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# REVIEW 2

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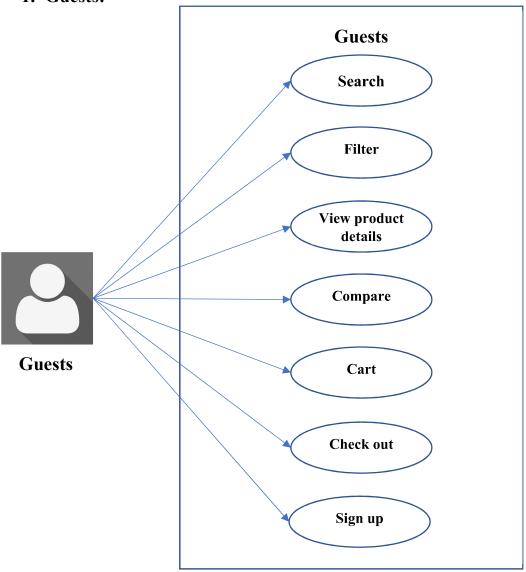
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# I. Use Case and Sequence Diagram:

## 1. Guests:

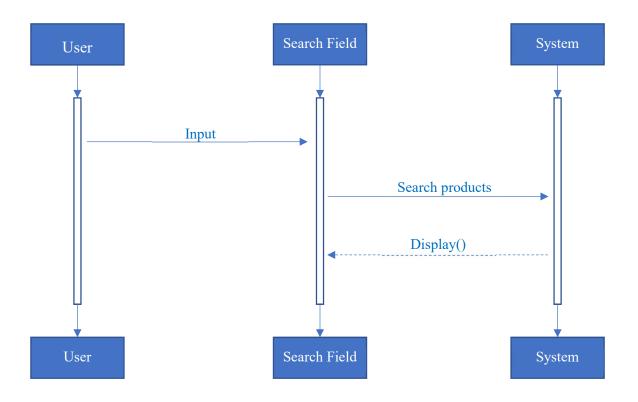


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#### a. Search

# a.1. Auto complete:

Author	Nguyen Ngoc Thang		
<b>Use Case Name</b>	Search – Auto complete		
Actors	Guests and Members		
Description	Display products which have names cont	ain string in search field	
Requirements	Search result appear in a panel right below the search field, which contains name and products' image		
<b>Pre-conditions</b>			
Post-conditions			
	Actor Actions	System Responses	
Basic flow	1. Typing in search field	<ol> <li>Create an empty list to contain search result.</li> <li>Search in Products table to find products which have names contain the search string (ignore case) and add them to result list.</li> <li>Display the result list in a panel right below the search field.</li> </ol>	
Alternative flow		_	
Exception			

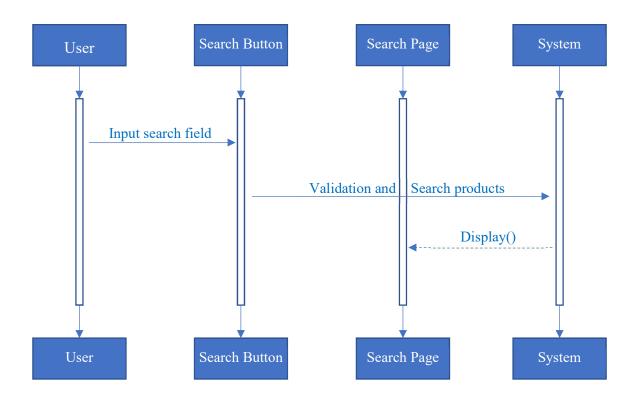


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#### a.2. Search button:

Author	Nguyen Ngoc Thang		
<b>Use Case Name</b>	Search – Search button		
Actors	Guests and Members		
Description	When search button is clicked, search res	sult page will be displayed with result	
_	list of products and their information.		
Requirements	Search string can not be blank.		
	Actor Actions System Responses		
Basic flow	1. Actor input search string and click on	2. System check the search string	
	search button.	[Exception 1]	
		3. System create an empty list to	
	contain search result.		
	4. Search in Products table to find		
	products which have names contain		
	the search string (ignore case) and		
	add them to result list.		
		4. Display the result list in the search	
	result page.		
Exception	1. Actor left the search string empty	1. An error message will be display:	
		"Search string can not be empty"	

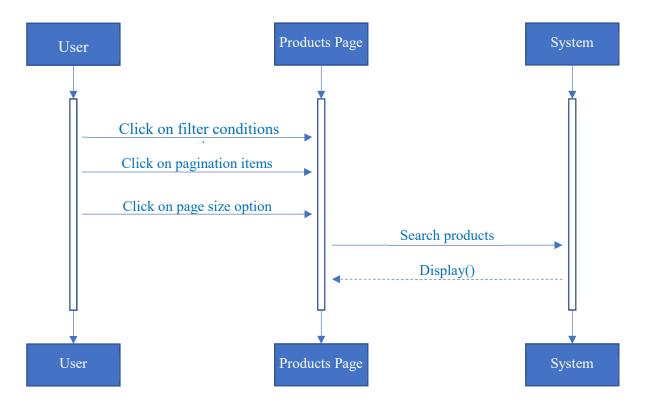


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#### b. Filter

Author	Nguyen Ngoc Thang		
<b>Use Case Name</b>	Filter		
Actors	Guests and Members		
Description	Allows customers view all products whi	ch are in the same categories, types,	
	brands or have prices in special range.	Products will be displayed with the	
	pagination.		
Requirements	Links of Brands, Categories, Types must	be clicked, or range of prices must be	
	chosen.		
	Actor Actions System Responses		
	Actor Actions	System Responses	
Basic flow	Actor Actions 1. Clicks on links of Brands, Categories,	System Responses  2. Receive parameters passing with	
Basic flow			
Basic flow	1. Clicks on links of Brands, Categories,	2. Receive parameters passing with	
Basic flow	1. Clicks on links of Brands, Categories,	2. Receive parameters passing with the links and search products which	
Basic flow	1. Clicks on links of Brands, Categories,	2. Receive parameters passing with the links and search products which have Brands or Categories or Types	
Basic flow	1. Clicks on links of Brands, Categories,	2. Receive parameters passing with the links and search products which have Brands or Categories or Types or Prices satisfied with the	

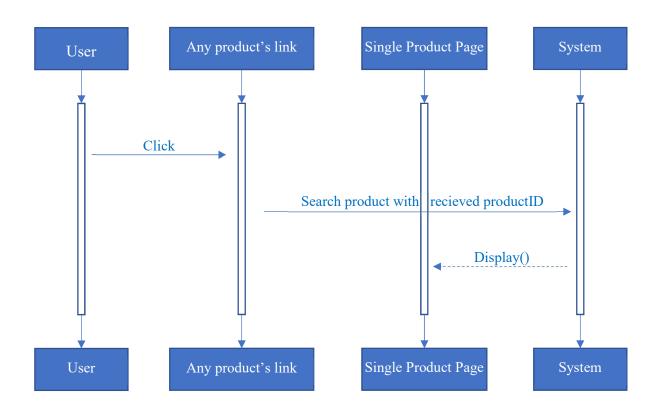


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c. View product details

Author	Nguyen Ngoc Thang		
<b>Use Case Name</b>	View product details		
Actors	Guests and Members		
Description	When customers click on any products' link, a page will display to show all		
	products' information.		
	Actor Actions	System Responses	
Basic flow	1. Clicks on products' links	2. Receive parameters passing with	
		the links and search products which	
		have productID satisfied with the	
		parameters.	
		3. Display the details in the	
		singleProduct page.	

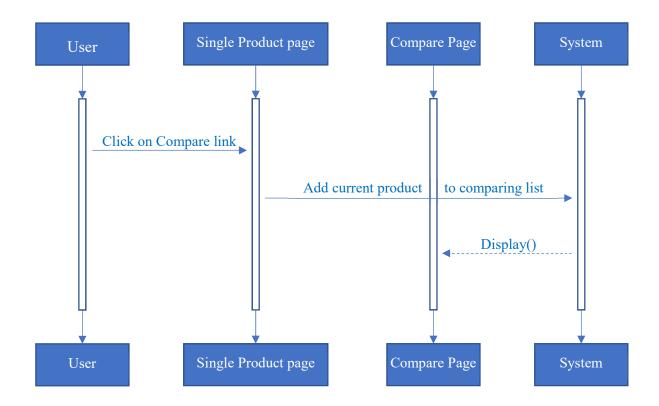


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# d. Compare d.1. Add:

Author	Le Huu Bay		
<b>Use Case Name</b>	Compare - Add		
Actors	Guests and Members		
Description	When a customer clicks on "Compare" lin	When a customer clicks on "Compare" link in singleProduct page, compare	
	page will appear to display all compared p	products include added products.	
	Actor Actions System Responses		
Basic flow	1. Clicks on "Compare" link in	2. Check the number of compared	
	singleProduct page.	products:	
	+ if it equals 5, system disable the		
	compare link and display a text		
	"Reach the limit of 5 compared		
		products".	
		+ else, system add the product to	
		compared products and display	
		compare page.	

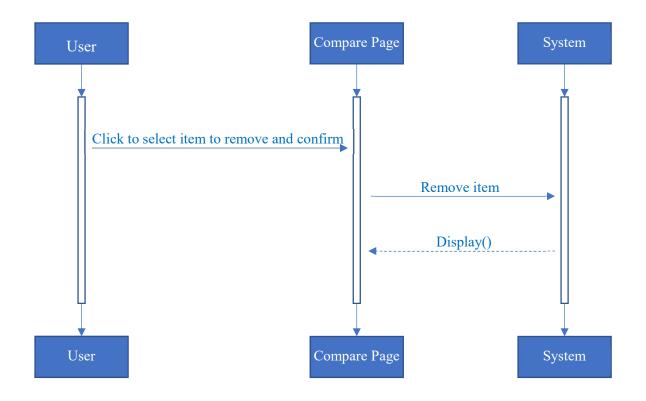


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#### d.2. Remove:

Author	Nguyen Ngoc Thang		
<b>Use Case Name</b>	Compare - Remove		
Actors	Guests and Members		
Description	When customer clicks on remove links and choose "Yes" to confirm, the		
	selected product will be remove from the compared list.		
	Actor Actions System Responses		
Basic flow	1. Clicks on remove link of compared	2. Display 2 buttons: "Yes" and "No"	
	product in the compare page.	for customer confirm the removing.	
	3. Clicks on "Yes" to confirm.	4. Remove selected product from the	
		compared list and display compare	
		page with updated list.	
Alternative flow	5. Clicks on "No".	6. The 2 buttons disappear.	

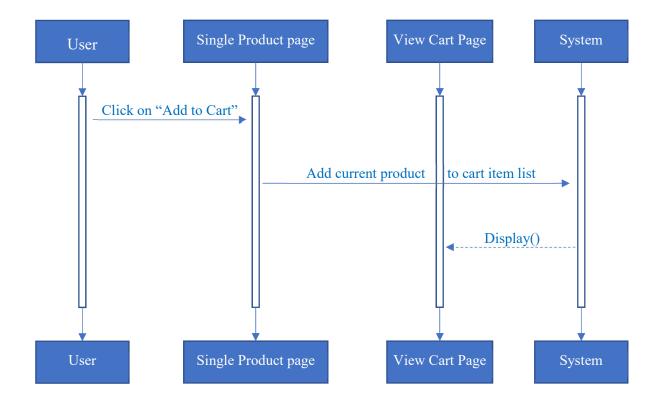


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#### e. Cart e.1. Add:

Author	Nguyen Ngoc Thang	
<b>Use Case Name</b>	Cart – Add	
Actors	Guests and Members	
Description	When customers select the quantity and cl	icks on "Add to Cart" in singleProduct
_	page, the current product will be added/u	pdated into list of cart items, and cart
	page will be displayed with all cart items.	
	Actor Actions	System Responses
Basic flow	1. Selects the quantity and clicks on	2. Check the added product:
	"Add to Cart".	+ If existed in cart, system will add
	the quantity to the existed item's	
	quantity.	
	+ Else, system will add the product	
	with the selected quantity into the list	
		of cart items.
		3. Display the cart page with all
		updated cart items.

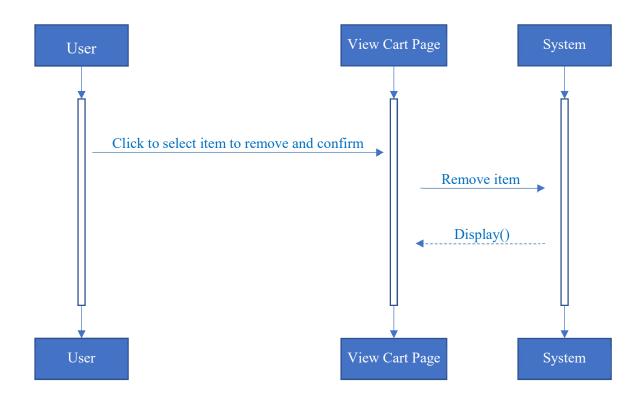


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#### e.2. Remove

Author	Nguyen Ngoc Thang		
<b>Use Case Name</b>	Cart – Remove		
Actors	Guests and Members		
Description	When customers clicks on remove links and choose "Yes" to confirm, the		
	selected product will be remove from the list of cart items.		
	Actor Actions System Responses		
Basic flow	1. Clicks on remove link of cart items in	2. Display 2 buttons: "Yes" and "No"	
	the cart page.	for customer confirm the removing.	
	3. Clicks on "Yes" to confirm.	4. Remove selected product from the	
		list of cart items and display cart page	
		with updated list.	
Alternative flow	5. Clicks on "No".	6. The 2 buttons disappear.	

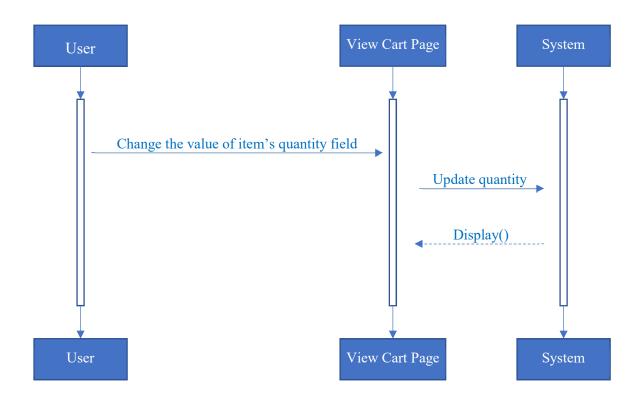


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## e.3. Update quantity:

Author	Nguyen Ngoc Thang			
<b>Use Case Name</b>	Cart – Update quantity	Cart – Update quantity		
Actors	Guests and Members			
Description	When customers input quantity field of ca	rt item, system will update the		
_	quantity, subtotal, total and display cart pa	age with new information		
Requirements	Quantity must be greater than 0.			
	Actor Actions System Responses			
Basic flow	1. Updates new number in the quantity	2. Check the new quantity		
	field.	[Exception 1]		
		3. Update new quantity, subtotal and		
		total of cart items.		
	4. Display cart page with new			
	information.			
Exception	[Exception 1]			
_	1. Actor input a number less than 0.	- Display error message "Quantity		
	_	must be greater than 0".		
	2. Actor input a string not in number	- Display error message "Quantity is		
	format	not in number format".		



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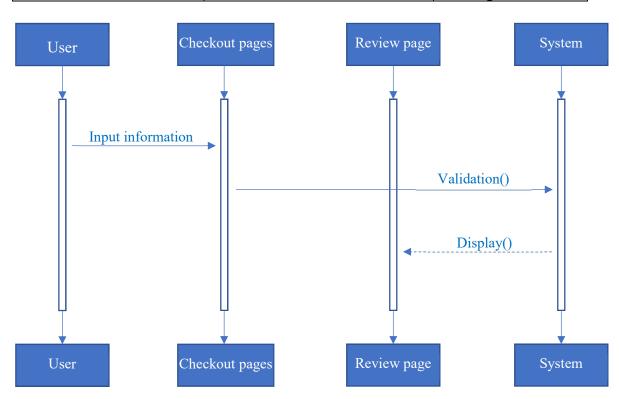
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# f. Check out f.1. Input information

Author	Le Huu Bay		
<b>Use Case Name</b>	Checkout – Input information		
Actors	Guests and Members		
Description	Display field for customers to input information about shipping and payment		
	method.		
<b>Pre-conditions</b>	List of cart items can not be null.		
	Actor Actions	System Responses	
Basic flow	1. Customers input shipping information	2. System display input filed for	
	(* character means that is a required field)	Shipping information:	
		+ Receiver's name *	
		+ Address *	
		+ Phone *	
		+ Shipping date *	
		+ Note	
	3. Clicks on Continue button to input	4. System check the input	
	Payment method	information [Exception 1]	
		5. Display 3 payment methods:	
		+ Cash on delivery (default)	
	+ Payment by bank transfer (with		
		bank account info)	
		+ Payment by Credit Card with input	
		fields for card info (all is required):	
		Number, CCV/CVV, Name,	
		Expiration date.	
		7. System check the input	
	6. Clicks on Continue button to review	information [Exception 2]	
	order	8. Display review page with all	
		information about the order.	
Exception	[Exception 1]	Display error message:	
	1. Actor left Receiver's name blank.	- "Receiver's name can not be blank"	
	2. Actor left Address blank.	- "Address can not be blank"	
	3. Actor left Phone blank.	- "Phone can not be blank"	
	4. Actor left Shipping date blank.	- "Shipping date can not be blank"	
	5. Actor input Shipping date which was	- "Shipping Date must be at least 3	
	not greater than current date + 3 days.	days from today"	
	[Exception 2]		
	If actor choose to pay by Credit card:		
	6. Actor left the Number blank.	- "Number can not be blank"	
	7. Actor left the CVV/CCV blank.	- "CVV/CCV can not be blank"	
	8. Actor left the Name blank.	- "Name can not be blank"	
	9. Actor left the Expiration date blank	- "Expiration date can not be blank"	

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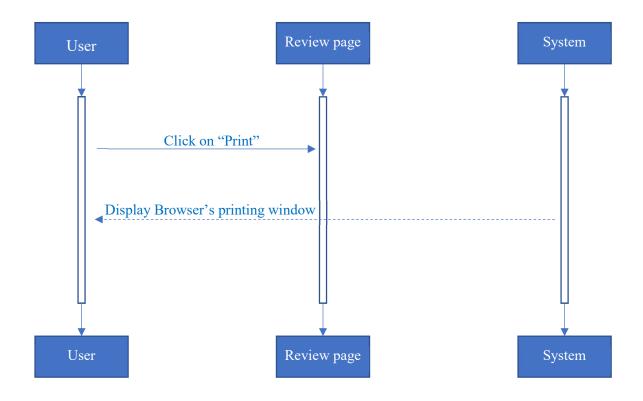


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#### f.2. Print order:

Author	Le Huu Bay	
<b>Use Case Name</b>	Checkout – Print order	
Actors	Guests and Members	
Description	Allow customers to print all information about the order	
	Actor Actions System Responses	
Basic flow	1. Clicks on Print button	<ul><li>2. Display the Browser's printing window which allow to print page via a printer or to a pdf file.</li><li>3. After printing, display the current review page.</li></ul>

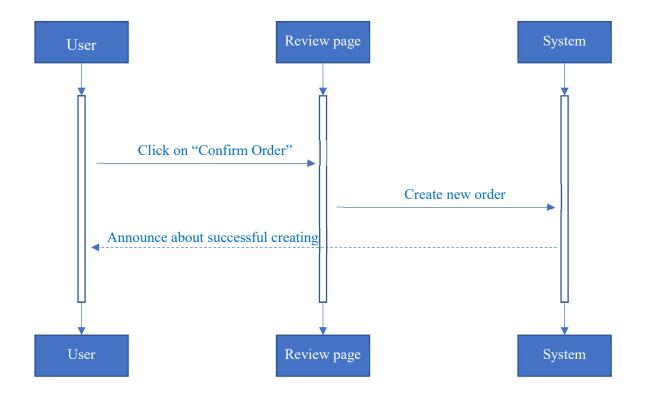


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#### f.3. Confirm order:

Author	Le Huu Bay		
<b>Use Case Name</b>	Checkout – Confirm order		
Actors	Guests and Members		
Description	Customers click on Confirm Order button to make the order, if success, an		
	announcement will be displayed.		
	Actor Actions System Responses		
Basic flow	1. Clicks Confirm Order button	2. Create new data in Orders and	
		Orders Details tables.	
		3. Display an announcement to	
		inform about the successful order.	

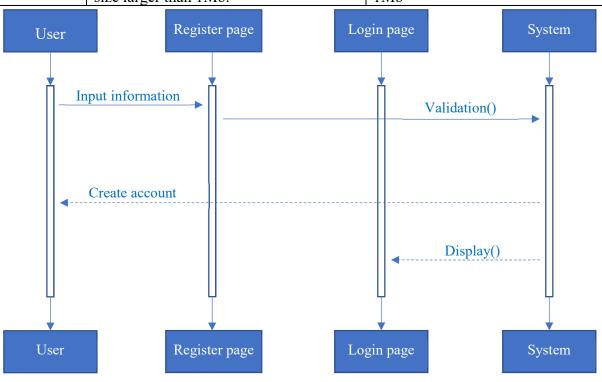


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g. Sign up

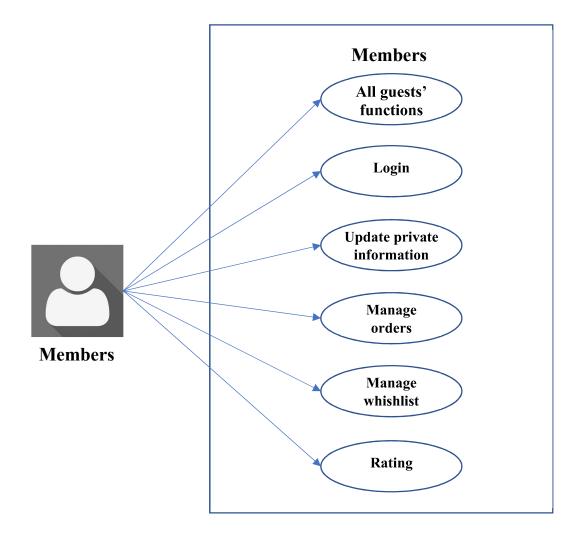
Author	Nguyen Thanh Hau		
<b>Use Case Name</b>	Sign up		
Actors	Guests		
Description	Guest wants to sign up with the website to	become a member.	
	Actor Actions	System Responses	
Basic flow	1. Input information, select avatar and	2. Check the information	
	clicks on Submit button	[Exception 1]	
		3. Create customer account	
		4. Display login page.	
Exception	[Exception 1]	Display error message:	
	1. Actor left First Name blank	1. "First Name can not be blank"	
	2. Actor left Last Name blank	2. "Last Name can not be blank"	
	3. Actor left Phone Number blank	3. "Phone Number can not be blank"	
	4. Actor left Gender blank	4. "Gender can not be blank"	
	5. Actor left Email blank	5. "Email can not be blank"	
	6. Email is in wrong format.	6. "Email is in wrong format"	
	7. Password length is less than 3.	7. "Password length must be greater	
		than 3"	
	8. Confirm Password does not match with	8. "Confirm Password does not	
	Password	match with Password"	
	9. Actor select a non-image file for	9. "Selected file is not an image file"	
	Avatar		
	10. Actor select an image file which has	10. "Image file's size is larger than	
	size larger than 1Mb.	1Mb"	



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#### 2. Members:

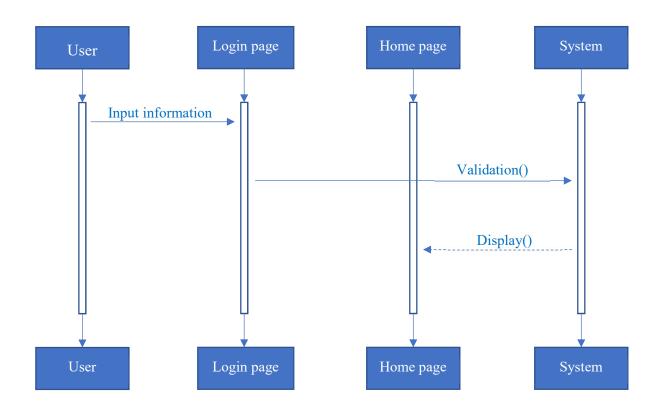


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a. Login

Author	Nguyen Thanh Hau		
<b>Use Case Name</b>	Login		
Actors	Members		
Description	Customers log in with their registered email and password.		
	Actor Actions System Responses		
Basic flow	1. Input email and password and clicks on	2. System check email and password	
	Submit button	[Exception 1]	
		3. System tracks the user's	
		information and display Home page	
Exception	[Exception 1]	Display error message:	
	1. Actor left the Email blank	- "Email can not be blank"	
	2. Actor left the Password blank	- "Password can not be blank"	
	3. Actor inputs wrong email or password	- "Wrong email or Password"	



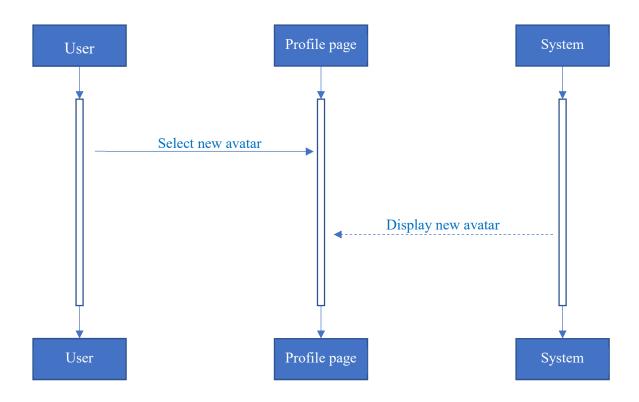
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# **b.** Update private information

# b.1. Change avatar:

Author	Nguyen Thanh Hau		
<b>Use Case Name</b>	Update private information – Change avatar		
Actors	Members		
Description	Customers click select new image file to c	hange their avatars	
Requirements	Login as member		
	Actor Actions System Responses		
Basic flow	1. Clicks on Change Avatar button and	2. Display the avatar replaced with	
	select new image file	new image	
		[Exception 1]	
Exception	[Exception 1]	Display error message:	
	1. Actor select a non-image file for	1. "Selected file is not an image file"	
	Avatar		
	2. Actor select an image file which has	2. "Image file's size is larger than	
	size larger than 1Mb.	1Mb"	

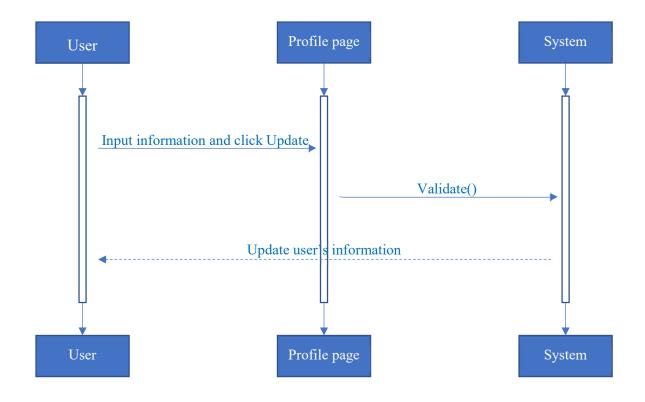


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# **b.2.** Update information:

Author	Nguyen Thanh Hau	
<b>Use Case Name</b>	Update information	
Actors	Members	
Description	Customers want to change their private in	formation
Requirements	Login as member	
	Actor Actions	System Responses
Basic flow	1. Actors change Avatar, First Name,	2. System check information
	Last Name, Phone, Gender.	[Exception 1]
		3. Update new information to data in
		Customers table.
Exception	[Exception 1]	Display error message:
	1. Actor left First Name blank	1. "First Name can not be blank"
	2. Actor left Last Name blank	2. "Last Name can not be blank"
	3. Actor left Phone Number blank	3. "Phone Number can not be blank"
	4. Actor left Gender blank	4. "Gender can not be blank"

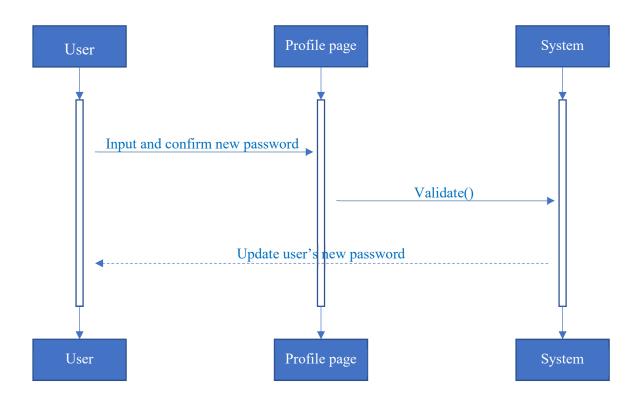


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# b.3. Change password:

Author	Nguyen Thanh Hau		
<b>Use Case Name</b>	Update information – Change password		
Actors	Members		
Description	Customer want to change the registered pa	ssword	
Requirements	Login as members		
	Actor Actions	System Responses	
Basic flow	1. Input Old Password, New Password	2. Check information	
	and Confirm Password	[Exception 1]	
		3. Update New Password into	
		Customers table	
Exception	[Exception 1]	Display error message:	
	1. Old Password is wrong.	- "Old Password is wrong"	
	2. New Password length is less than 3	- "New Password length is less than	
		3"	
	3. Confirm Password does not match with	- "Confirm Password does not match	
	New Password	with New Password"	



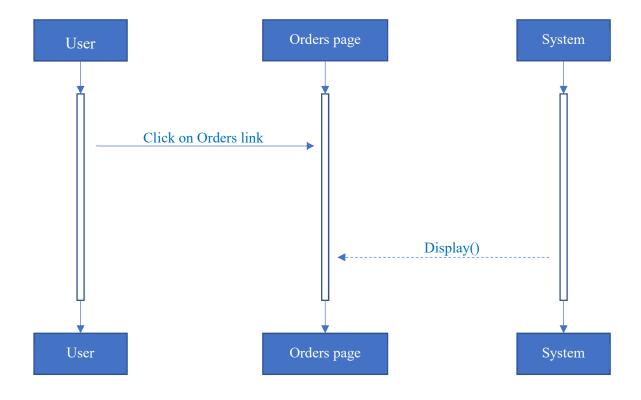
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# c. Manage orders

## c.1. View all orders:

Author	Le Huu Bay	
<b>Use Case Name</b>	Search – Search button	
Actors	Members	
Description	Customers can view all orders they made	
Requirements	Login as member	
	Actor Actions	System Responses
Basic flow	1. Clicks on Orders page link	2. System search all Orders and
		Orders Details which satisfy the
		current customerID and display in
		Orders page.

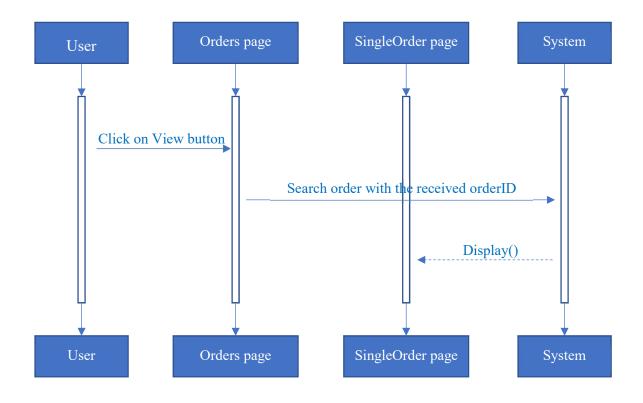


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#### c.2. View order details:

Author	Le Huu Bay		
<b>Use Case Name</b>	Search – Search button		
Actors	Members		
Description	Customers can click on every order to view its details		
Requirements	Login as member		
	Actor Actions System Responses		
Basic flow	1. Clicks on View button on Orders page 2. Search data in Orders Details table		
	which satisfy with selected orderID.		
	3. Display all searched data in		
		SingleOrder page.	



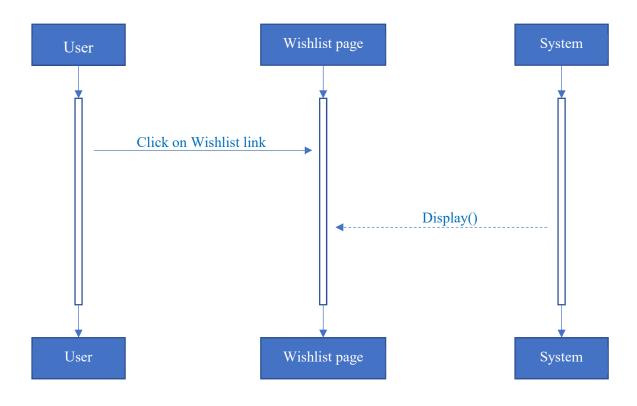
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# d. Manage wishlist

## d.1. View all wishlist items:

Author	Nguyen Thanh Hau	
<b>Use Case Name</b>	Manage wishlist – view all wishlist items	
Actors	Members	
Description	Customers can review their wishlist	
Requirements	Login as member	
	Actor Actions	System Responses
Basic flow	1. Clicks on Wishlist link	<ul><li>2. Search all data in Wishlist table which satisfy with current customerEmail.</li><li>3. Display searched data in Wishlist page.</li></ul>

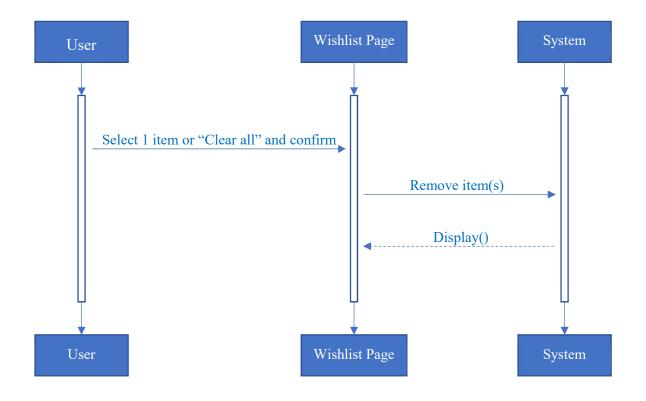


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#### d.2. Remove wishlist items

Author	Nguyen Thanh Hau		
<b>Use Case Name</b>	Manage wishlist – remove wishlist items		
Actors	Members		
Description	Customers can remove items in their wishlists		
Requirements	Login as member		
	Actor Actions System Responses		
Basic flow	1. Clicks on Remove/Clear All button	2. Display 2 buttons: "Yes" and "No"	
	3. Clicks on "Yes" to confirm removing	4. Remove chosen item(s) from	
	_	wishlist and data in Wishlist table.	
	5. Clicks on "No" to cancel removing	6. Hide the 2 buttons.	

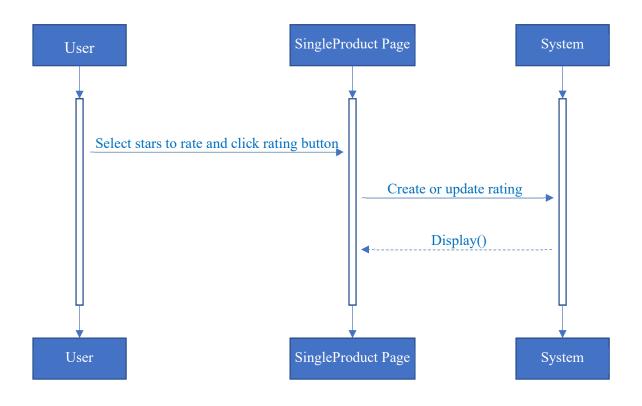


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e. Rating

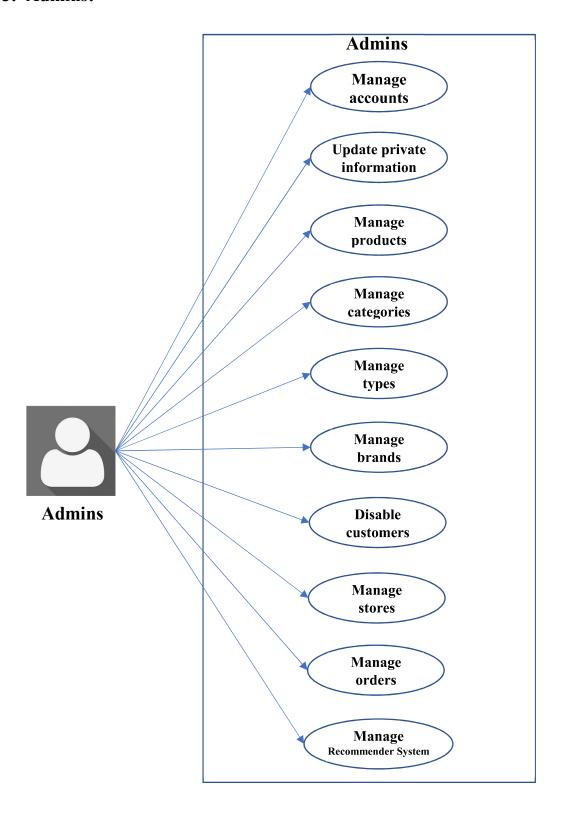
Author	Nguyen Ngoc Thang		
<b>Use Case Name</b>	Rating		
Actors	Members		
Description	Customers want to rate for products (from	1 to 5 stars), if rated, they can view	
	their ratings and can update ratings.		
Requirements	Login as member		
	Actor Actions System Responses		
Basic flow	1. Clicks on stars (include 5 stars) to rate	2. System search in Ratings table to	
	for products and clicks on Submit/Update	find record contains current	
	button	productID:	
		+ if found, update the value of current	
		rating to new rating.	
		+ else, create new record with the	
		current productID and rating values	
		3. Display SingleProduct Page	



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#### 3. Admins:



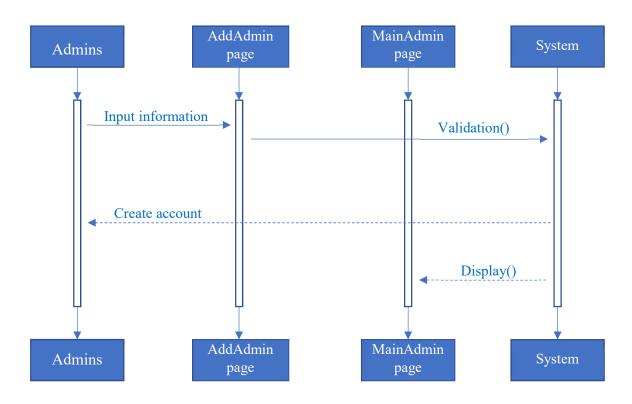
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# a. Manage admin accounts

#### a.1. Add

Author	Nguyen Thanh Hau		
<b>Use Case Name</b>	Manage admin account - Add		
Actors	Admins		
Description	Admins with Manager role can add new ad	dmin accounts for new store's staffs	
Requirements	Login as admins with Manager role		
	Actor Actions System Responses		
Basic flow	1. Input information to input fields:	2. System check the information	
	Email, Full Name, Admin Role, and	[Exception 1]	
	choose an avatar. Then clicks on Create   3. Create admin account		
	button. 4. Display MainAdmin page.		
Exception	[Exception 1]	Display error message:	
	1. Actor left Full Name blank	- "Full Name can not be blank"	
	2. Actor left Email blank	- "Email can not be blank"	
	3. Email is in wrong format.	- "Email is in wrong format"	

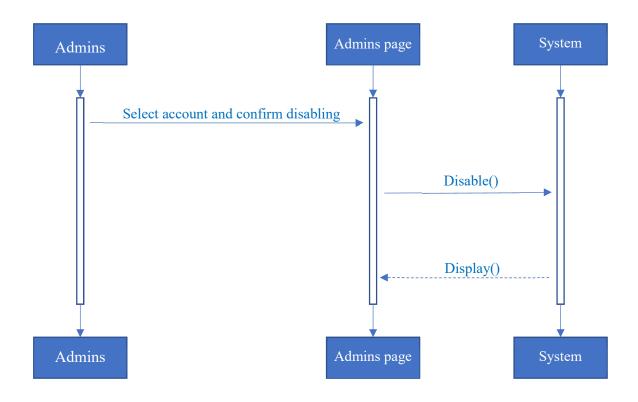


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#### a.2. Disable account

Author	Nguyen Thanh Hau		
<b>Use Case Name</b>	Manage admin account – Disable account		
Actors	Admins		
Description	Admins can disable admin accounts in cases such as employees quit job.		
Requirements	Login as admins		
	Actor Actions System Responses		
Basic flow	1. Clicks on Disable button	2. Display 2 buttons: "Yes" and "No"	
	3. Clicks on "Yes" to confirm disabling	4. Change status value of chosen	
		account to from Admins table.	
	5. Clicks on "No" to cancel disabling	6. Hide the 2 buttons.	
	_	7. Display Admins page	



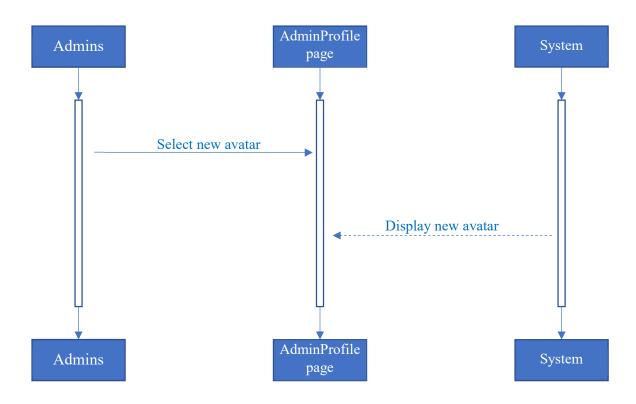
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# b. Update account information

# b.1. Change avatar

Author	Nguyen Thanh Hau		
<b>Use Case Name</b>	Update information – Change avatar		
Actors	Admins		
Description	Admins click select new image file to char	nge their avatars	
Requirements	Login as admins		
	Actor Actions	System Responses	
Basic flow	1. Clicks on Change Avatar button and	2. Display the avatar replaced with	
	select new image file new image		
	[Exception 1]		
Exception	[Exception 1]	Display error message:	
_	1. Actor select a non-image file for	1. "Selected file is not an image file"	
	Avatar		
	2. Actor select an image file which has	2. "Image file's size is larger than	
	size larger than 1Mb.	1Mb"	

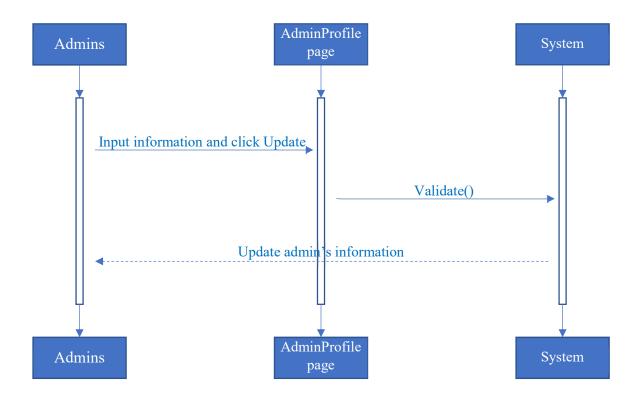


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# **b.2.** Update information

Author	Nguyen Thanh Hau		
<b>Use Case Name</b>	Update information		
Actors	Admins		
Description	Admins want to change their private infor	mation	
Requirements	Login as admin		
	Actor Actions	System Responses	
Basic flow	1. Actors change Avatar, Full Name, if	2. System check information	
	login as Manager role, admins can	[Exception 1]	
	change Admin Role.	3. Update new information to data in	
		Admins table.	
Exception	[Exception 1]	Display error message:	
	1. Actor left Full Name blank	1. "Full Name can not be blank"	

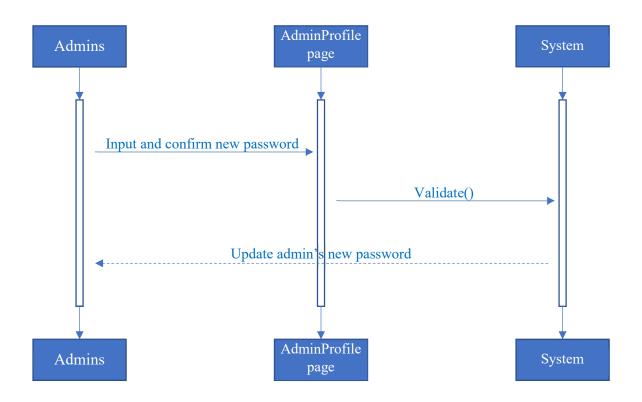


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## b.3. Change password

Author	Nguyen Thanh Hau		
<b>Use Case Name</b>	Update information – Change password		
Actors	Admins		
Description	Admins want to change the registered pass	sword	
Requirements	Login as Admins		
	Actor Actions	System Responses	
Basic flow	1. Input Old Password, New Password	2. Check information	
	and Confirm Password	[Exception 1]	
		3. Update New Password into	
	Admins table		
Exception	[Exception 1]	Display error message:	
	1. Old Password is wrong.	- "Old Password is wrong"	
	2. New Password length is less than 3	- "New Password length is less than	
		3"	
	3. Confirm Password does not match with	- "Confirm Password does not match	
	New Password	with New Password"	



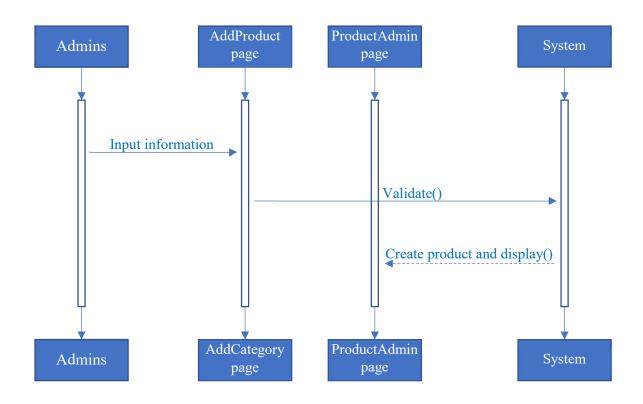
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# c. Manage products

#### c.1. Insert

Author	Le Huu Bay	
<b>Use Case Name</b>	Manage Products – Insert	
Actors	Admins	
Description	Admins want to insert new products	
Requirements	Login as Admins	
	Actor Actions	System Responses
Basic flow	1. Input information to input fields:	2. System check the information
	Product Name, Price, Category, Type,	[Exception 1]
	Brand, 4 Images, Description and	3. Create new product in database
	features. Then clicks on Insert button.  4. Display ProductAdmin page	
Exception	[Exception 1]	Display error message:
	1. Actor left Product Name blank	- "Product Name can not be blank"
	2. Actor left Price blank	- "Price can not be blank"
	3. Actor left Description blank	- "Description can not be blank"

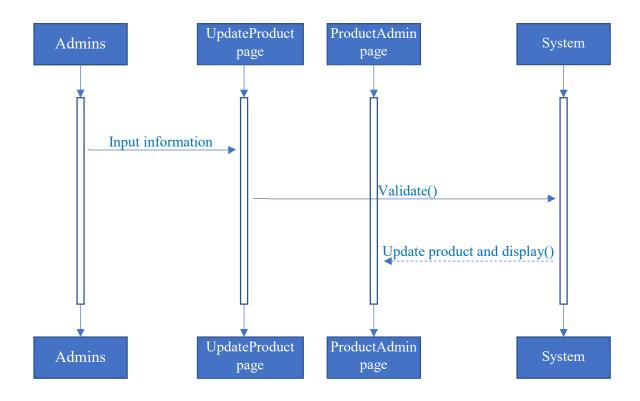


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## c.2. Update

Author	Le Huu Bay	
<b>Use Case Name</b>	Manage Products – Update	
Actors	Admins	
Description	Admins want to update existed products' information	
Requirements	Login as Admins	
	Actor Actions	System Responses
Basic flow	1. Input information to input fields:	2. System check the information
	Product Name, Price, Category, Type,	[Exception 1]
	Brand, 4 Images, Description and	3. Update information in database
	features. Then clicks on Update button.	4. Display ProductAdmin page.
Exception	[Exception 1]	Display error message:
	1. Actor left Product Name blank	- "Product Name can not be blank"
	2. Actor left Price blank	- "Price can not be blank"
	3. Actor left Description blank	- "Description can not be blank"

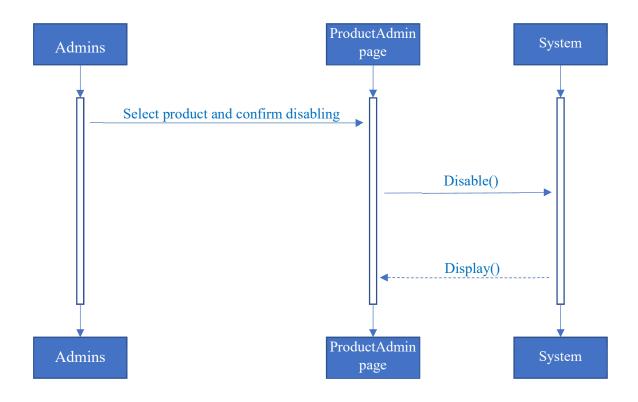


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#### c.3. Disable

Author	Le Huu Bay	
<b>Use Case Name</b>	Manage Products – Disable	
Actors	Admins	
Description	Admins want to disable existed products	
Requirements	Login as Admins	
	Actor Actions	System Responses
Basic flow	1. Clicks on Disable button	2. Display 2 buttons: "Yes" and "No"
	3. Clicks on "Yes" to confirm disabling	4. Change status value of chosen
		product to from Products table.
	5. Clicks on "No" to cancel disabling	6. Hide the 2 buttons.
	_	7. Display ProductAdmin page



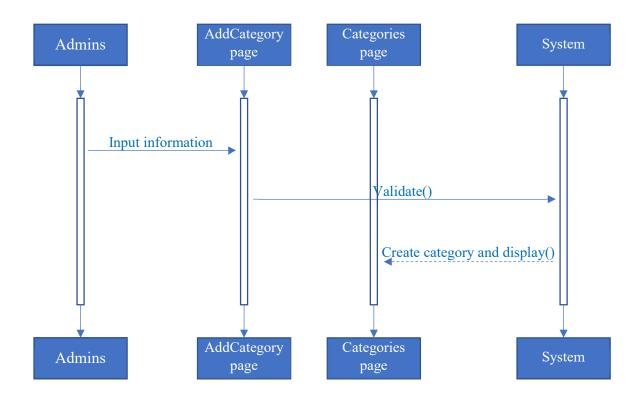
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## d. Manage categories

#### d.1. Insert

Author	Le Huu Bay	
<b>Use Case Name</b>	Manage Categories – Insert	
Actors	Admins	
Description	Admins want to insert new categories	
Requirements	Login as Admins	
	Actor Actions	System Responses
Basic flow	1. Input information to input fields:	2. System check the information
	Category Name and Image. Then clicks	[Exception 1]
	on Insert button.	3. Create new category in database
		4. Display Categories page.
Exception	[Exception 1]	Display error message:
	1. Actor left Category Name blank	- "Category Name can not be blank"

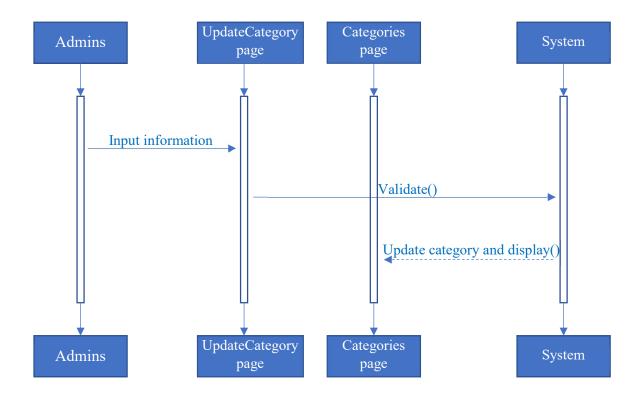


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### d.2. Update

Author	Le Huu Bay	
<b>Use Case Name</b>	Manage Categories – Update	
Actors	Admins	
Description	Admins want to update existed categories' information	
Requirements	Login as Admins	
	Actor Actions	System Responses
Basic flow	1. Input information to input fields:	2. System check the information
	Category Name and Image. Then clicks	[Exception 1]
	on Update button.	3. Update existed category in
		database
		4. Display Categories page.
Exception	[Exception 1]	Display error message:
	1. Actor left Category Name blank	- "Category Name can not be blank"

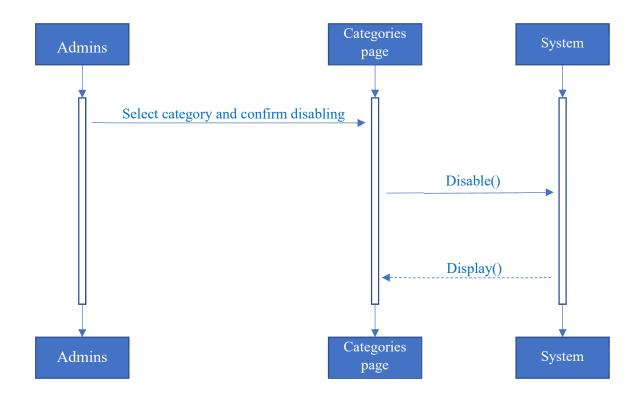


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#### d.3. Disable

Author	Le Huu Bay		
<b>Use Case Name</b>	Manage Categories – Disable		
Actors	Admins		
Description	Admins want to disable existed categories		
Requirements	Login as Admins		
	Actor Actions	System Responses	
Basic flow	1. Clicks on Disable button	2. Display 2 buttons: "Yes" and "No"	
	3. Clicks on "Yes" to confirm disabling	4. Change status value of chosen	
		product to from Categories table.	
	5. Clicks on "No" to cancel disabling	6. Hide the 2 buttons.	
		7. Display Categories page	



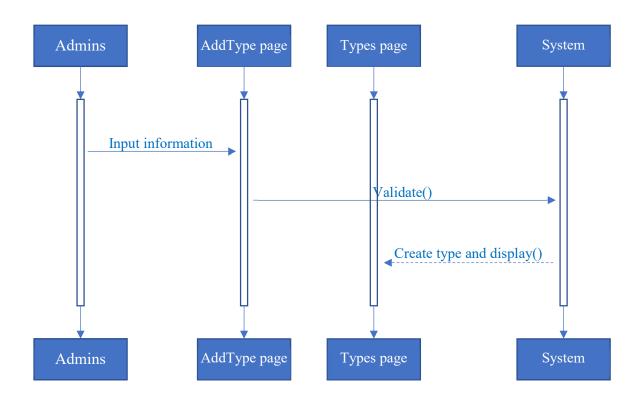
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## e. Manage types

#### e.1. Insert

Author	Nguyen Ngoc Thang	
<b>Use Case Name</b>	Manage Types – Insert	
Actors	Admins	
Description	Admins want to insert new Types	
Requirements	Login as Admins	
	Actor Actions	System Responses
Basic flow	1. Input information to input fields: Type	2. System check the information
	Name and Description. Then clicks on	[Exception 1]
	Insert button.	3. Create new type in database
		4. Display Types page.
Exception	[Exception 1]	Display error message:
	1. Actor left Type Name blank	- "Type Name can not be blank"

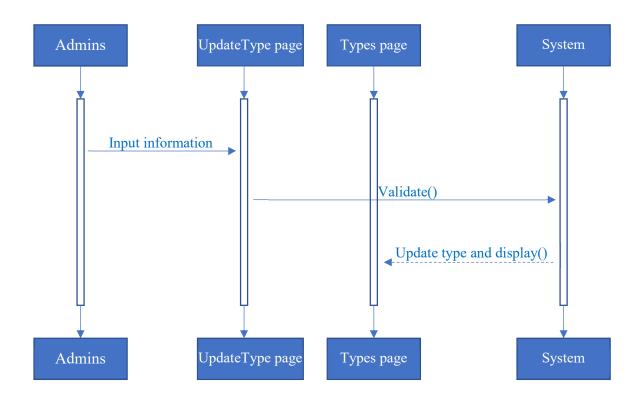


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### e.2. Update

Author	Nguyen Ngoc Thang	
<b>Use Case Name</b>	Manage Types – Update	
Actors	Admins	
Description	Admins want to update existed types' information	
Requirements	Login as Admins	
	Actor Actions	System Responses
Basic flow	1. Input information to input fields: Type	2. System check the information
	Name and Description. Then clicks on	[Exception 1]
	Update button.	3. Update existed type in database
		4. Display Types page.
Exception	[Exception 1]	Display error message:
	1. Actor left Type Name blank	- "Type Name can not be blank"

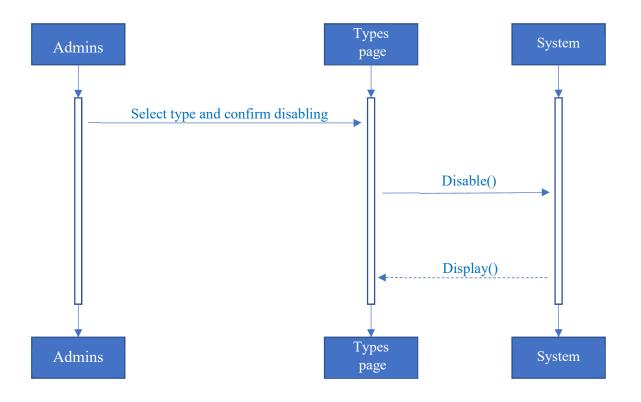


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#### e.3. Disable

Author	Nguyen Ngoc Thang	
<b>Use Case Name</b>	Manage Types – Disable	
Actors	Admins	
Description	Admins want to disable existed types	
Requirements	Login as Admins	
	Actor Actions	System Responses
Basic flow	1. Clicks on Disable button	2. Display 2 buttons: "Yes" and "No"
	3. Clicks on "Yes" to confirm disabling	4. Change status value of chosen
		product to from Types table.
	5. Clicks on "No" to cancel disabling	6. Hide the 2 buttons.
		7. Display Types page



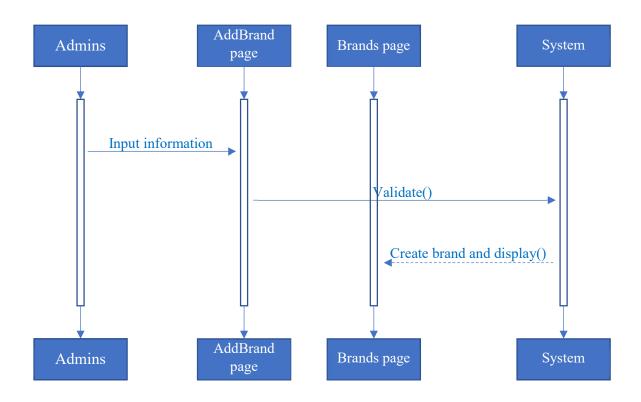
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## f. Manage brands

#### f.1. Insert

Author	Nguyen Ngoc Thang	
<b>Use Case Name</b>	Manage Brands – Insert	
Actors	Admins	
Description	Admins want to insert new Brands	
Requirements	Login as Admins	
	Actor Actions	System Responses
Basic flow	1. Input information to input fields: Brand	2. System check the information
	Name, Image and Description. Then	[Exception 1]
	clicks on Insert button.	3. Create new brand in database
		4. Display Brands page.
Exception	[Exception 1]	Display error message:
	1. Actor left Brand Name blank	- "Brand Name can not be blank"

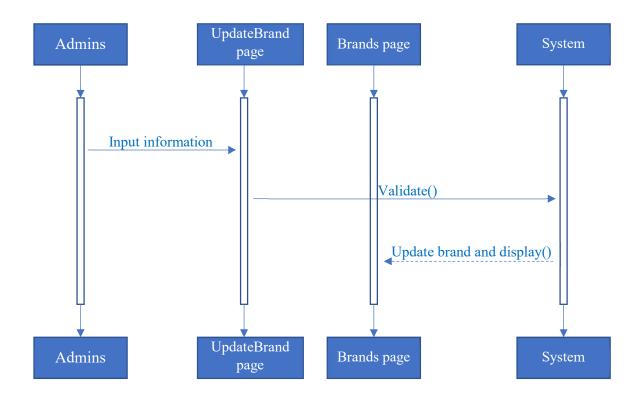


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## f.2. Update

Author	Nguyen Ngoc Thang	
<b>Use Case Name</b>	Manage Brands – Update	
Actors	Admins	
Description	Admins want to update existed brands' information	
Requirements	Login as Admins	
	Actor Actions System Responses	
Basic flow	1. Input information to input fields: Brand	2. System check the information
	Name, Image and Description. Then	[Exception 1]
	clicks on Update button.	3. Update existed brand in database
		4. Display Brands page.
Exception	[Exception 1]	Display error message:
	1. Actor left Brand Name blank	- "Brand Name can not be blank"

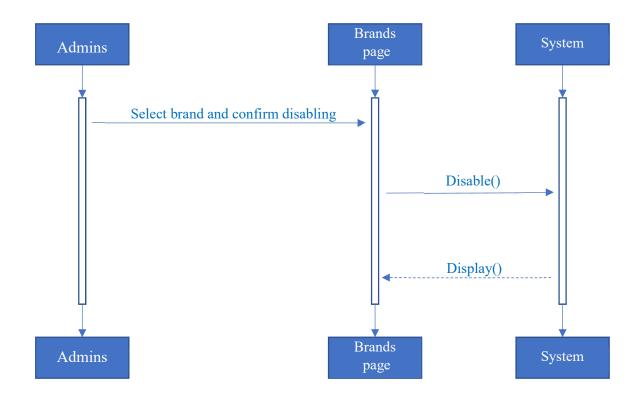


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#### f.3. Disable

Author	Nguyen Ngoc Thang	
<b>Use Case Name</b>	Manage Brands – Disable	
Actors	Admins	
Description	Admins want to disable existed brands	
Requirements	Login as Admins	
	Actor Actions	System Responses
Basic flow	1. Clicks on Disable button	2. Display 2 buttons: "Yes" and "No"
	3. Clicks on "Yes" to confirm disabling	4. Change status value of chosen
		product to from Brands table.
	5. Clicks on "No" to cancel disabling	6. Hide the 2 buttons.
	_	7. Display Brands page

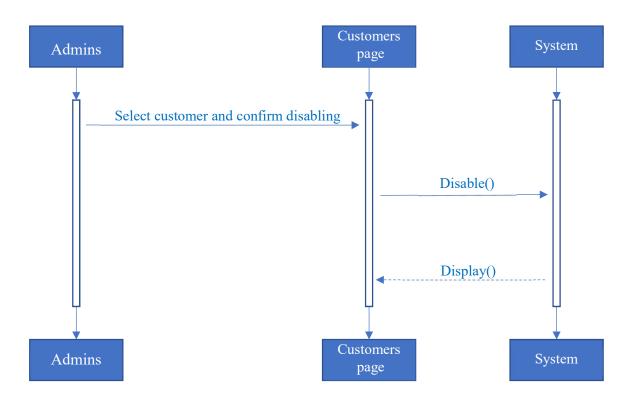


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## g. Disable customers

Author	Nguyen Thanh Hau	
<b>Use Case Name</b>	Disable Customers	
Actors	Admins	
Description	Admins want to disable existed customers	
Requirements	Login as Admins	
	Actor Actions	System Responses
Basic flow	1. Clicks on Disable button	2. Display 2 buttons: "Yes" and "No"
	3. Clicks on "Yes" to confirm disabling	4. Change status value of chosen
		product to from Customers table.
	5. Clicks on "No" to cancel disabling	6. Hide the 2 buttons.
		7. Display Customers page



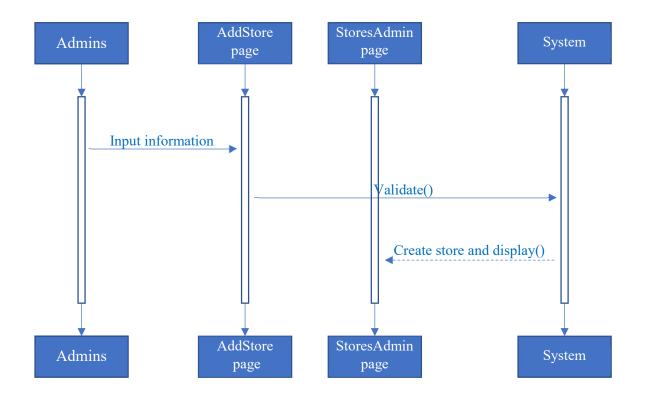
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## h. Manage stores

#### h.1. Insert

Author	Nguyen Thanh Hau		
<b>Use Case Name</b>	Manage Stores – Insert		
Actors	Admins		
Description	Admins want to insert new Stores		
Requirements	Login as Admins	Login as Admins	
	Actor Actions System Responses		
Basic flow	1. Input information to input fields: Store	2. System check the information	
	Name, Longitude, Latitude, Address,	[Exception 1]	
	City, Contact Person, Phone, Image and	3. Create new store in database	
	Description. Then clicks on Insert button. 4. Display StoresAdmin page.		
Exception	[Exception 1] Display error message:		
	1. Actor left Store Name blank	- "Store Name can not be blank"	
	2. Actor left Longitude blank	- "Longitude can not be blank"	
	3. Actor left Latitude blank	- "Latitude can not be blank"	
	4. Actor left Address blank	- "Address can not be blank"	
	5. Actor left Contact Person blank	- "Contact Person can not be blank"	
	6. Actor left Phone blank	- "Phone can not be blank"	
	7. Actor left Description blank	- "Description can not be blank"	

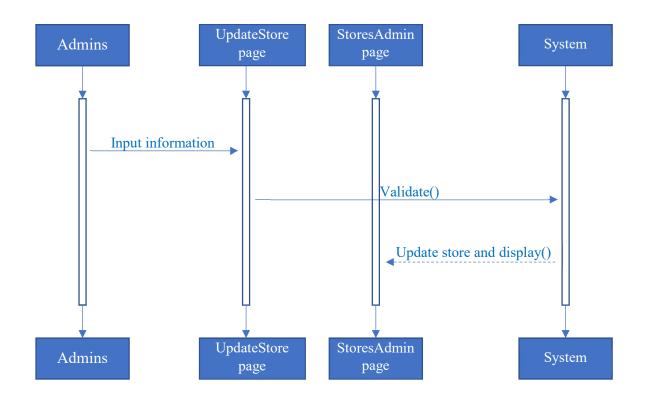


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## h.2. Update

Author	Nguyen Ngoc Thang	
<b>Use Case Name</b>	Manage Stores – Update	
Actors	Admins	
Description	Admins want to update existed stores' info	ormation
Requirements	Login as Admins	
	Actor Actions	System Responses
Basic flow	1. Input information to input fields: Store	2. System check the information
	Name, Longitude, Latitude, Address,	[Exception 1]
	City, Contact Person, Phone, Image and	3. Update existed store in database
	Description. Then clicks on Update 4. Display StoresAdmin page.	
	button.	
Exception	[Exception 1]	Display error message:
_	1. Actor left Store Name blank	- "Store Name can not be blank"
	2. Actor left Longitude blank	- "Longitude can not be blank"
	3. Actor left Latitude blank	- "Latitude can not be blank"
	4. Actor left Address blank	- "Address can not be blank"
	5. Actor left Contact Person blank	- "Contact Person can not be blank"
	6. Actor left Phone blank	- "Phone can not be blank"
	7. Actor left Description blank	- "Description can not be blank"

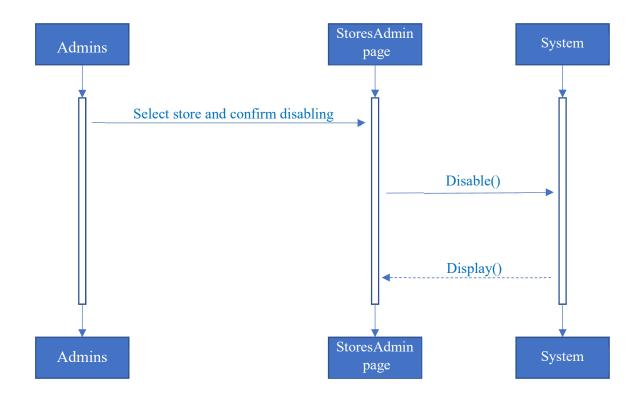


Prepared by: All Members	Approved by: Mr. Ngo Phuoc Nguyen
Project Group No: 1	

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#### h.3. Disable

Author	Nguyen Ngoc Thang	
<b>Use Case Name</b>	Manage Stores – Disable	
Actors	Admins	
Description	Admins want to disable existed stores	
Requirements	Login as Admins	
	Actor Actions	System Responses
Basic flow	1. Clicks on Disable button	2. Display 2 buttons: "Yes" and "No"
	3. Clicks on "Yes" to confirm disabling	4. Change status value of chosen
		product to from Stores table.
	5. Clicks on "No" to cancel disabling	6. Hide the 2 buttons.
	_	7. Display StoresAdmin page



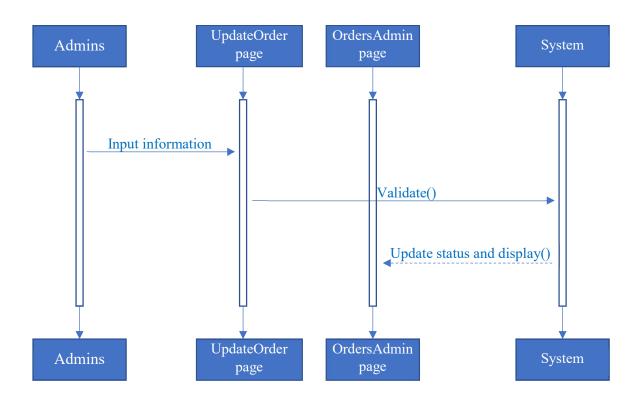
Prepared by: All Members	Approved by: Mr. Ngo Phuoc Nguyen
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### i. Manage orders

## i.1. Change orders' status

Author	Le Huu Bay	
<b>Use Case Name</b>	Manage Orders – Change orders' status	
Actors	Admins	
Description	Admins want to update orders' status	
Requirements	Login as Admins	
	Actor Actions System Responses	
Basic flow	2. Select new value in dropdown list:	1. System only display possible value
	Process Status. Then clicks on Update	base on current value in dropdown
	button.	list for Admins to select:
		+ Current: "Processing" => Display:
	"Shipping" and "Completed"	
		+ Current: "Shipping" => Display:
		"Completed"
		+ Current: "Completed" => Disable
		dropdown list and Update button.
		3. Update existed order in database
		4. Display OrdersAdmin page.

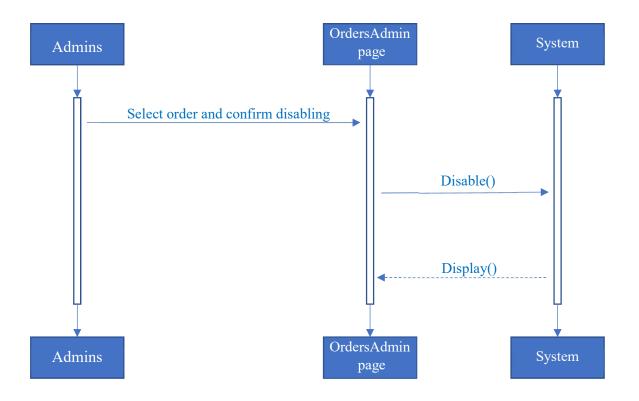


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#### i.2. Disable

Author	Le Huu Bay	
<b>Use Case Name</b>	Manage Orders – Disable	
Actors	Admins	
Description	Admins want to disable existed stores	
Requirements	Login as Admins	
<b>Pre-conditions</b>	Process Status is not "Completed"	
	Actor Actions	System Responses
Basic flow		1. if Process Status is "Completed", disable "Disable" button.
	2. Clicks on Disable button	3. Display 2 buttons: "Yes" and "No"
	4. Clicks on "Yes" to confirm disabling	5. Change status value of chosen
		product to from Orders table.
	6. Clicks on "No" to cancel disabling	7. Hide the 2 buttons.
		8. Display OrdersAdmin page

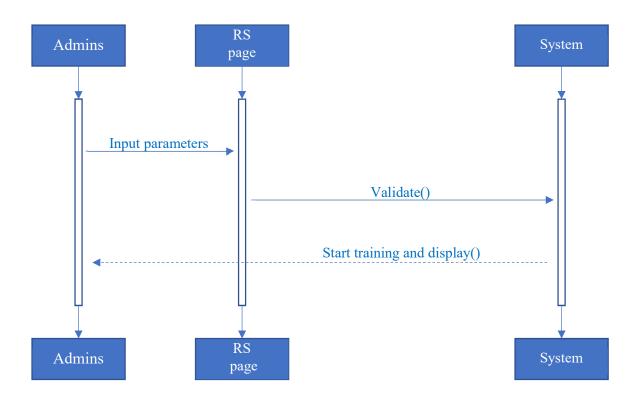


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j. Manage Recommender System (RS)

Author	Nguyen Ngoc Thang	
<b>Use Case Name</b>	Manage RS – Start Training	
Actors	Admins	
Description	Admins start the process to training the Re	ecommender System
Requirements	Logins as Admins	
	Actor Actions	System Responses
Basic flow	1. Clicks on Training button	<ul> <li>2. Start the process to train RS using Collaborative Filtering – Machine Learning Algorithm (described below).</li> <li>3. Display RS page.</li> </ul>



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## **♣** Recommender System – using Collaborative Filtering algorithm:

- Data source from Customers' ratings, example:

Ratings					
Products	Customers				
Troducts	C001	C002	C003	C004	C005
P001	5	3	-	5	2
P002	2	-	-	1	-
P003	-	-	-	5	4
P004	2	4	-	4	3
P005	-	-	-	3	-
P006	3	-	-	2	-

- Initialize to small random values. This serves to break symmetry and ensures that the algorithm learns features that are different from each other.

Features - X				
P001	X10	X11	X12	X13
P002	<b>X</b> 20	X21	X22	X23
P003	<b>X</b> 30	<b>X</b> 31	X32	<b>X</b> 33
P004	<b>X</b> 40	<b>X</b> 41	X42	<b>X</b> 43
P005	<b>X</b> 50	<b>X</b> 51	<b>X</b> 52	<b>X</b> 53
P006	<b>X</b> 60	<b>X</b> 61	X62	X63

Theta - θ						
C001	C001 C002 C003 C004 C005					
θ01	θ02	<b>Ө</b> 03	θ04	θ05		
θ11	θ12	<b>Ө</b> 13	θ14	θ15		
θ21	θ22	θ23	θ24	θ25		
Өз1	θ32	θзз	Ө34	<b>Ө</b> з5		

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- Minimize using gradient descent:

$$x_k^{(i)} := x_k^{(i)} - \alpha \left( \sum_{j:r(i,j)=1} ((\theta^{(j)})^T x^{(i)} - y^{(i,j)}) \theta_k^{(j)} + \lambda x_k^{(i)} \right)$$

$$\theta_k^{(j)} := \theta_k^{(j)} - \alpha \left( \sum_{i:r(i,j)=1} ((\theta^{(j)})^T x^{(i)} - y^{(i,j)}) x_k^{(i)} + \lambda \theta_k^{(j)} \right)$$

- For a user with parameters  $\theta$  and a product with (learned features x, predict a star rating of  $\theta x$ . Example:

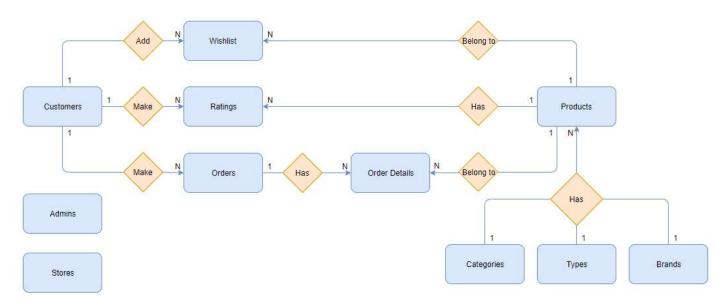
	Predictions Ŷ = X * θ				
Products	Customers				
Froducts	C001	C002	C003	C004	C005
P001	5.05	2.90	3.20	4.80	2.40
P002	1.60	3.10	1.90	1.20	2.40
P003	3.70	4.20	3.90	4.80	4.30
P004	2.20	4.10	3.30	3.50	2.50
P005	2.50	29.00	3.20	3.20	3.40
P006	3.30	1.70	2.10	2.40	3.10

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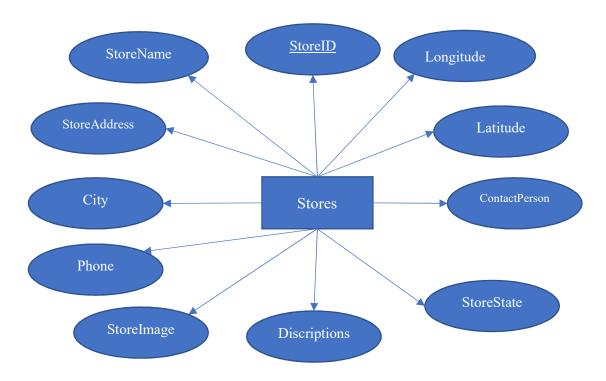
## II. Entity Relationship Diagram (ERD):

### 1. Logical



#### 2. Tables:

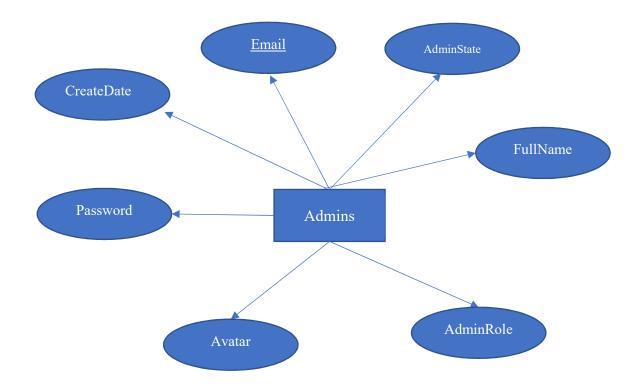
#### a. Stores:



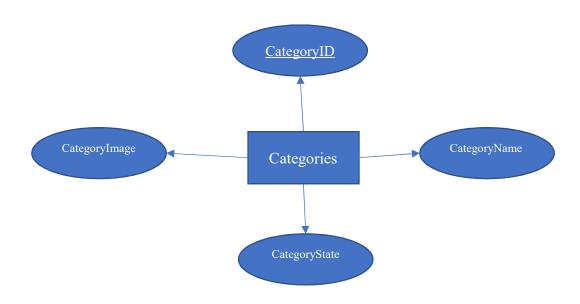
Approved by: Mr. Ngo Phuoc Nguyen

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#### b. Admins:



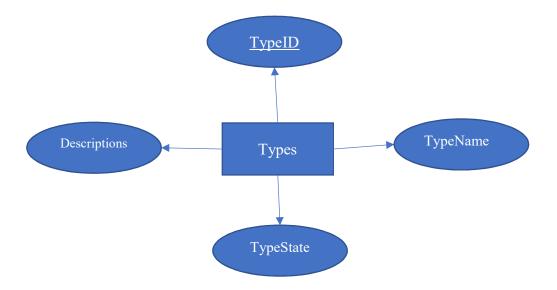
## c. Categories:



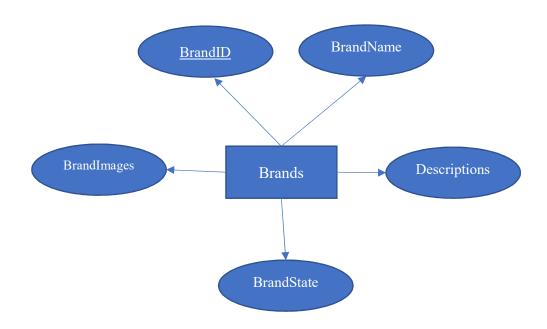
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## d. Types:



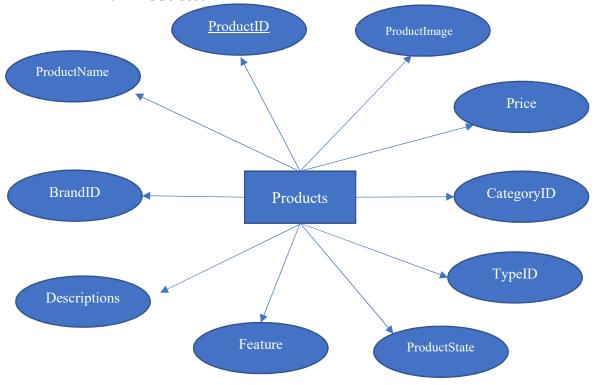
### e. Brands:



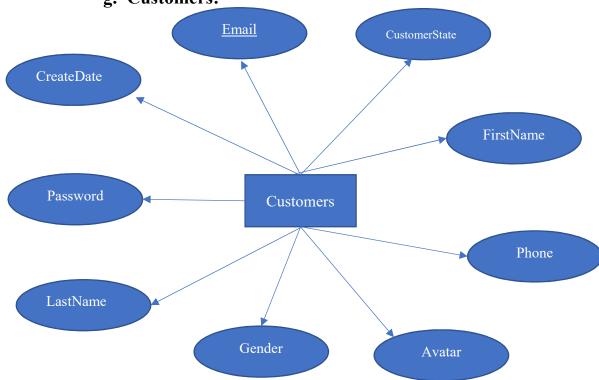
Approved by: Mr. Ngo Phuoc Nguyen

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#### f. Products:



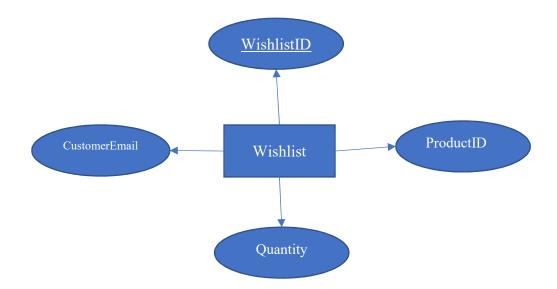
## g. Customers:



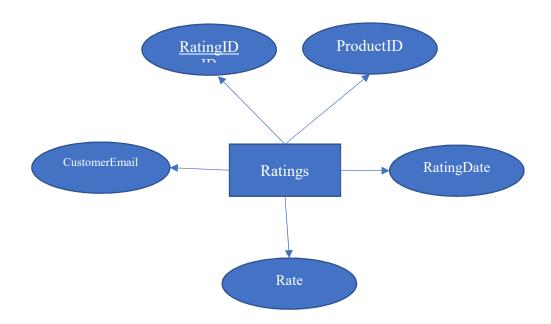
Approved by: Mr. Ngo Phuoc Nguyen

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#### h. Wishlist:



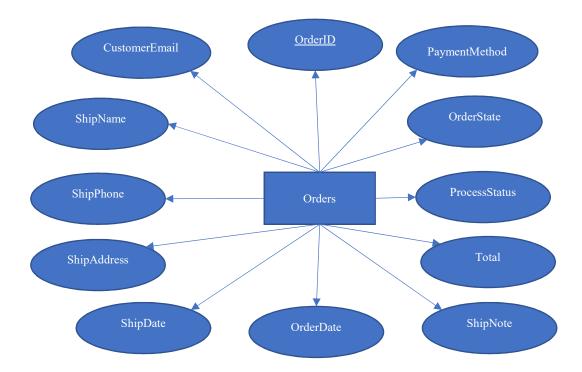
# i. Ratings:



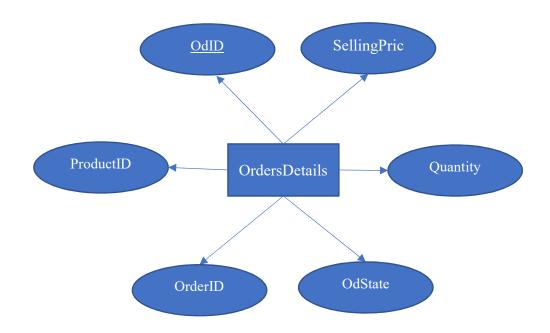
Approved by: Mr. Ngo Phuoc Nguyen

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## j. Orders:



#### k. Order Details:



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## III. Task sheet:

Project Ref. No.		Project Name: tShop	Date of Preparation of Activity Plan		
No.	Task	Description	Start Date	Complete Date	Team member
01		I. 1. Guests - COMPARE			
02		I. 1. Guests - CHECK OUT			
03		I. 2. Members - MANAGE ORDERS			
04		I. 3. Admins - MANAGE PRODUCTS			Le Huu Bay
05		I. 3. Admins - MANAGE CATEGORIES			_
06		I. 3. Admins - MANAGE ORDERS			
07		II. 2. Tables			
08		I. 1. Guests - SIGN UP			
09		I. 2. Members - LOGIN			
10		I. 2. Members - UPDATE PRIVATE INFORMATION			
11	2	I. 2. Members - MANAGE WISHLIST	<b>18</b>	8	Nguyen Thanh
12	ew	I. 3. Admins - MANAGE ACCOUNTS	/20	/20	Hau
13	Review	I. 3. Admins - UPDATE PRIVATE INFORMATION	11/04/2018	17/04/2018	
14		I. 3. Admins - DISABLE CUSTOMERS			
15		I. 3. Admins - MANAGE STORES			
16		I. 1. Guests - SEARCH			
17		I. 1. Guests - FILTER			
18		I. 1. Guests - VIEW PRODUCT DETAIL			
19		I. 1. Guests - CART			Nguyen Ngoc Thang
20		I. 2. Members - RATING			
21		I. 3. Admins - MANAGE TYPES			
22		I. 3. Admins - MANAGE BRANDS			
23		I. 3. Admins - MANAGE RECOMMENDER SYSTEM			
24		II. 1. Logical			

Signature of Team Leader

Signature of Supervisor

Prepared by: All Members	Approved by: Mr. Ngo Phuoc Nguyen			
Project Group No: 1				