

CAN THO UNIVERSITY
COLLEGE OF INFORMATION AND COMMUNICATION TECHNOLOGY



GRADUATION THESIS
BACHELOR OF ENGINEERING IN
INFORMATION TECHNOLOGY
(HIGH-QUALITY PROGRAM)

Build An E-commerce Website To Sell Books

Student: Dang Nguyen Phu Nguyen
Student ID: B1812837
Class: 2018-2022 (K44)
Advisor: Dr. Truong Quoc Dinh

ACKNOWLEDGEMENTS

To successfully complete this Information Technology Project – Fundamental Topics, I would like to thank Dr. Truong Quoc Dinh dedicatedly guide and support me throughout subject implementation.

At the same time, I would also like to thank the teachers of the Faculty of Information and Communication Technology has dedicated to teaching, imparting valuable knowledge to me cumulatively worked on the topic in the past semesters. Despite trying to complete the subject as best as possible, but still did not shortcomings can be avoided. We look forward to the comments of teachers and friends.

Sincerely.

Can Tho, June 10th 2021

Student implement

Dang Nguyen Phu Nguyen

ABSTRACT

Reading book is important because it develops our thoughts, gives us endless knowledge and lessons while keeping our minds active. Books can hold and keep all kinds of information, stories, thoughts and feelings unlike anything else in this world. The importance of a book to help us learn and understand things cannot be underestimated. Reading book is a timeless form of entertainment and information. Nowadays, going to and buying books at stores is quite inconvenient. For example, you hardly know which book to buy or the contents of the book. But a website can help you solve that problem. You can view books with high likes, read descriptions first to decide whether to buy it or not.

Building an e-commerce website to sell books that users can easily access and buy the books they want easily. Shoppers can preview a portion of the book. It saves shoppers time. Website is built with easy to use interface for customers.

This website developed with PHP, Bootstrap, CSS, HTML, JavaScript and database is MySQL

TABLE OF CONTAINS

ACKNOWLEDGEMENTS	i
ABSTRACT.....	ii
CHAPTER 1: INTRODUCTION	1
1.1 Problem.....	1
1.2 Purpose.....	1
1.3 Object and scope of the study	1
1.4 Solutions	1
1.5 The functionality of the site	1
1.5.1 Customer.....	1
1.5.2 Manager	1
CHAPTER 2: ANALYSIS, DESIGN AND IMPLEMENTATION	2
2.3 Use case diagram	4
2.3.1 Login.....	4
2.3.2 Cart.....	5
2.3.3 Order	6
2.3.4 Product management.....	8
2.3.6 Account management	10
2.3.7 Search.....	11
2.3.8 Log out.....	12
Usecase: Log out.....	12
2.4 User interface	13
2.4.1 Homepage	13
2.4.2 View detail product.....	13
2.4.3 View cart.....	14
2.4.4 Login.....	15
2.4.5 Management page	16
CHAPTER 3: CONCLUSION	18
3.1 Result	18
3.2 Restrict.....	18
3.3 Future work.....	18
REFERENCES	19

Table Of Figures

Image 1 Contual Data Model.....	2
Image 2 Physical date model	3
Image 3 Function of Admin.....	3
Image 4 Function of Customer	4
Image 5 Login	4
Image 6 Cart.....	5
Image 7 Order	6
Image 8 Product management.....	8
Image 9 Order management.....	9
Image 10 Account management	10
Image 11 Search.....	11
Image 12 Logout.....	12
Image 13 Hompage.....	13
Image 14 Detail product	13
Image 15 Add product into cart	14
Image 16 View cart.....	14
Image 17 Form checkout	15
Image 18 Login page	15
Image 19 Admin page.....	16
Image 20 Form add new product	16
Image 21 Form update product	17
Image 22 Manage order	17
Image 23 Manage account user	17

CHAPTER 1: INTRODUCTION

1.1 Problem

Nowadays, going to and buying books at stores is quite inconvenient. For example, you hardly know which book to buy or the contents of the book. But a website can help you solve that problem. You can view books with high likes, read descriptions first to decide whether to buy it or not.

1.2 Purpose

Building an e-commerce website to sell books that users can easily access and buy the books they want easily. Shoppers can preview a portion of the book. It saves shoppers time. Website is built with easy to use interface for customers

1.3 Object and scope of the study

The website is created to cater to everyone, especially book lovers. help people to access useful books in a convenient way.

1.4 Solutions

Theoretical basis: knowledge of DBMS MySQL, Bootstrap, PHP, HTML, CSS, Javascript, ...

1.5 The functionality of the site

1.5.1 Customer

- Login/logout
- View product
- Search product
- Cart
- Add product to cart
- Check out

1.5.2 Manager

- Login/logout
- Manage product
- Add new product
- Update product
- Delete product
- View order detail
- View account user

CHAPTER 2: ANALYSIS, DESIGN AND IMPLEMENTATION

2.1 Design database

Contual Data Model

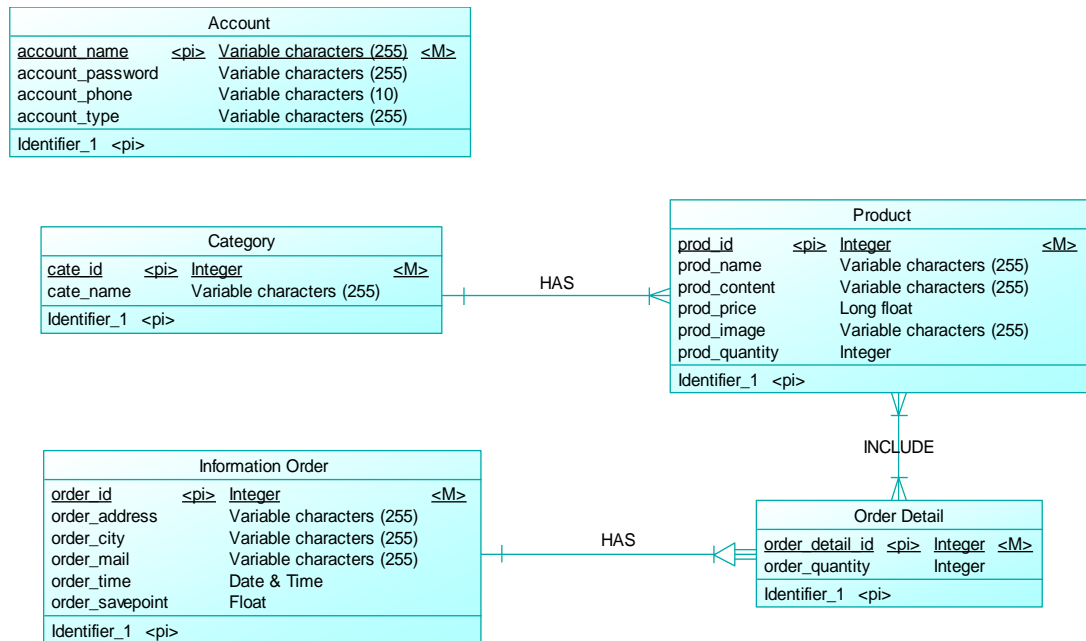


Image 1 Contual Data Model

Physical data model

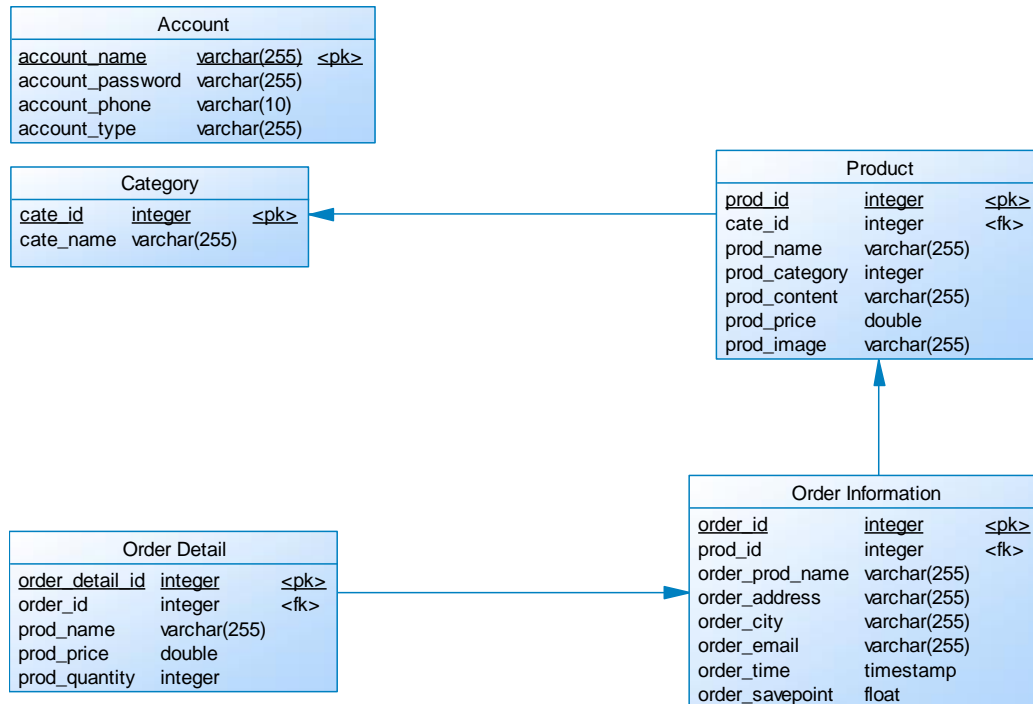


Image 2 Physical data model

2.2 Function diagram

Function of Admin

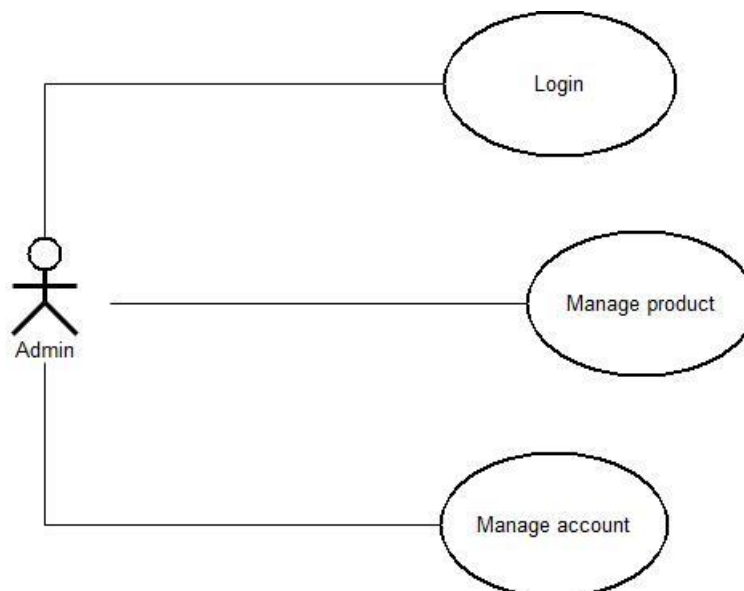


Image 3 Function of Admin

Function of Customer

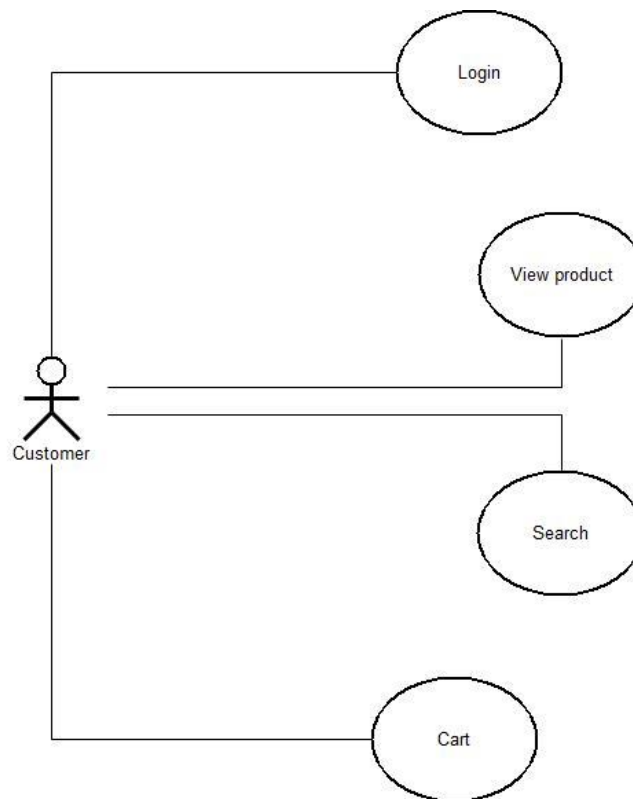


Image 4 Function of Customer

2.3 Use case diagram

2.3.1 Login

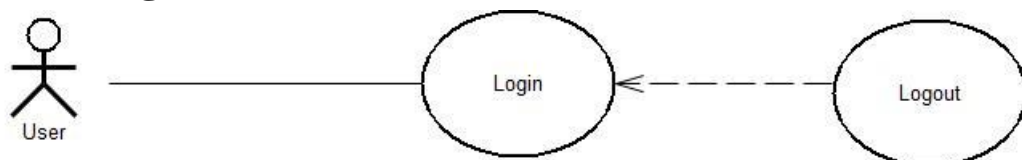


Image 5 Login

Usecase: Login		
Purpose	Allow users to log into the system	
Brief Description	<ul style="list-style-type: none"> - The customer logs in to the website - Admin login to the system 	Priority: Essential
		Complexity: Simple
Actor	Customer, admin	

Ingredients and concerns	Customers log in to the website to purchase, the administrator logs in to the system to manage. Privacy and information be safety
Relationship	<ul style="list-style-type: none"> + Association: customer, admin + Include: Null + Extend: Null + Generalization: Null
Trigger Event	Must register account
Basic Flow	<ol style="list-style-type: none"> 1. The user logs in with the registered account 2. The system checks the login process 3. Notify successful or failed login results 4. End the event
Sub Flows	None
Alternate/Exceptional flows:	Notify successful or failed login results continue to use the function, if failed, proceed to login again.

2.3.2 Cart

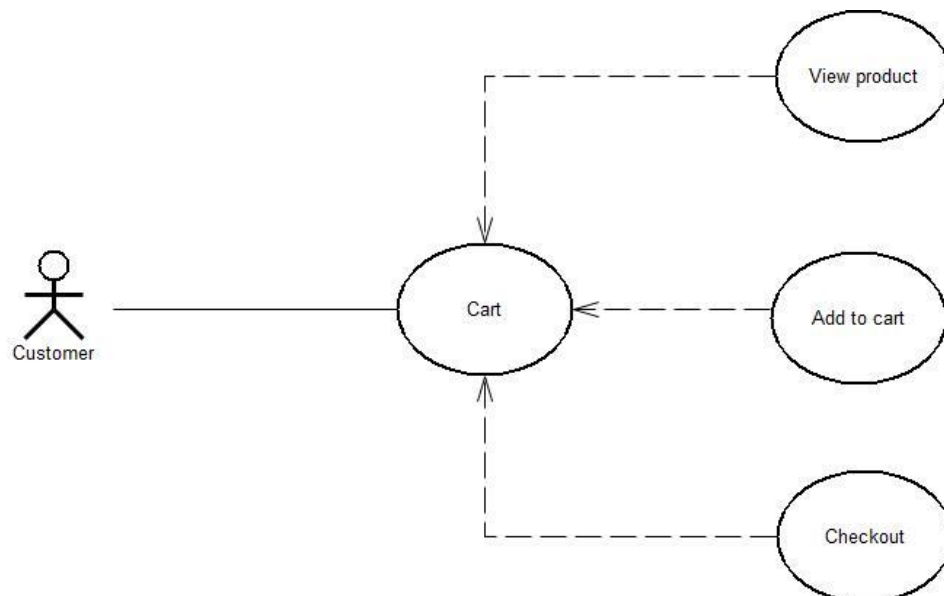


Image 6 Cart

Usecase: Cart		
Purpose	Allows customers to add products to cart	
Brief Description	- Customers access to the website can	Priority: Essential
		Complexity: High

	add products to the cart, with or without an account	
Actor	Customer	
Ingredients and concerns	Customers access to the website to choose the products that they want to buy and add it to the cart	
Relationship	<ul style="list-style-type: none"> + Association: customer + Include: Null + Extend: View product information, update product count, remove product from cart + Generalization: Null 	
Trigger Event	Must register account	
Basic Flow	<ol style="list-style-type: none"> 1. Customers access the website select the add to cart button 2. Click the add to cart button 3. Successful product added notification 4. End the event 	
Sub Flows	Customers can view product details before adding products to cart, detail view also supports add to cart button, when clicked, the product will be added to cart.	
Alternate/Exceptional flows:	Customers can update the number of products in the shopping cart and then proceed to checkout	

2.3.3 Order

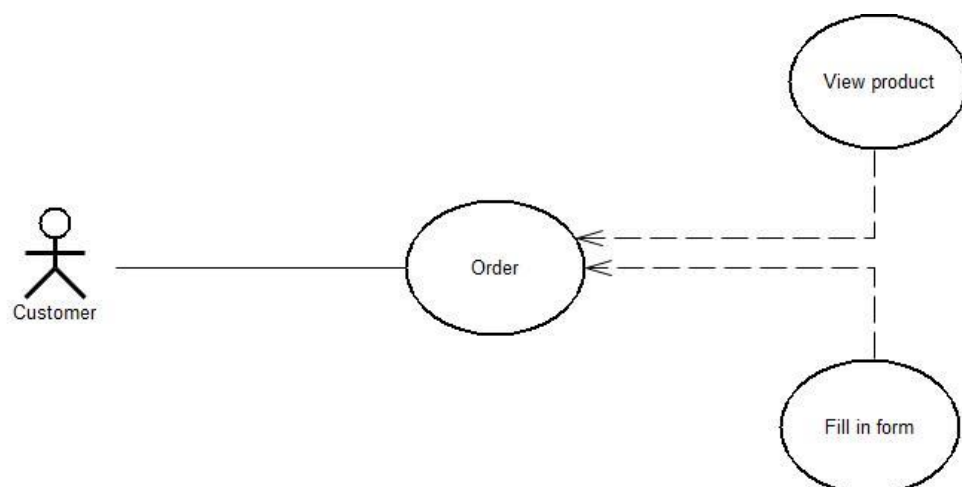


Image 7 Order

Usecase: Order		
Purpose	Allows customers who do not have an account to order	
Brief Description	<ul style="list-style-type: none"> - Customers access the website and go to cart, then press the button "order", fill in purchase information and proceed to order on the system. 	Priority: Essential
		Complexity: High
Actor	Customer	
Ingredients and concerns	Customers who do not have an account want to buy products from the website after searching and choosing the right product	
Relationship	<ul style="list-style-type: none"> + Association: customer + Include: Null + Extend: View order information + Generalization: Null 	
Trigger Event	Having products in the cart, and complete the purchase information	
Basic Flow	<ol style="list-style-type: none"> 1. Find and select the appropriate product and then add it to the shopping cart. 2. Proceed to order, fill in purchase information. 3. Notice of successful order 4. End of the ordering process 	
Sub Flows	Customers can update the quantity of products before making a purchase or change the shipping address, choose the shipping method and choose a payment method.	
Alternate/Exceptional flows:	Turn to the order information page to check the customer's order.	

2.3.4 Product management

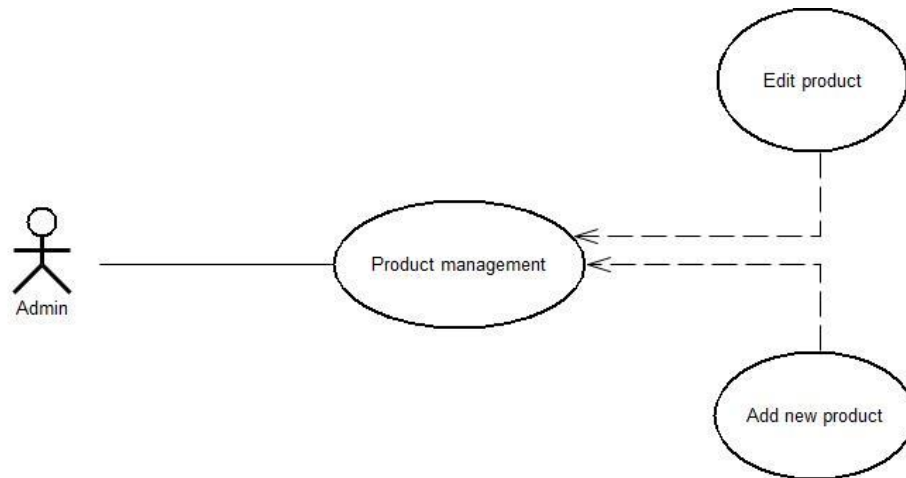


Image 8 Product management

Usecase: Product management		
Purpose	Allow admin to manage information products.	
Brief Description	<ul style="list-style-type: none"> - After logging in, the admin system can manage product information 	Priority: Essential
		Complexity: High
Actor	Admin	
Ingredients and concerns	Admin wants to see product list. Proceed to add, edit, delete and related information.	
Relationship	<ul style="list-style-type: none"> + Association: admin + Include: Login + Extend: View product list, add new product, edit product information, delete product + Generalization: Null 	
Trigger Event	Log in to the system with the admin account	
Basic Flow	<ol style="list-style-type: none"> 1. Admin login to the system. 2. Select a product management category to view the product list and perform the following functions: <ul style="list-style-type: none"> - Add new product: Enter full information on the form and click "add" button to add new product 	

	<ul style="list-style-type: none"> - Edit product information: edit necessary information and save - Delete product: Select the product you want to delete, click "delete" and confirm the deletion <p>3. End the event.</p>
Sub Flows	None
Alternate/Exceptional flows:	Notice the successful or failed operation.

2.3.5 Order management

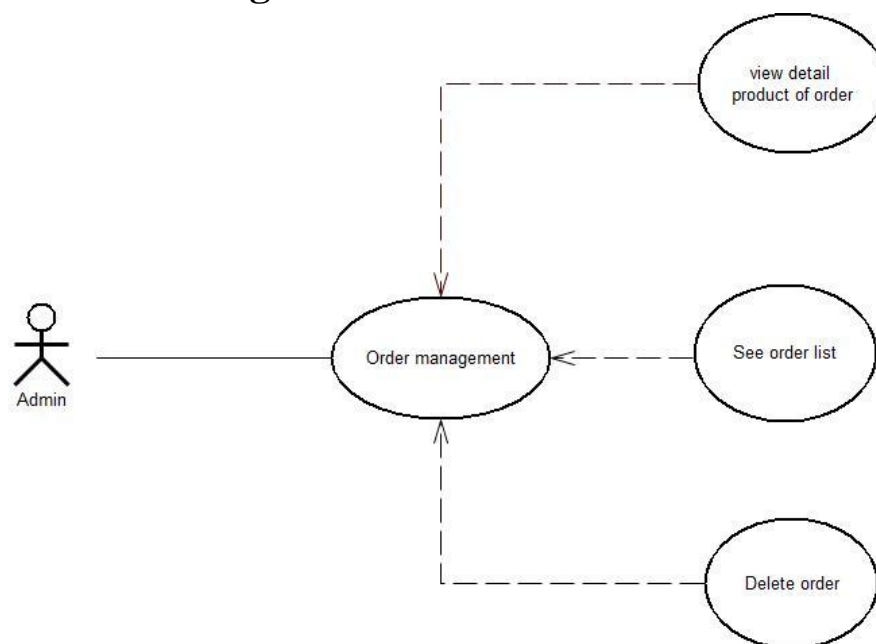


Image 9 Order management

Usecase: Order management		
Purpose	Allow admin to manage order.	
Brief Description	<ul style="list-style-type: none"> - After admin login in the system, admin can manage order 	Priority: Essential
		Complexity: High
Actor	Admin	
Ingredients and concerns	Admin wants to see information order and can delete it	
Relationship	<ul style="list-style-type: none"> + Association: admin + Include: Login 	

	+ Extend: View order list, delete order + Generalization: Null
Trigger Event	Log in to the system with the admin account
Basic Flow	1. Admin login to the system. 2. Select a order management to view the order list and perform the following functions: Deleteorder: Select the order you want to delete, click "delete" 3. End the event.
Sub Flows	None
Alternate/Exceptional flows:	Notice the successful or failed operation.

2.3.6 Account management

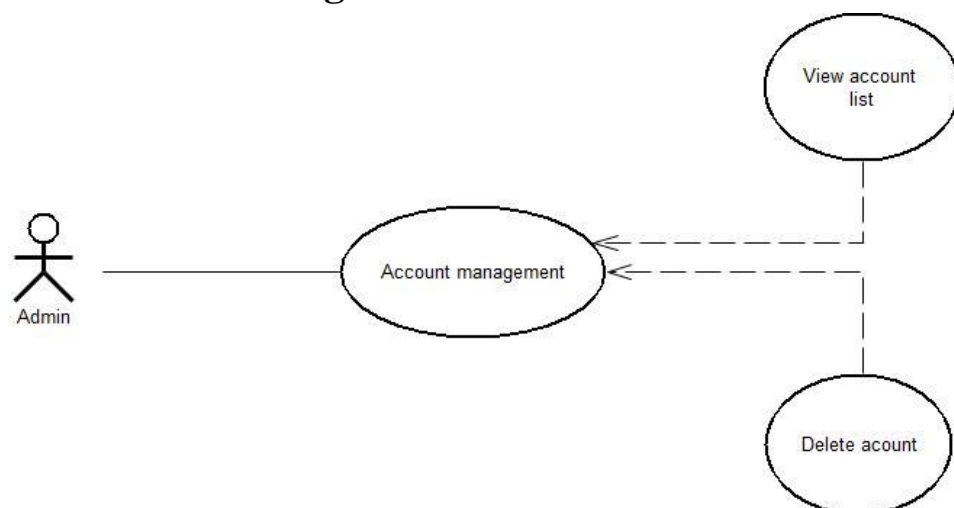


Image 10 Account management

Usecase: Account management		
Purpose	Allow admin to manage account user.	
Brief Description	- After admin login in the system, admin can manage account user	Priority: Essential
		Complexity: High
Actor	Admin	
Ingredients and concerns	Admin wants to see account user and can delete it	
Relationship	+ Association: admin	

	<ul style="list-style-type: none"> + Include: Login + Extend: View account list, delete account user + Generalization: Null
Trigger Event	Log in to the system with the admin account
Basic Flow	<ul style="list-style-type: none"> 4. Admin login to the system. 5. Select a user management to view the account user list and perform the following functions: Delete account user: Select the account user you want to delete, click "delete" 6. End the event.
Sub Flows	None
Alternate/Exceptional flows:	Notice the successful or failed operation.

2.3.7 Search

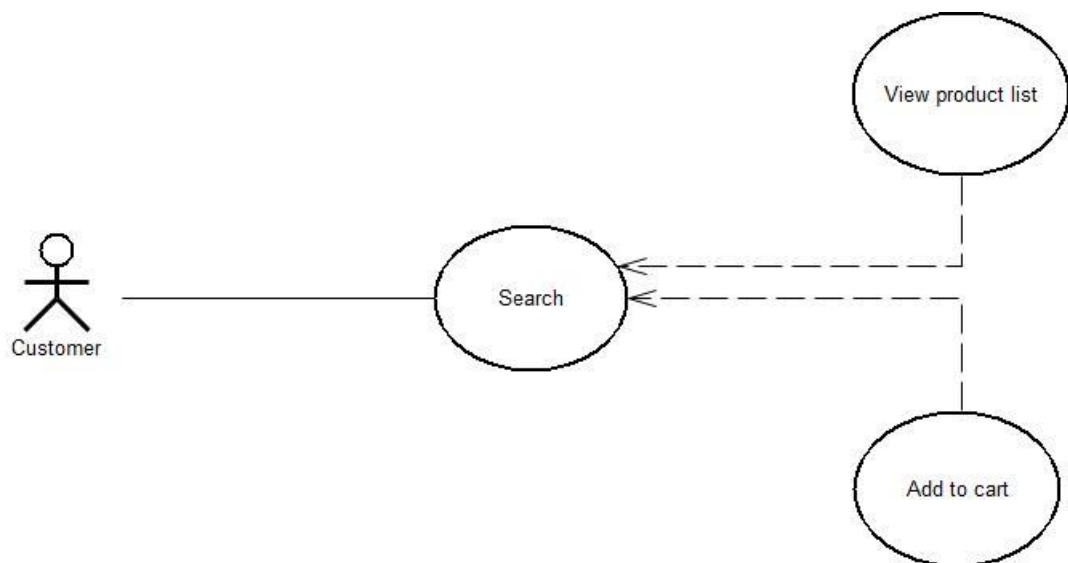


Image 11 Search

Usecase: Search		
Purpose	Help customers find products	
Brief Description	- The users can find the product that they want.	Priority: Essential
		Complexity: High
Actor	User	
Ingredients and concerns	User wants to find a list of product	

Relationship	+ Association: Null + Include: Null + Extend: View a list of product + Generalization: Null
Trigger Event	Input key word into search bar
Basic Flow	1. Select search in header: - Input information - Enter 2. End the event.
Sub Flows	None
Alternate/Exceptional flows:	Notice the successful or failed operation.

2.3.8 Log out



Image 12 Logout

Usecase: Log out		
Purpose	Allow users to log out of the system.	
Brief Description	Users to log out of the system.	Priority: Essential
		Complexity: High
Actor	User	
Ingredients and concerns	User want to end the session and log out of the system	
Relationship	+ Association: customer, admin + Include: Log in + Extend: Null + Generalization: Null	
Trigger Event	The user is logged in	
Basic Flow	1. The user clicks "log out". 2. The system log out of the account, delete the archiving section, the logout from the system must execute the user request and return the results of the execution.	

	3. End the event
Sub Flows	None
Alternate/Exceptional flows:	None

2.4 User interface

2.4.1 Homepage

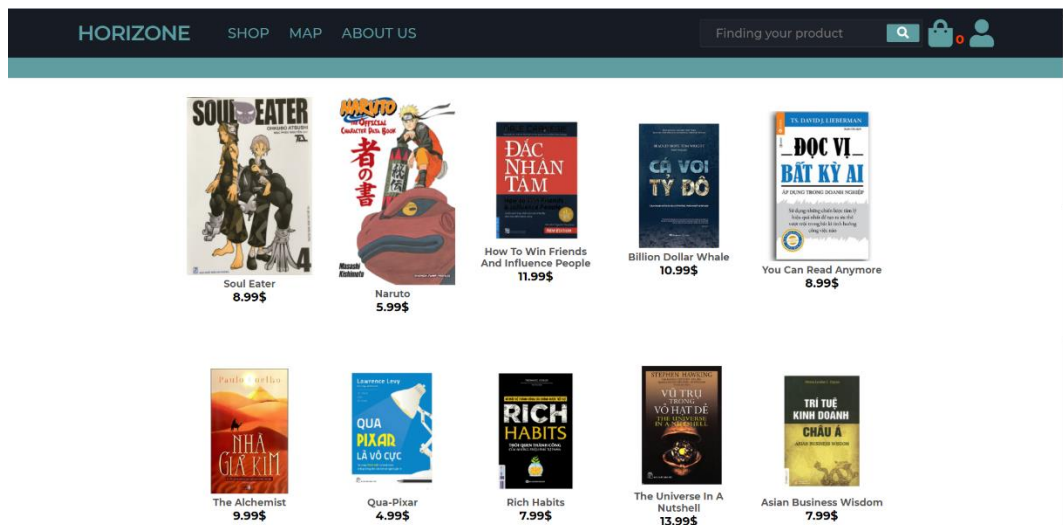


Image 13 Homepage

2.4.2 View detail product

Click on product to view detail of product

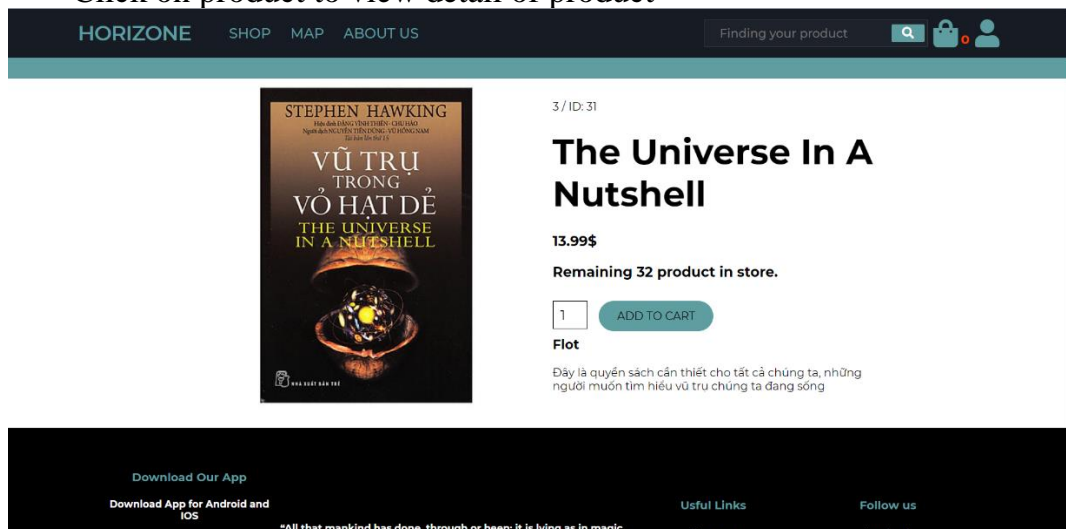


Image 14 Detail product

2.4.3 View cart

Click on “Add to cart” in detail product page to add product into cart.

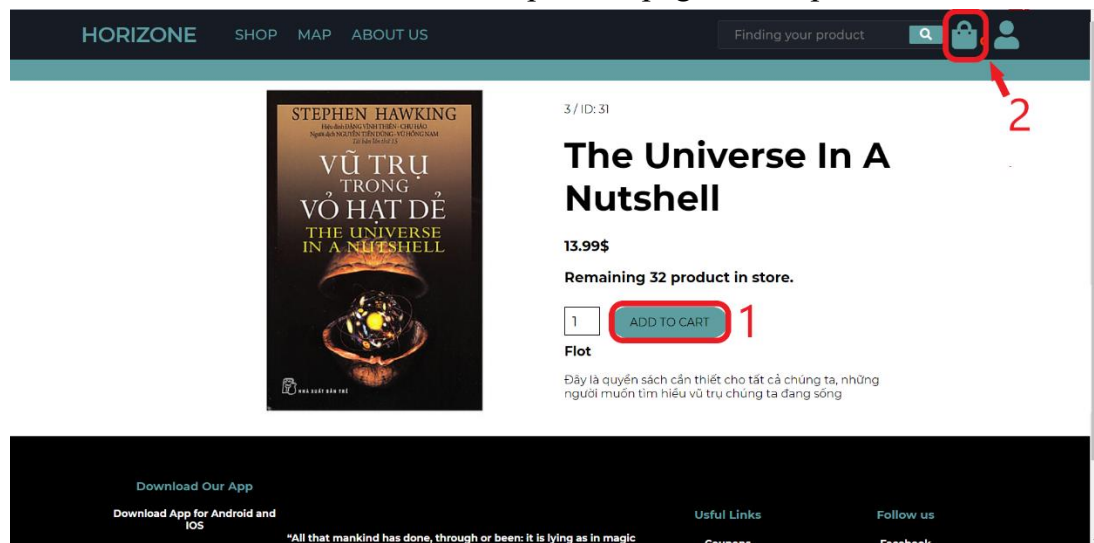


Image 15 Add product into cart

View cart

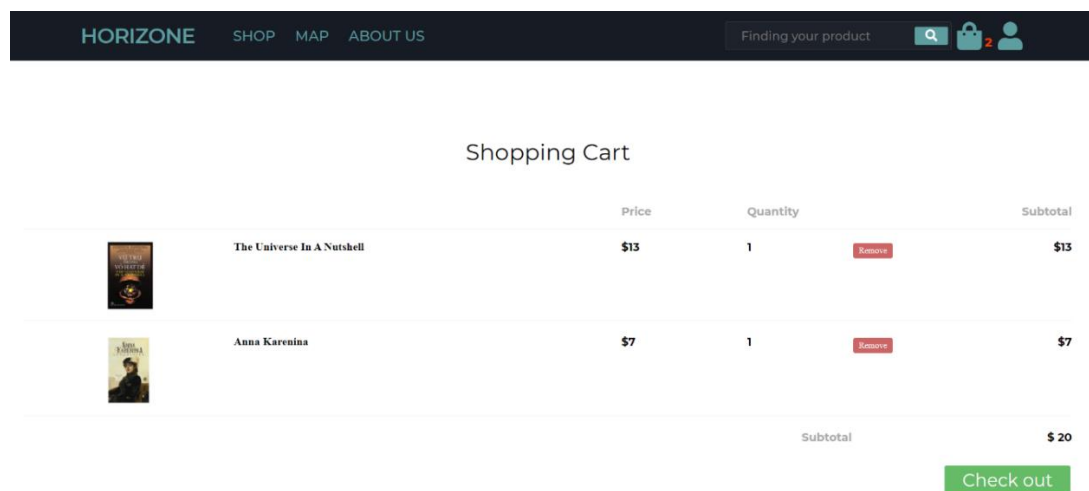


Image 16 View cart

Check out

Fill the form below to complete your order!

Billing Address	
Full Name	Nguyen Dang
Email	nguyendang.c2@gmail.com
Address	Lê Bình, Cái Răng
City	Cần Thơ
Phone	0939359108
SUBMIT	

1	
Sons and Lovers	2\$ x 1
Shipping	5\$
Total	7
Point	0.7

Image 17 Form checkout

2.4.4 Login

LOG HORIZON

Login Register

Username

Password

Login

Download Our App

Download App for Android and IOS

Download on the App Store

GET IT ON Google Play

"All that mankind has done, through or been: it is lying as in magic preservation in the pages of book"

Useful Links

Coupons
Blog Posts
Return Policy

Follow us

Facebook
Instagram
Zalo

Image 18 Login page

2.4.5 Management page

Interface Admin page

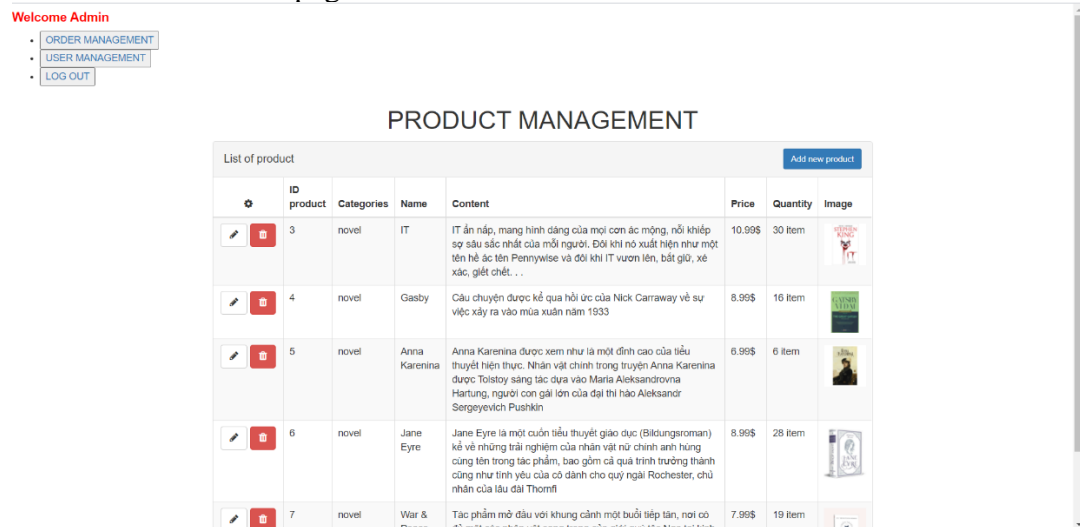


Image 19 Admin page

Add new product

Fill on the filed to add new product

PRODUCT NAME

PRODUCT DESCRIPTION

PRODUCT CATEGORY

AVAILABLE QUANTITY

PRICE

the-space-between-us.jpg

Image 20 Form add new product

Edit product

Update product

ID product	Categories	Name	Content	Price	Quantity	Image
31	self-help	The Universe In A Nutshell	Đây là quyển sách cần thiết cho tất cả chúng ta, những người muốn tìm hiểu vũ trụ chúng ta đang sống	13.99\$	30 Item	
	Select ▼	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Choose File

Image 21 Form update product

Manage order detail

ORDER MANAGEMENT


Full Name	Address	City	Email	Phone	Time order	Point	Details	Delete
nguyen	Lê Bình, Cái Răng	Cần Thơ	nguyendang.ct12@gmail.com	0907801311	2021-06-10 19:59:59	1.4	view	

Image 22 Manage order

Manage account user

USER MANAGEMENT


ID user	User account	Phone	Delete
nguyen	nguyen	0907801311	

Image 23 Manage account user

CHAPTER 3: CONCLUSION

3.1 Result

“Website Selling Book” has reached the goal, created a friendly user interface and easy for user with features such as view product, search product, and cart. With a manager, we have features like manage products (add, delete, update), and manage orders (view orders details).

After this project, I know how to create an E-Commerce website, design UI for website reasonable.

3.2 Restrict

Because I just started designing a website, the interface is still simple and not beautiful.

Website just selling books.

Some features are limited.

3.3 Future work

Improve user interface of website responsive for IOS, and Android.

Integrated online customer care feature.

Integrated statistic for manager.

Variety for website.

REFERENCES

- [1]<https://www.youtube.com/watch?v=yQimoqo0-7g&t=4292s>
- [2]https://www.youtube.com/watch?v=eAK8uYtNTy4&ab_channel=DailyTuitionDailyTuition
- [3]https://www.youtube.com/watch?v=oXrlgOEiy6o&list=PLjwm_8O3suyM_2Lo9aAIw3HqjOPor8j9g&index=4&ab_channel=EasyTutorialsEasyTutorials
- [4]https://www.youtube.com/watch?v=vOXGuNVRGpA&t=128s&ab_channel=EasyTutorialsEasyTutorials
- [5]<https://tuhocict.com/huong-dan-tu-hoc-lap-trinh-php/>
- [6]<https://www.youtube.com/watch?v=YloyMFPJyV4>
- [7]<https://www.dropbox.com/s/cpkgo60du513k48/web-programming-ct214H-lab3-php1.pdf?dl=0>
- [8]<https://www.w3schools.com>