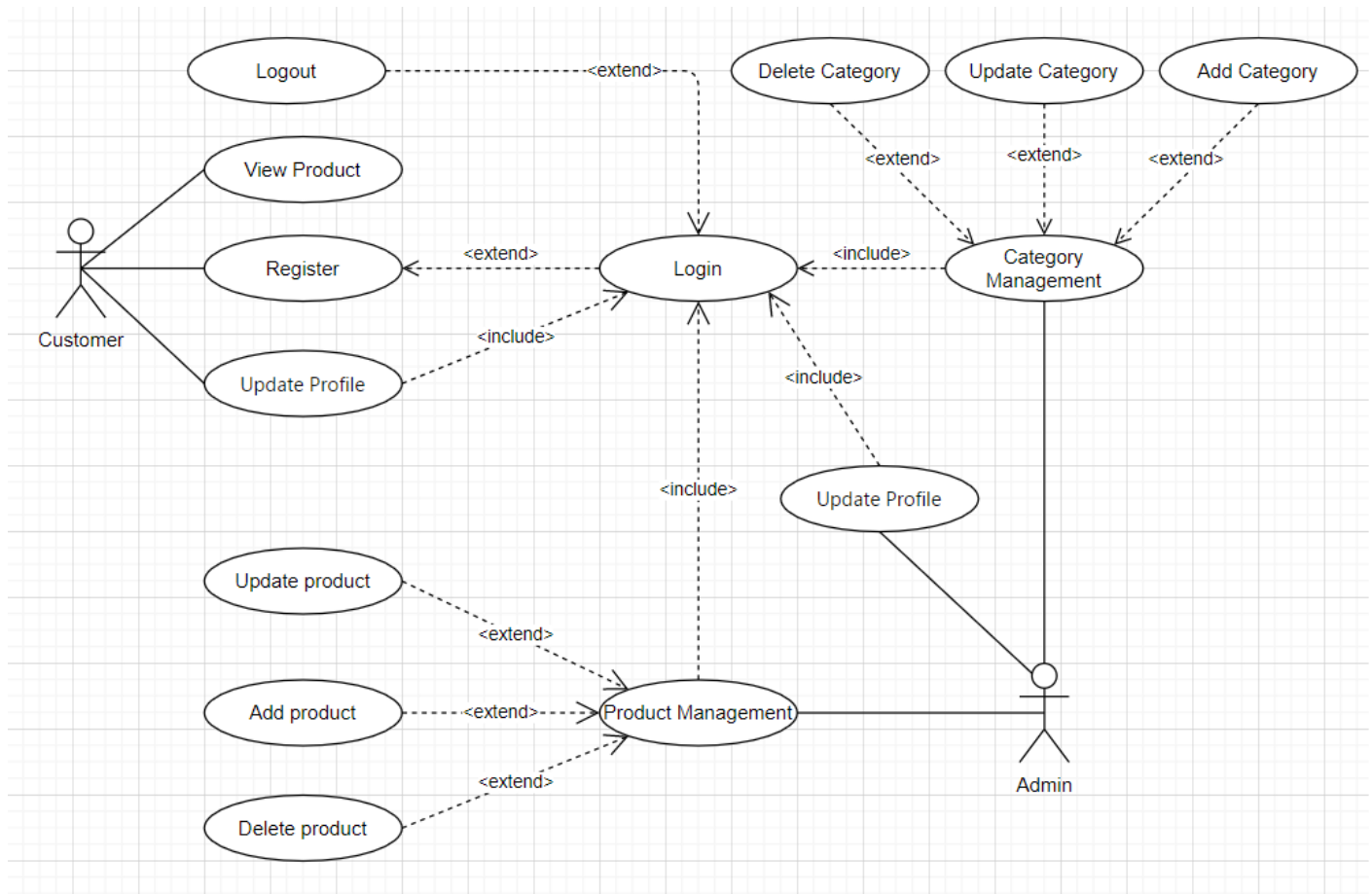


b. Data Flow Diagram.



LEVEL 0 DFD

c. Use case diagram.



d. Database diagram.

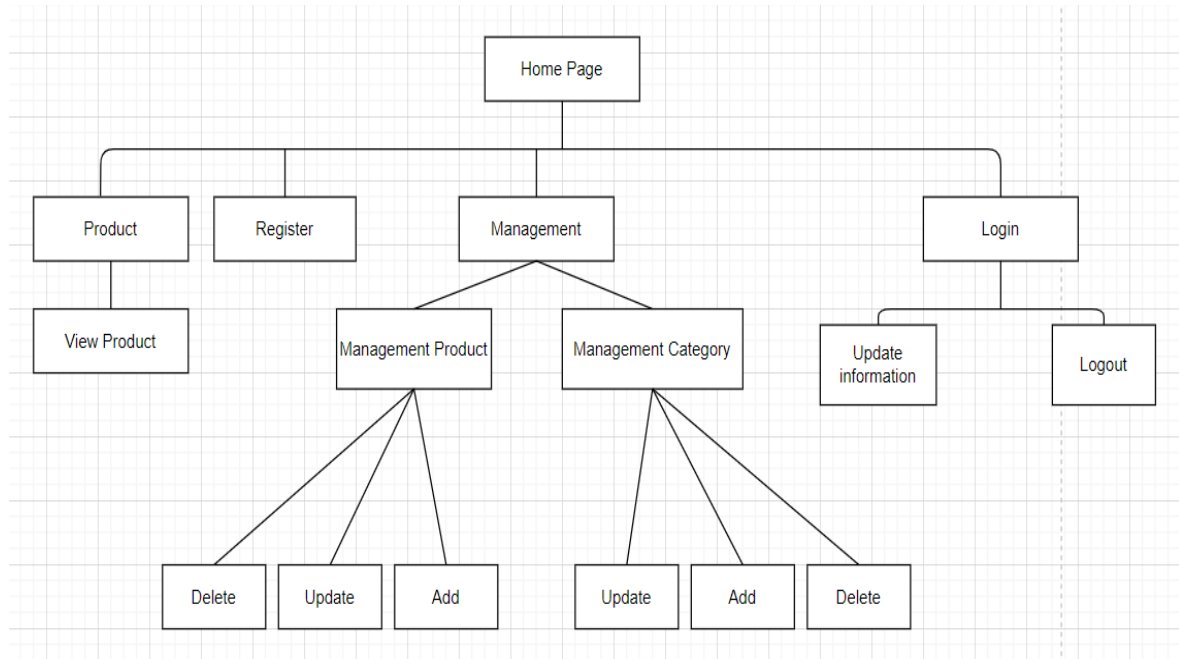
online_shopping customer
Username : varchar(20)
Password : varchar(40)
CustName : varchar(30)
gender : int(11)
Address : varchar(1000)
telephone : varchar(50)
email : varchar(50)
CusDate : int(11)
CusMonth : int(11)
CusYear : int(11)
SSN : varchar(10)
ActiveCode : varchar(100)
state : int(11)

online_shopping orders
OrderID : varchar(6)
OrderDate : datetime
DeliveryDate : datetime
Delivery_loca : varchar(200)
Payment : int(11)
username : varchar(20)

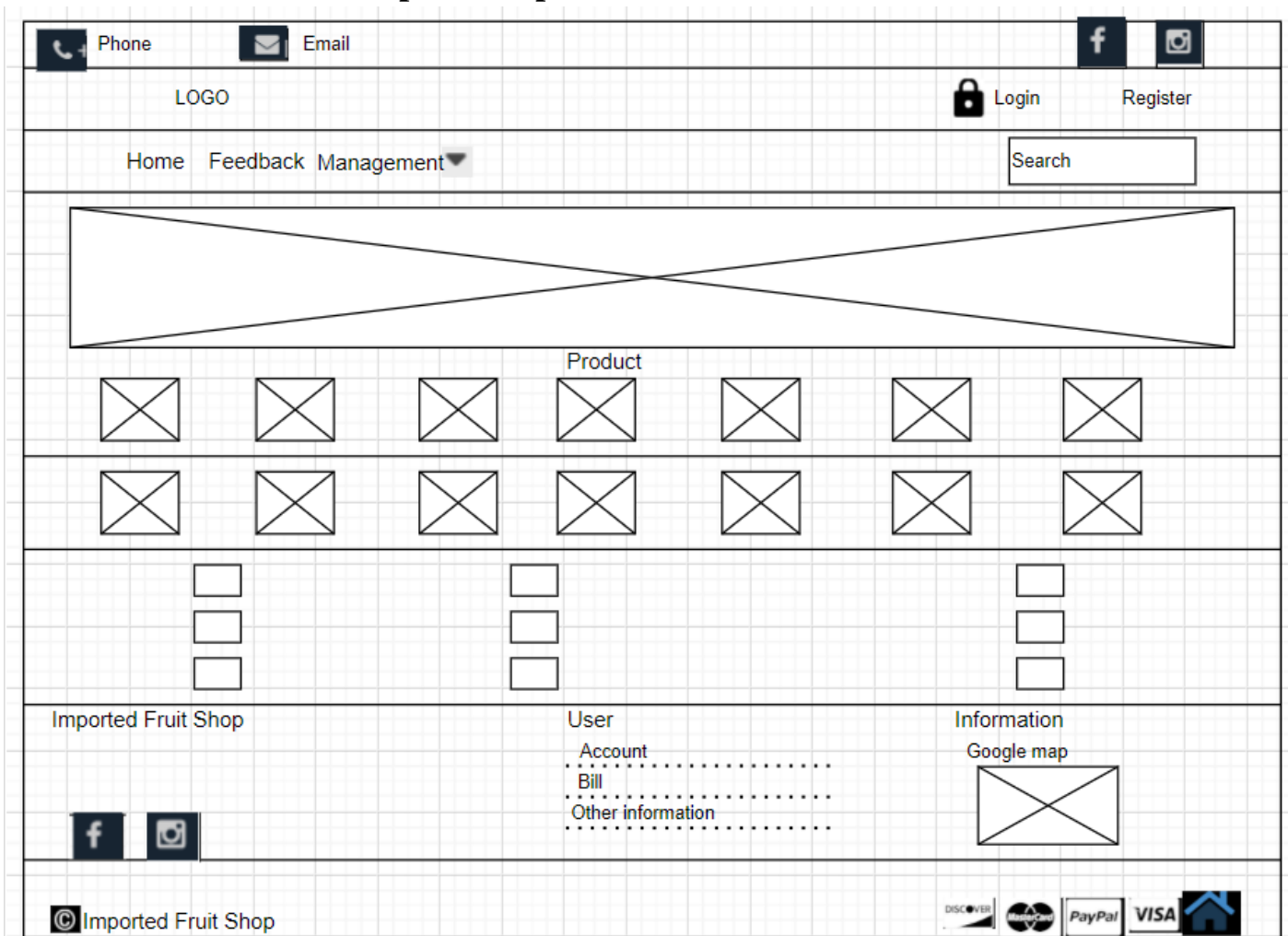
online_shopping product
Product_ID : varchar(10)
Product_Name : varchar(30)
Price : bigint(20)
oldPrice : decimal(12,2)
SmallDesc : varchar(1000)
DetailDesc : text
ProDate : datetime
Pro_qty : int(11)
Pro_image : varchar(200)
Cat_ID : varchar(10)

online_shopping category
Cat_ID : varchar(10)
Cat_Name : varchar(30)
Cat_Des : varchar(1000)

e. Site map.



f. Wireframes and specific explanation.



Based on request IFS.com, they need inappropriately with the log. The navigation section should be appropriately designed for the customer can see easily. Images will show different types of products of the store as fruit, fruit basket, etc. When the customers access the site they will see the introduction of products through 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 Facebook, Instagram contacts, and google map.

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:

✓ Home page:

- Users and admin can login here, users can view products and register their accounts and update information, but administrators can perform the function as add, edit, and delete products, and may perform the function as add, edit, and delete category.



✓ Register page:

- The administrator will also register with the register page, the user can register with the site, but can't log in with administration cause administration just to build on the database. On the database have "state" column with a state equal to "0" is for the normal user account and a state equal to "1" is for an administrator account.

+84 981 424 85 phamcaonguyen03032000@gmail.com f

IFS Store  Login Register

Home Management Search

Member Registration

Username(*):

Password(*):

Confirm Password(*):

Full name(*):

Email(*):

Address(*):

Telephone(*):

Gender(*): ☐ Male ☐ Female

Date of Birth(*):

REGISTER

- 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 or password not match.
 - Enter fields with mark:
Username or email already exists

Member Registration

Username(*):

- Password must be greater than 5 chars:
Password must be greater than 5 chars

Member Registration

Username(*):

Password(*):

Confirm Password(*):

- The password and the confirmation password are not the same:

The password and the confirmation password are not the same

Member Registration

Username(*):

Password(*):

Confirm Password(*):

- Choose Year of Birth, please:

Choose Year of Birth, please

Member Registration

Username(*):

Password(*):

Confirm Password(*):

Full name(*):

Email(*):

Address(*):

Telephone(*):

Gender(*): ☒ Male ☐ Female

Date of Birth(*):

✓ Login page:



Login

Username(*):

Password(*):

- The login page created for the purpose of accessing the web for both visitors and administrators accesses the site carry out the necessary issues.

Login

Username(*):

Password(*):

- What login functionality users and administrators should know all the statuses on the screen by warning display whether they signed in failed to trigger input, inadequate username or password. If they log in with the correct password and username then from login page load to home page.

- If the user or administrator is logged in incorrectly.

You logged in fail

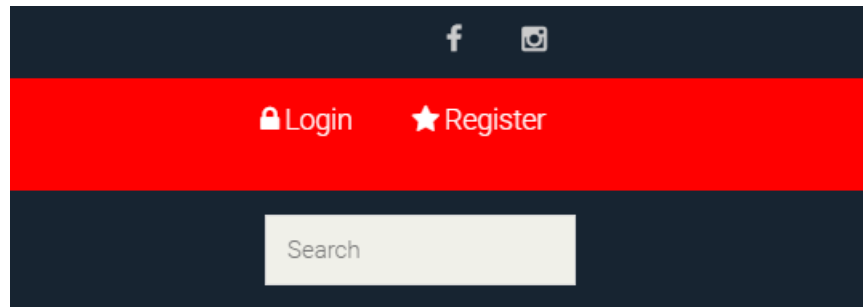
Login

Username(*):

Password(*):

✓ Update registered members.

- When the user login with the username “nguyen” is complete, at that time, register feature will be modified with “Hi, nguyen” showing personal details on the page.
- “Hi, nguyen” has to display when the user has successfully logged in. In Hi, “nguyen” includes “Hi”, which is formatted by the system, and when logged in, “nguyen” is the username.



- User and administrator can be edit personal profiles when they want. But the user and administrator does not edit username, email and state.

Update Profile

Username(*):

Email(*):

Password(*):

Confirm Password(*):

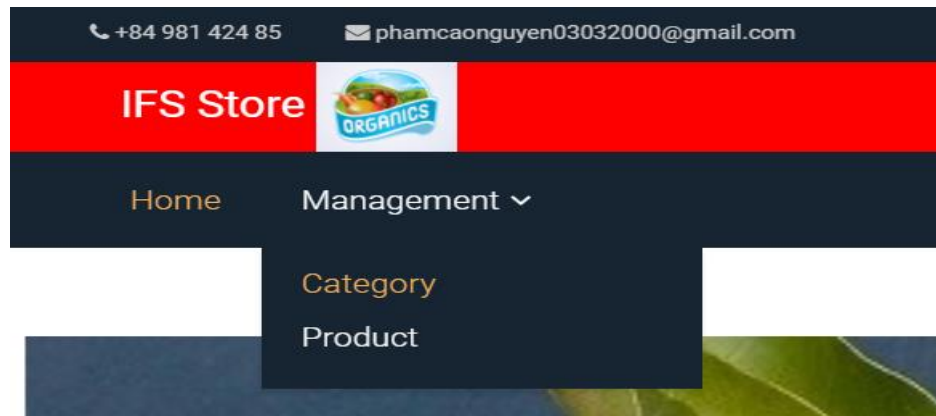
Full name(*):

Address(*):

Telephone(*):

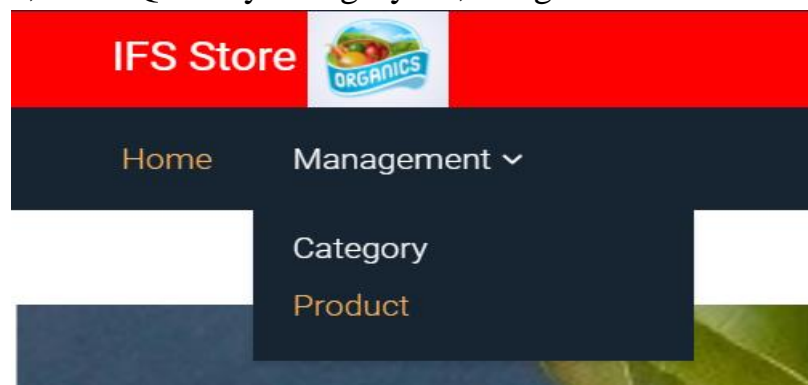
✓ Administrator section.

- When the administrator login to the website, “management” including “category” and “product” will be accessible.



II. 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 function edit and delete.



Product Management

[Add new](#)

No.	Product ID	Product Name	Price	Quantity	Category ID	Image	Edit	Delete
1	P006	Gift Baskets(02)	155	50	Gift Baskets			
2	P005	Gift Baskets(01)	550	90	Gift Baskets			
3	P001	Fruit Basket	280	30	Fruit Baskets			
4	P007	Fruit basket combo	100	20	Fruit basket combo			
5	P002	Strawberry Flowers	150	2000	Strawberry Flowers			

✓ Product Management “Add new”.

- 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.

Adding new Product

Product ID(*):

Product Name(*):

Product category(*):

Price(*):

Short description(*):

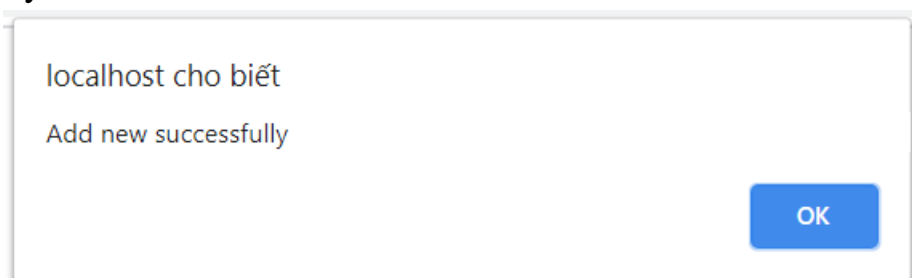
Detail description(*):

MS HTML

Quantity(*):

Image(*): Không có tệp nào được chọn

- When the administrator clicks on update, the system will notify add new successfully.



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

Enter Product ID, please
Enter Product name, please

Adding new Product


Product ID(*):

Product Name(*):

✓ Update Product

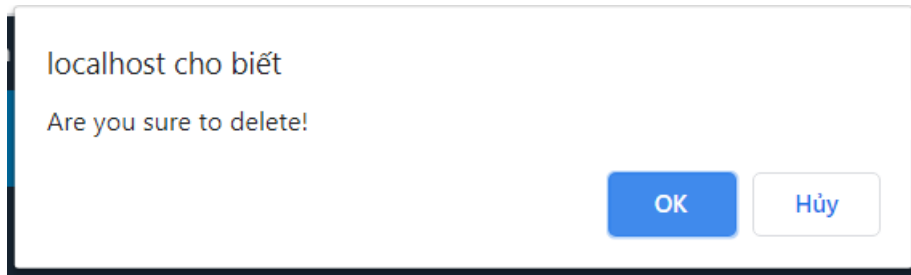
- When the administrator needs to edit product information, at row edit, they just click on the item function. Except that the product ID does not change, they will change all product details.

Updating Product

Product ID(*):	P006
Product Name(*):	Gift Baskets(02)
Product category(*):	Gift Baskets
Price(*):	155
Detail description(*):	New
Quantity(*):	50
Image(*):	 <input type="button" value="Chọn tệp"/> Không có tệp nào được chọn
<input type="button" value="UPDATE"/> <input type="button" value="IGNORE"/>	

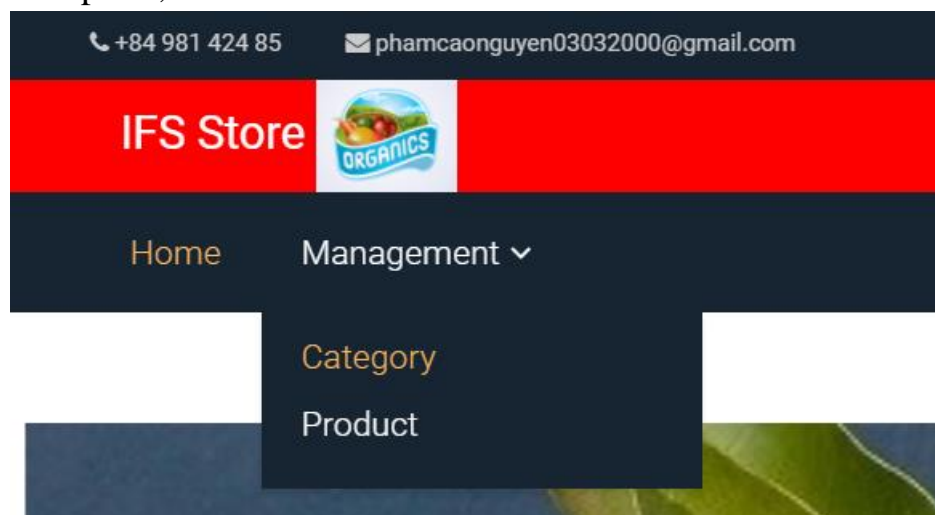
✓ Delete product

- If an administrator needs to delete a product, they only click on the delete row item function. When they click on delete function the system will notification to confirm they want to delete a product specified.



III. The “Management” is “Product category”.

- In that here, the administrator could be seen all information include No., Category Name, Description, and more two function are edit and delete function.



Product Category

[Add](#)

No.	Category Name	Description	Edit	Delete
1	Fruit Baskets	Fruit Baskets Product		
2	Strawberry Flowers	Strawberry Flowers product		
3	Blueberries	Blueberries product		
4	Pomegranate	Pomegranate product		
5	Gift Baskets	BlueGift Baskets product		
6	Plums	Plums product		
7	Fruit basket combo	Fruit basket combo product		

✓ Product category “Add”.

- 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, and click “ADD NEW”.

Adding Category

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:

Enter Category ID, please

Adding Category

Category ID(*):

✓ 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.

Updating Product Category

Category ID(*):


Category Name(*):

Description(*):

✓ Delete Category of product

localhost cho biết

Are you sure to delete!

- 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.

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	Function	Input Data	Expected output	Actual output	Evaluation
1.	Verify that “You have registered successfully” message is displayed when user enters valid information	Register	Input valid information into form “Username: nguyen, Password: 123456789, Full name: Nguyen, Address: IFS, Telephone: 123456789, Gender: Male, Date of Birth: 3/3/2000”	“You have registered successfully” message is displayed	“You have registered successfully” message is displayed	Pass

2.	Verify that the registration of personal information is unsuccessful	Register	Input valid information into form “Username: nguyen, Password: 123456789, Full name: Pham Cao Nguyen, Email: nguyen@gmail.com, Address: Vinh Long, Telephone: 12345678909 , Gender: Male, Date of Birth: 1/1/2001”	“Username or email already exists!” Please enter another name (email)! message is displayed	“Username or email already exists!” Please enter another name (email)! message is displayed	Pass
3.	Verify that Home page and “Hi, nguyen” are displayed when user enters valid username and password	Log in	Username: nguyen Password: 123456789	Home page and “Hi, nguyen” are displayed	Home page and “Hi, nguyen” are displayed	Pass
4.	Verify that “You logged in fail” message is displayed when user enters invalid username or password	Log in	Username: nguyen Password: 123456	“You logged in fail” message is displayed	“You logged in fail” message is displayed	Pass
5.	Verify that the product information generated on the Category management page was successful.	Add Category	Category ID: H100 Category Name: Fruit Basket (09) Description: Fruit Basket (09) includes	“Add Product category successfully” message is displayed	Successfully added Product Category “H100” but there are no messages is displayed.	Fail

			cherry, banana, apple, and mango, ...			
6.	Verify that the product info created on the Category Manager page failed	Add Category	Category ID: H100 Category Name: Fruit Basket (09) Description: Fruit Basket (09) includes cherry, banana, apple, and mango, ...	“Duplicate category ID or Name” message is displayed	“Duplicate category ID or Name” message is displayed	Pass
7.	Verify that the Category product information is updated on the successful Category management page.	Update Category	Category ID: H100 Category Name: Fruit Basket (08) Description: Fruit Basket (08) includes cherry, banana, apple, and mango, ...	“Update Product category successfully” message is displayed page	Successfully update Product Category “H100” but there are no messages is displayed.	Fail
8.	Verify that the Category product information is updated on the unsuccessful Category management page.	Update Category	Category ID: H100 Category Name: Fruit Baskets Description: Fruit Basket (08) includes cherry, banana, apple, and mango, ...	“Duplicate category Name” message is displayed on page	“Duplicate category Name” message is displayed on page	Pass

9.	Verify that the Category product information is deleted on the successful Category management page.	Delete Category	Click the delete button	Show the confirm dialog “Are you sure to delete”.	Show the confirm dialog “Are you sure to delete”.	Pass
10.	Verify that the product information generated on the Product management page was successful.	Add Product	Product ID: N100, Product Name: Gift Baskets (09), Product category: Gift Baskets, Price: 268, Detail description: Gift Basket New, Quantity: 50	“Add new successfully” message is displayed	“Add new successfully” message is displayed	Pass
11.	Verify that the product information created on the Product Management page failed.	Add Product	Product ID: N100, Product Name: Fruit Basket combo, Product category: Fruit Basket combo, Price: 260, Detail description: New Combo, Quantity: 50	"Duplicate product ID or Name" message is displayed	"Duplicate product ID or Name" message is displayed	Pass
12.	Verify that the product information is updated on the successful	Update Product	Product ID: N100, Product Name: Gift Baskets (08),	“Update Product successfully” message is displayed	Successful y update Product management “N100”	Fail

	Product management page.		Product category: Gift Baskets, Price: 268, Detail description: Gift Basket New, Quantity: 50	page	but there are no messages is displayed.	
13.	Verify that the product information is updated on the unsuccessful Product management page.	Update Product	Product ID: N100, Product Name: Gift Baskets (02), Product category: Gift Baskets, Price: 268, Detail description: Gift Basket New, Quantity: 50	“Duplicate product Name” message is displayed page	“Duplicate product Name” message is displayed page	Pass
14.	Verify that the product information is deleted on the successful Product management page.	Delete Product	Click the delete button	Show the confirm dialog “Are you sure to delete”.	Show the confirm dialog “Are you sure to delete”.	Pass

APPENDIX:

https://drive.google.com/drive/folders/1k1pdbJJdfvSnPTAVszuRurlvAydcvORy?usp=s_haring

Admin:

Username (*): nguyen

Password (*): 123456789

Customer:

Username (*): cao

Password (*): 123456789

References

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- Shenoy, A. and Sossou, U., 2014. *Learning Bootstrap*. Packt Publishing Ltd.