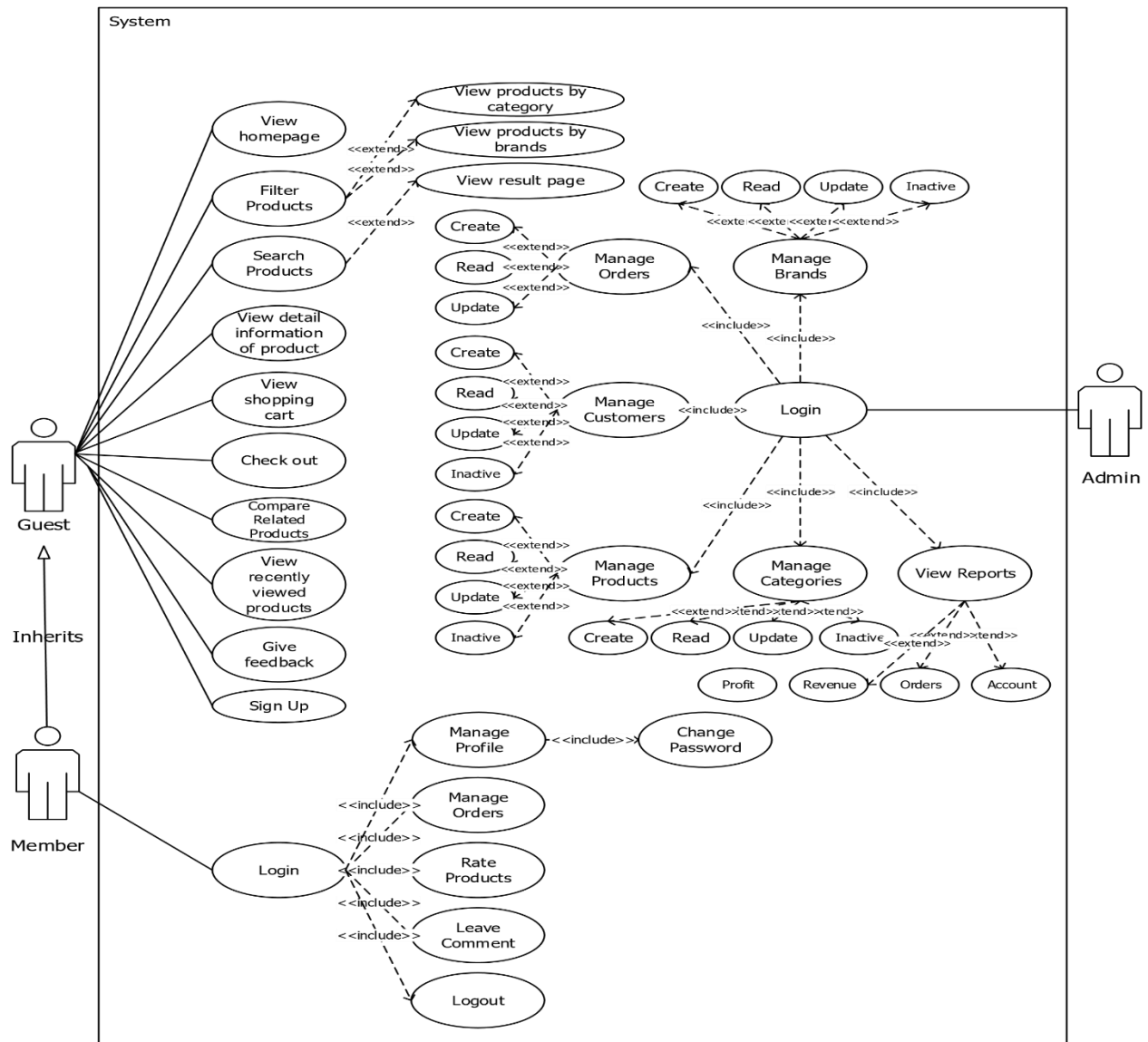


REVIEW 2

9. Use Case and Sequence Diagram General Diagram of Functionalities

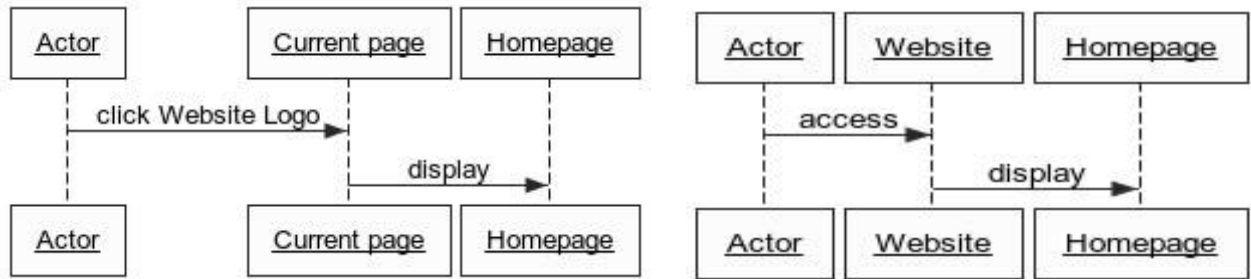


9.1 Guest

9.1.1 View homepage

Use Case Name	View Homepage
Actors	Guest, Member, Admin
Description	Homepage of the website.
Requirements	
Pre-conditions	
Post-conditions	

Basic flow	<p>Actor Actions:</p> <p>1. Actor access to website or clicks Website Logo.</p>	<p>System Responses:</p> <p>2. Systems display Homepage with following controls:</p> <ul style="list-style-type: none"> ❖ Navigation Bar <ul style="list-style-type: none"> ➤ Customer Service phone no. ➤ Log In link ➤ Register link ❖ Menu <ul style="list-style-type: none"> ➤ Logo ➤ Home ➤ Feedback ➤ Build your PC ➤ Contact ➤ About ➤ FAQs ➤ Search tool (search by name) ❖ New Arrivals (10 new products) <ul style="list-style-type: none"> ➤ Image ➤ Product Name ➤ Price ➤ Add To Cart button ❖ Best Rating (5 highest rated products) <ul style="list-style-type: none"> ➤ Image ➤ Product Name ➤ Price ➤ Add To Cart button
		<ul style="list-style-type: none"> ❖ Brands Logo Bar ❖ Advantaged Features
Alternative flow		
Exception		

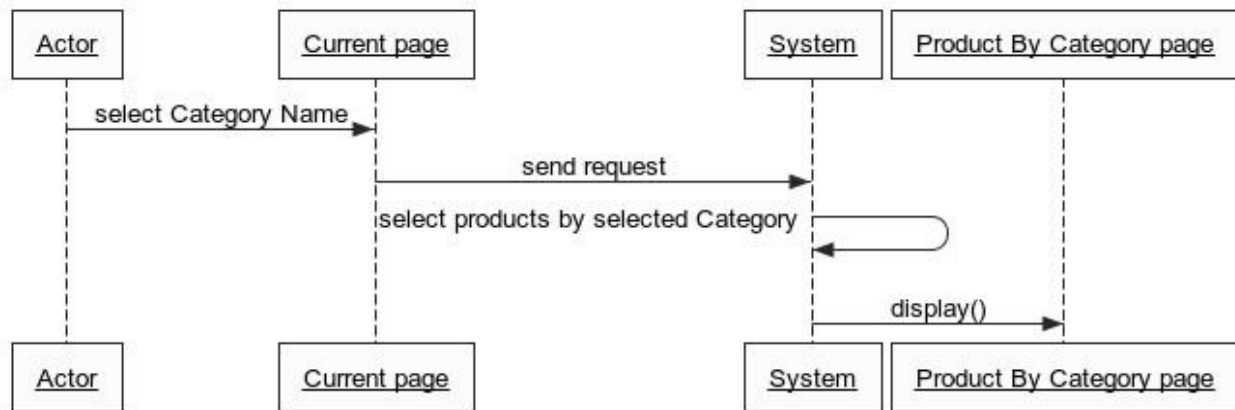


9.1.2 Filter Products

9.1.2.1 View products by categories

Use Case Name	View products by categories	
Actors	Guest, Member, Admin	
Description	Actor wants to view products of a specific category.	
Requirements	Actor chooses one of categories displayed on the menu at the top of the website.	
Pre-conditions		
Post-conditions	Success: All products belongs to selected category are displayed.	
Basic flow	Actor Actions	System Responses
	1. Actor selects one of categories displayed on the menu at the top of the website (or in the left menu)	2. System displays Products. In this page, actor can refine products by Filter Tool on the left: <ul style="list-style-type: none"> ❖ From price – To Price ❖ Sort by Name, Price, Rating

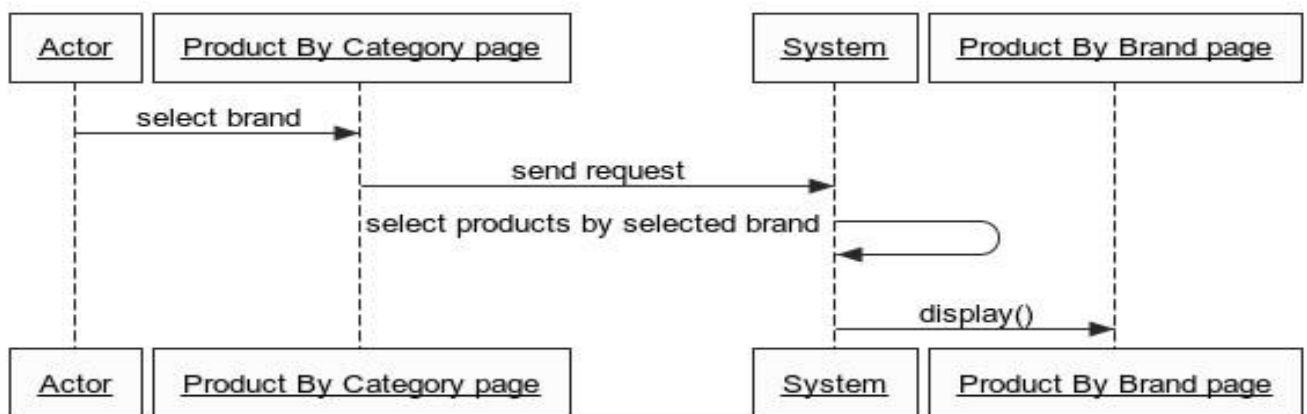
Alternative flow		
Exception		



9.1.2.2 View products by brands

Use Case Name	View products by brands	
Actors	Guest, Member, Admin	
Description	Actor wants to view products of a specific brand.	
Requirements	Actor chooses one of brands displayed above all products grouped by category.	
Pre-conditions	Is viewing products by categories.	
Post-conditions	Success: All products belongs to selected brands (and the category that actor is viewing) are displayed.	
	Actor Actions	System Responses

Basic flow	1. Actor clicks one of brands displayed displayed on the menu at the top of the website (or in the left menu)	2. System displays Products.In this page, actor can refine products by Filter Tool on the left: ❖ From price – To Price ❖ Sort by Name,Price, Rating
Alternative flow		
Exception		



9.1.3 Search Products

Use Case Name	Search products	
Actors	Guest, Member, Admin	
Description	Actor wants to search specific products.	
Requirements	Actor provides searching condition and clicks Search button.	
Pre-conditions		
Post-conditions	Success: Display condition-matched products.	
	Actor Actions	System Responses

Basic flow	1. Actor provides search conditions and clicks Search button	2. Systems displays conditionmatched products. In this page, actor can refine products by Filter Tool on the left: <ul style="list-style-type: none"> ❖ From price – To Price ❖ Sort by Name,Price, Rating
Alternative flow		
Exception		

9.1.4 View detail information of product

Use Case Name	View product details	
Actors	Guest, Member, Admin	
Description	Actor wants to view all information about a specific product.	
Requirements	Actor clicks Productname under the thumbnail image of the product.	
Pre-conditions		
Post-conditions	Success: Display product details page.	
	Actor Actions	System Responses

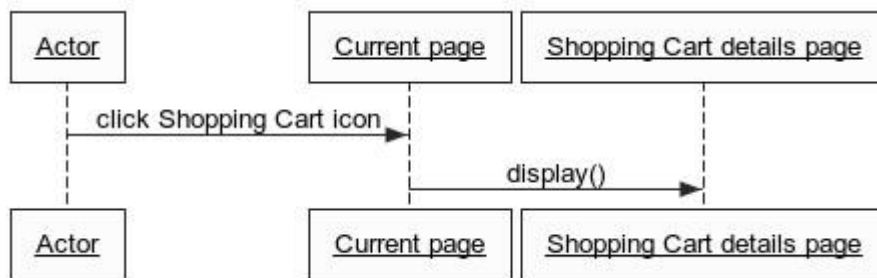
Basic flow	1. Actor clicks Product Name under the thumbnail image of the product.	2. Systems display Product Details page with following controls: ❖ Product Image ❖ Product Information ➤ Product Name ➤ Price ➤ Status ➤ Description ➤ Quantity textfiled ➤ Add To Cart button ➤ Rating ➤ Reviews ➤ Description Specifications Reviews ➤ Write a review
Alternative flow		
Exception		

9.1.5 View shopping cart

9.1.5.1 View shopping cart details

Use Case Name	View shopping cart details	
Actors	Member, Guest (Admin doesn't have this functionality)	
Description	Actor wants to view shopping cart details.	
Requirements	Actor clicks Shopping Cart icon on the top of the website.	
Pre-conditions		
Post-conditions	Success: Open Shopping cart detail.	
	Actor Actions	System Responses

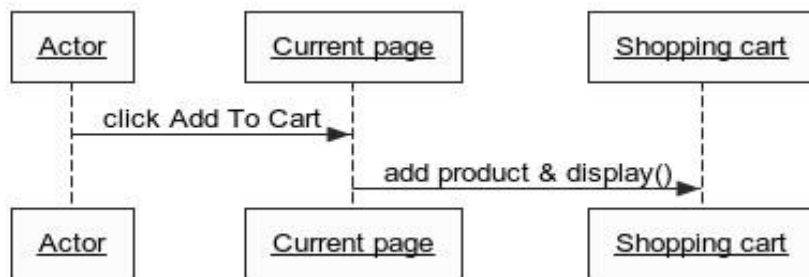
Basic flow	1. Actor clicks Shopping Cart icon on the top of the website.	2. System Shopping Cart Detail page with following components: <ul style="list-style-type: none"> ➤ Image ➤ Product Name ➤ Purchase Quantity ➤ Price textfield ➤ Total price: ➤ Action:Remove
Alternative flow		
Exception		



9.1.5.2 Put product into shopping cart

Use Case Name	Put product into shopping cart
Actors	Guest, Member (Admin doesn't have this functionality).
Description	Actor wants to put products into shopping cart to remember or create order.
Requirements	Actor inputs purchase quantity and clicks Add To Cart button under product image.
Pre-conditions	
Post-conditions	Success: Product name and purchase quantity appear in the shopping cart.

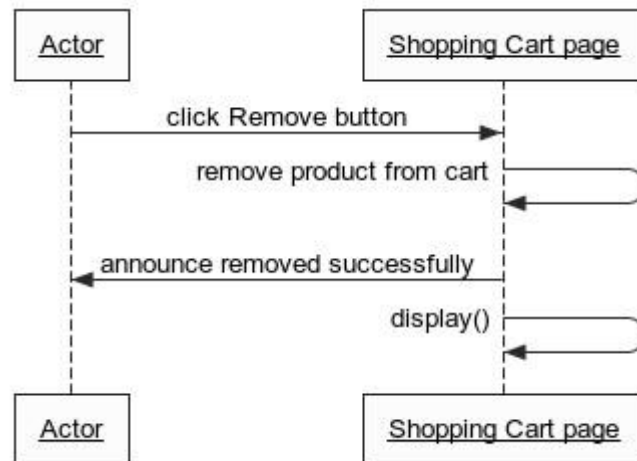
	Actor Actions	System Responses
Basic flow	1. Actor clicks Add To Cart button under product image.	2. System product name into the shopping cart & display shopping cart page. Actor changes purchase quantity in shopping cart page
Alternative flow		
Exception		



9.1.5.3 Take product out of shopping cart

Use Case Name	Take product out of shopping cart	
Actors	Guest, Member (Admin doesn't have this functionality)	
Description	Actor wants to take products out of shopping cart.	
Requirements	Actor clicks Remove button in Action column in Shopping Cart page.	
Pre-conditions		
Post-conditions	Success: Product name and buying quantity disappear in the shopping cart.	
	Actor Actions	System Responses

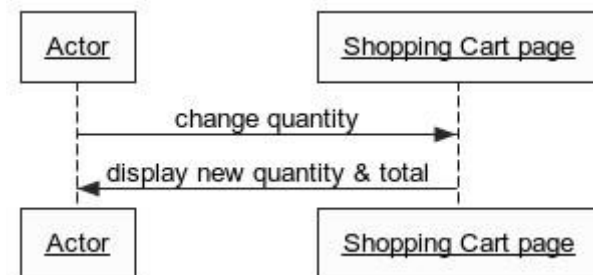
Basic flow	1. Actor clicks Remove button in the right any record in Shopping Detail table	2. System removes the product from shopping cart.
Alternative flow		
Exception		



9.1.5.4 Change purchase quantity of the products

Use Case Name	Change the quantity of the products	
Actors	Guest, Member	
Description	Actor wants to change purchase quantity.	
Requirements	Actor change the purchase quantity of products.	
Pre-conditions		
Post-conditions	Success: Changed purchase quantity appears in the shopping cart.	
	Actor Actions	System Responses
Basic flow	1. Actor changes purchase quantity in shopping cart page	2. Total price changes with quantity

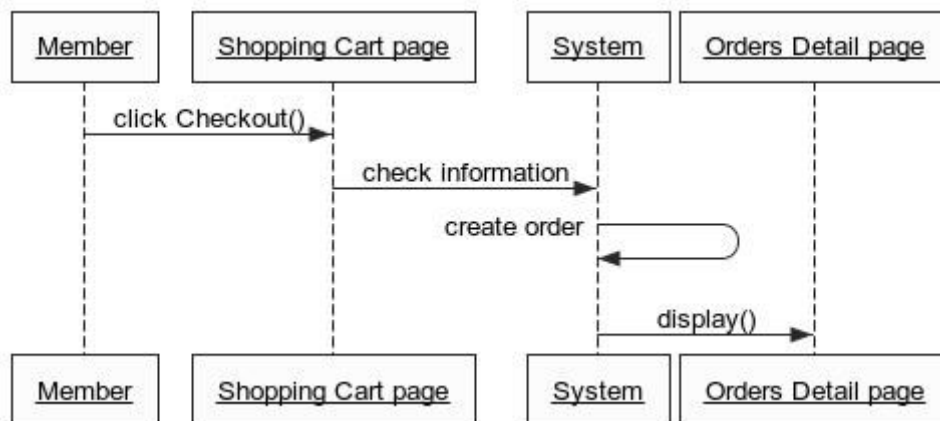
Alternative flow		
Exception		



9.1.6 Check out

Use Case Name	Check out	
Actors	Guest, Member want to check out order	
Description	Member	
Requirements	Member clicks Checkout button in Shopping Cart Details page.	
Pre-conditions	Member logged in.	
Post-conditions	Success: Order is created.	
Basic flow	Actor Actions: 1. In Shopping Cart Details page, member clicks Checkout button.	System Responses: 2. System checks order information. [Exception 1] 3. System inserts order information into database and redirects to Orders Details page.
Alternative flow		

Exception	Actor Actions: [Exception 1] 1. Purchase Quantity is greater than In Stock Quantity. 2. The product that member wants to buy is out of stock at that time.	System Responses: 1. Show popup with 'Not enough In Stock Products' message. 2. Show popup with '[Product Name] is already out of stock' message.
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9.1.7 Compare related products

Use Case Name	Compare products	
Actors	Guest, Member	
Description	Allows customers to compare similar products (Max 3 product)	
Requirements	Customers click on the product comparison icon on each product	
Pre-conditions		
Post-conditions	Add products to the comparison page	
Basic flow	Actor Actions	System Responses

	1. Guest clicks 'Compare' icon on each product	1. Product comparison page and displays compare form with the following control: ❖ Remove button ❖ Add product to compare ❖ Compare form: <ul style="list-style-type: none"> Product name Price Rating Description Category
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9.1.8 Build your PC

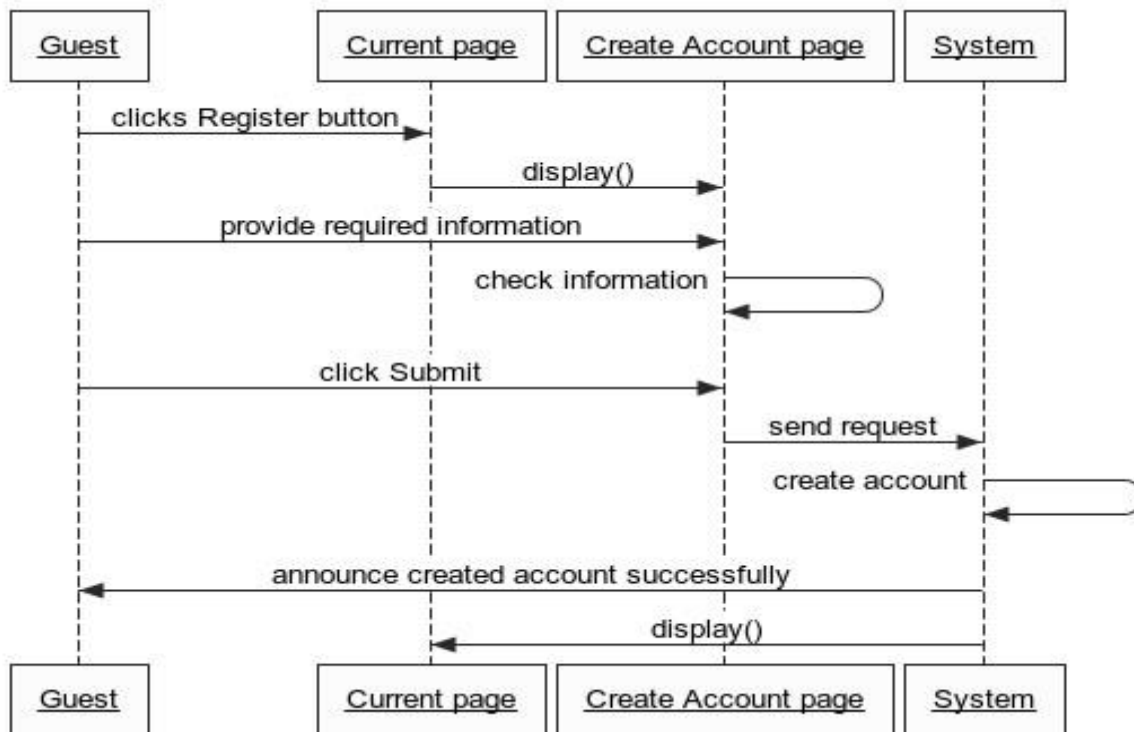
Use Case Name	Build your pc	
Actors	Guest, Member (Admin doesn't have this functionality).	
Description	Customers buy products on a form to become a complete computer	
Requirements	Customer need to select products on each site and then update the shopping cart on the same page	
Pre-conditions		
Post-conditions	Success: Product name and purchase quantity appear in the shopping cart.	
	Actor Actions	System Responses
Basic flow	1. Customers choose products in the list 2. Click on update cart 3. Click on Check Out	System product name into the shopping cart & display shopping cart page.

Alternative flow		
Exception		

9.1.9 Sign up

Use Case Name	Register a member account	
Actors	Guest	
Description	Guest wants to register with the website to become a member.	
Requirements	Guest provides Guest's information	
Pre-conditions		
Post-conditions	Success: Guest creates a member account in this website	
Basic flow	Actor Actions	System Responses
	1. Guest clicks 'Register' button at the top of the website	2. System redirects to Create Account page and displays Register form with the following control: <ul style="list-style-type: none"> ❖ Username textfield ❖ Password textfield ❖ Confirm password textfield ❖ Email textfield ❖ Firstname ❖ Lastname ❖ DOB ❖ Gender <ul style="list-style-type: none"> ➤ Male ➤ Female ❖ Phone

	<p>3. Guest fills in the form and clicks Register button [Exception 1]</p>	<p>❖ Address [Note 1]</p> <p>4. Systems check information & create new account and show 'Your account has been created successfully' message.</p>
Note	<p>[Note 1] Information is validated on client-side:</p> <ul style="list-style-type: none"> ➤ Guest left any fields empty → Show 'This field is required' message ➤ Username or Password or Confirm Password has length less than 5 → Show 'Please enter at least 5 characters' message. ➤ Username has length greater than 20 → Show 'Username has maximum length is 20 characters' message. ➤ Password has length greater than 30 → Show 'Password has maximum length is 30 characters' message. ➤ Password and Confirm Password aren't matched → Show 'Please enter the same value again' message. ➤ Email isn't matched abc@abc.abc pattern → Show 'Please enter a valid email address' message. ➤ Email has length greater than 20 → Show 'Email has maximum length is 20 characters' message. ➤ Firstname has length greater than 20 → Show 'Firstname has maximum length is 20 characters' message. ➤ Lastname has length greater than 20 → Show 'Lastname has maximum length is 20 characters' message. ➤ From year of birth to current year is less than 10 years → Show 'Member must be at least 10 years old' message. ➤ Phone has length greater than 15 → Show 'Phone number has maximum length is 15 characters' message. ➤ Address has length greater than 50 → Show 'Address has maximum length is 50 characters' message. 	
Alternative flow		
Exception	Actor Actions: [Exception 1]	System Responses:
	1. Any error in [Note 1] occurs	2. Show 'You have some form error. Please check below' message

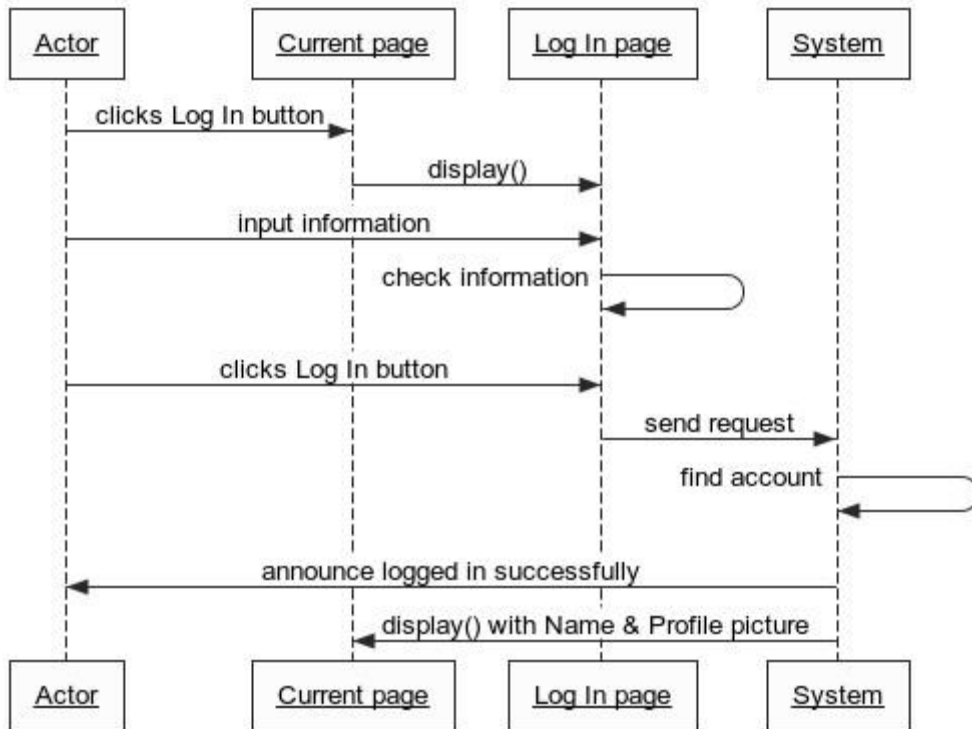


9.2 Member

9.2.1 Login

Use Case Name	Login	
Actors	Member, Admin	
Description	Actor log in by email and password to access specific functionalites.	
Requirements	Actor clicks Log In button and provides username, password	
Pre-conditions		
Post-conditions	Success: email and profile picture appear at the right-top corner of the website.	
	Actor Actions	System Responses

Basic flow	<p>1. Actor clicks Log In button at the top of the website.</p> <p>3. Actor inputs username and password and clicks Log In.</p> <p>[Note 1] [Exception 1]</p>	<p>2. System redirects to Log In page.</p> <p>4. Systems finds account has provided username and password.</p> <p>Returns to the page where actor clicked Log In button with account name at the right-top corner of the website.</p>
Note	<p>[Note 1] Information is validated on client-side:</p> <ul style="list-style-type: none"> ❖ Actor left username or password empty → Show 'This field is required' message. ❖ If username or password invalid -> Show 'Invalid username/password' message 	
Alternative flow		
Exception	<p>[Exception 1]</p> <p>Any error in [Note 1] occurs</p>	<p>Show 'You have some form error.Please check below' message</p>

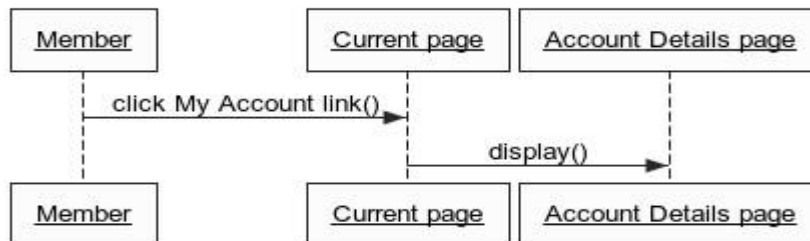
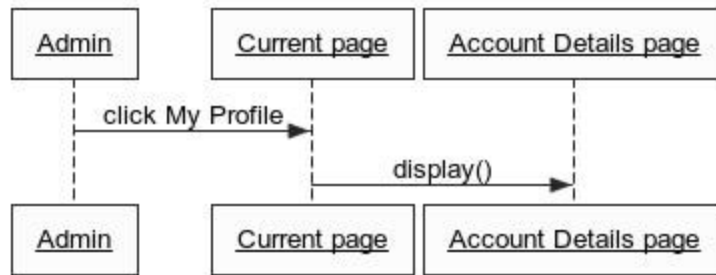


9.2.2 Manage Profile

9.2.2.1 View profile

Use Case Name	View profile	
Actors	Member, Admin	
Description	Actor wants to view profile information.	
Requirements	Actor clicks 'My Account' link.	
Pre-conditions	Logged in.	
Post-conditions	Success: Profile page is opened.	
Basic flow	Actor Actions	System Responses

	<p>1.</p> <ul style="list-style-type: none"> ❖ Admin: moves pointer to Profile picture and clicks My Profile link. ❖ Member: click My Account at the right-top corner of the website 	<p>2. System opens Profile Account page with the information of the current account:</p> <ul style="list-style-type: none"> ❖ Personal Infor form <ul style="list-style-type: none"> ➤ Username textfield (readonly) ➤ Email textfield ➤ Firstname textfield ➤ Lastname textfield ➤ DOB textfield ➤ Gender textfield ➤ Phone textfield ➤ Address textfield ➤ Update button ➤ Cancel button ❖ Left menu: <ul style="list-style-type: none"> ➤ My account <ul style="list-style-type: none"> ▪ Orders ▪ Reviews ➤ Change Password ➤ Contact ➤ About ➤ FAQs
Alternative flow		
Exception		

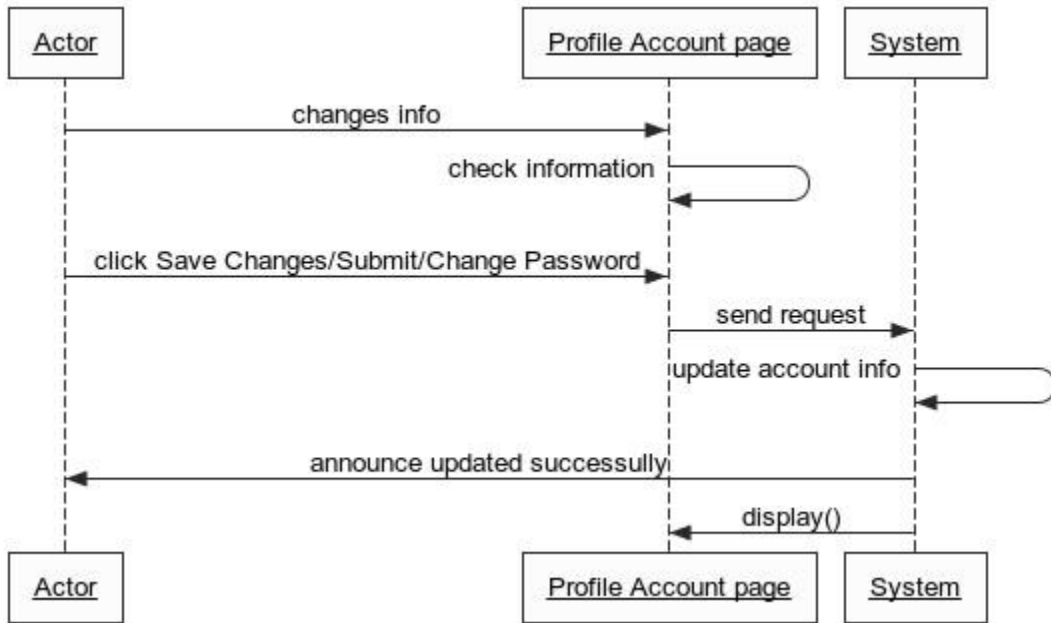


9.2.2.2 Update profile

Use Case Name	Update profile
Actors	Member, Admin
Description	Actor wants to change profile information.
Requirements	Actor changes current information and clicks Save changes.
Pre-conditions	Is viewing My Account.
Post-conditions	Success: Return to Profile Account page.

Basic flow	<p>Actor Actions:</p> <p>1. To change account details, actor changes information in the form below:</p> <ul style="list-style-type: none"> ❖ Account Information form <ul style="list-style-type: none"> ➤ Email textfield ➤ Firstname textfield ➤ Lastname textfield 	<p>System Responses:</p>
	<ul style="list-style-type: none"> ➤ DOB textfield ➤ Gender textfield ➤ Phone textfield ➤ Address textfield ➤ Update button ➤ Cancel button <p>To change password, actor clicks Change Password and change information in the form below:</p> <ul style="list-style-type: none"> ❖ Change Password form <ul style="list-style-type: none"> ➤ Current Password ➤ New Password ➤ Confirm New Password ➤ Change password button <p>[Note 1]</p> <p>Clicks Save Update/Change Password</p> <p>[Exception 1] [Alternative 1]</p>	<p>2. Systems updates new information to database, show 'Profile is updated' message and returns to Profile Account page.</p>

Note	<p>[Note 1] Information is validated on client-side: ❖</p> <p>Personal Info form</p> <ul style="list-style-type: none"> ➤ Actor left any fields empty → Show 'This field is required' message <p>❖ Change Password form</p> <ul style="list-style-type: none"> ➤ Actor left any fields empty → Show 'This field is required' message ➤ Current Password or New Password or Confirm New Password has length less than 5 → Show 'Please enter at least 5 characters' message. ➤ Current Password or New Password or Confirm New Password has length greater than 30 → Show 'Password has maximum length is 30 characters' message. ➤ New Password and Confirm New Password aren't matched → Show 'Please enter the same value again' message. 	
Alternative flow	<p>Actor Actions:</p> <p>[Alternative 1]</p>	<p>System Responses:</p>
	<p>1. Actor clicks Cancel button.</p>	<p>2. Systems refills all controls with old information.</p>
Exception	<p>Actor Actions:</p> <p>[Exception 1]</p> <p>1. Any error in [Note 1] occurs</p>	<p>System Responses:</p> <p>2. Show 'You have some form error. Please check below' message.</p>

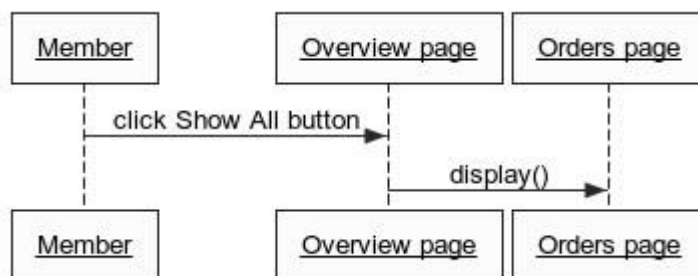


9.2.3 Manage Orders

9.2.3.1 View orders

Use Case Name	View orders page	
Actors	Member	
Description	Member	
Requirements	Member clicks Show All button in Lastest Orders table.	
Pre-conditions	Is viewing Overview page.	
Post-conditions		
	Actor Actions	System Responses

Basic flow	1. Member clicks Show All button in Lastest Orders table.	<p>2. System displays Orders page with following components:</p> <ul style="list-style-type: none"> ❖ Number Of Records selection ❖ Search textfield ❖ Order table ➤ No. <ul style="list-style-type: none"> ➤ Purchase date ➤ Shipping address ➤ Total price ➤ Status ❖ Actions:Details Cancel [Note 1]
Note	[Note 1] Cancel button is only available for Orders that have status is PENDING.	
Alternative flow		
Exception		



9.2.3.2 Cancel order

Use Case Name	Cancel orders
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Actors	Member	
Description	Member wants to cancel an order.	
Requirements	Member clicks Cancel button	
Pre-conditions	Logged in Member account and being at Orders page.	
Post-conditions		
	Actor Actions	System Responses
Basic flow	1. Member clicks Cancel button in the right of any record of Orders Table in Member Orders page 3. Clicks 'Yes' [Alternative 1]	2. Show confirmation 4. Update status of Order to 'Canceled'
Note		
Alternative flow	Actor Actions: [Alternative 1] 1. Click 'No'	System Responses: 2. Stay on page

Exception		
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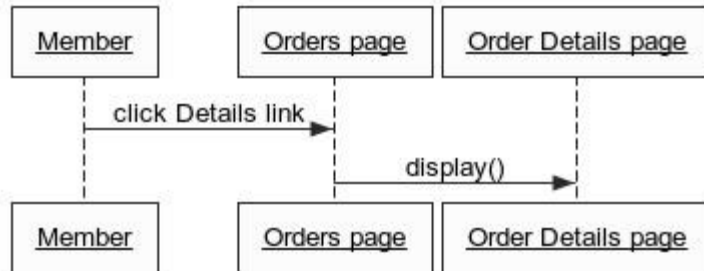
9.2.3.3 View order details

Use Case Name	View orders details
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Actors	Member
Description	Member wants to view details of a specific order.
Requirements	Member clicks Detail link in Action column
Pre-conditions	Logged in Member account and being at Orders page.
Post-conditions	Success: Open Order Details page.

Basic flow	<p>Actor Actions:</p> <p>1. Member clicks Detail link in Action column</p>	<p>System Responses:</p> <p>2. System open Order Details page with following components:</p> <ul style="list-style-type: none"> ❖ Orders Information ➤ <ul style="list-style-type: none"> Order no. ➤ Order Date & Time ➤ Grand total ➤ Payment Method ❖ Customer Information <ul style="list-style-type: none"> ➤ Customer Name ➤ Email ➤ State ➤ Phone Number ❖ Billing Address ❖ Shipping Address ❖ Order Details table ➤ <ul style="list-style-type: none"> No. ➤ Product Name ➤ Status ➤ Price ➤ Quantity ➤ Discount
		<ul style="list-style-type: none"> ➤ Total ➤ Action: Remove [Note 1]
Note	<p>[Note 1] Cancel button is only available for Orders that have status is PENDING.</p>	
Alternative flow		

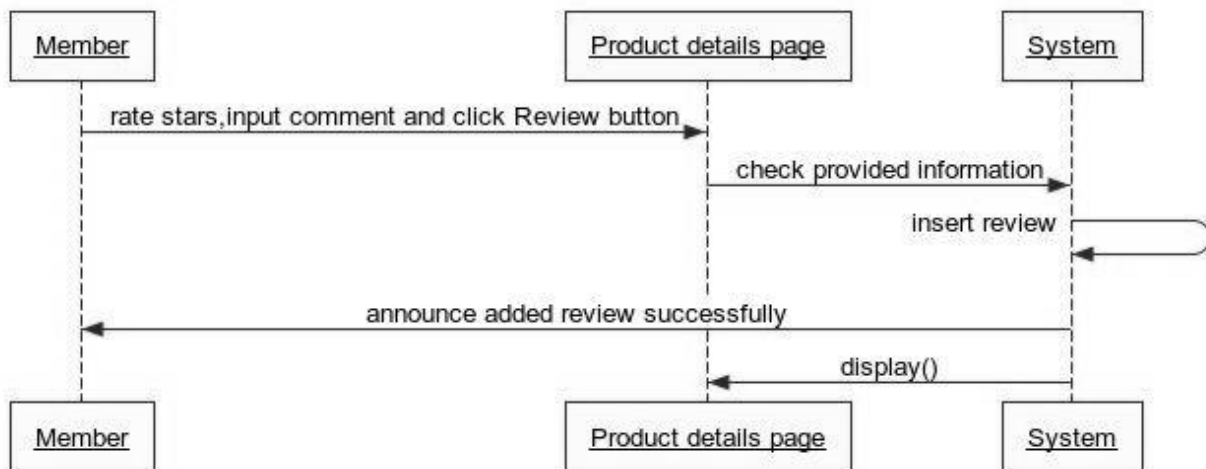
Exception		
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9.2.4 Rate Products, Leave comment

Use Case Name	Rate products	
Actors	Member	
Description	Member rates stars and leaves comment about the product.	
Requirements	Member chooses from one to five stars and type comment in comment area under the product details.	
Pre-conditions	Member logged in & being at Product Details page.	
Post-conditions	Success: Stars and comment will display after rating.	
	Actor Actions	System Responses

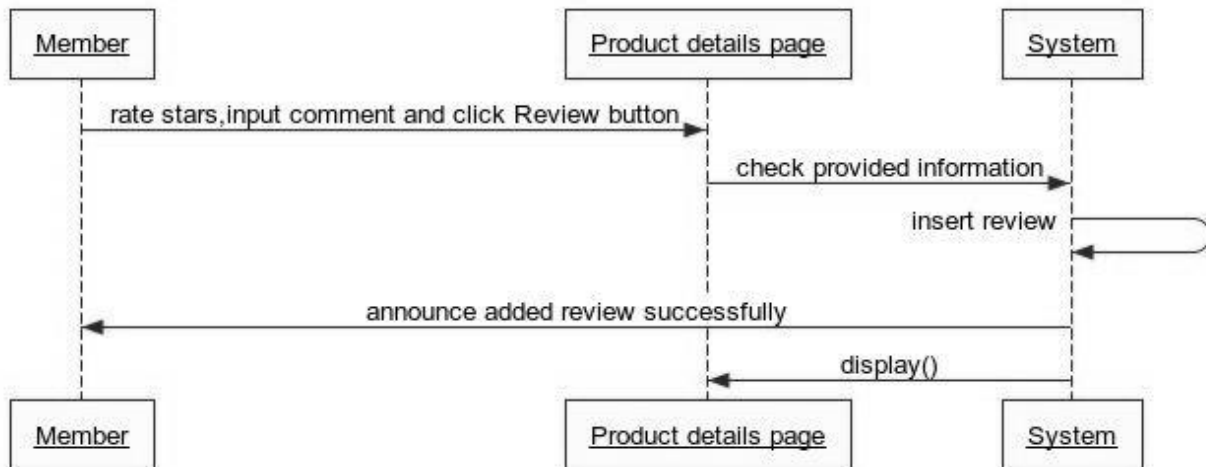
Basic flow	1. Member chooses from one to five stars and type comment in the comment area under product details. Then click Post button [Exception 1]	2. System inserts the number of stars actor selected and comment to database.
Alternative flow		
Exception	Actor Actions: [Exception 1] 1. Member didn't rate stars	System Responses: 2. Show 'Rate stars for product before posting comment' message.



9.2.5 Review

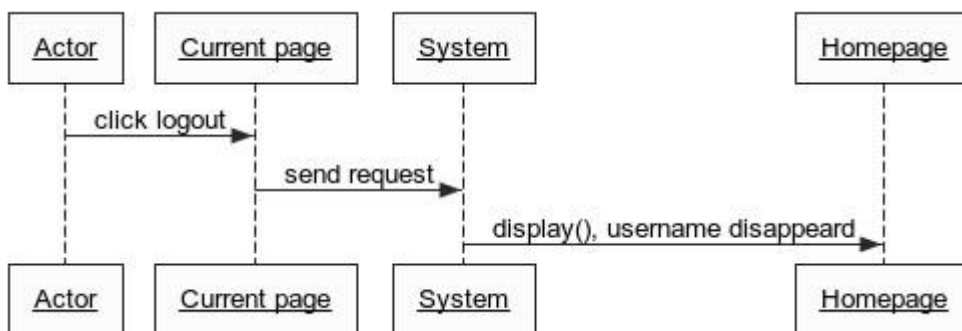
Use Case Name	Review products
Actors	Member

Description	Member rates stars and leaves comment about the product.	
Requirements	Member chooses from one to five stars and type comment in comment area under the product details.	
Pre-conditions	Member logged in & being at Product Details page.	
Post-conditions	Success: Stars and comment will display after rating.	
Basic flow	<p>Actor Actions:</p> <ol style="list-style-type: none"> Member chooses from one to five stars and type comment in the comment area under product details. Then click Post button <p>[Exception 1]</p>	<p>System Responses:</p> <ol style="list-style-type: none"> System inserts the number of stars actor selected and comment to database.
Alternative flow		
Exception	<p>Actor Actions:</p> <p>[Exception 1]</p> <ol style="list-style-type: none"> Member didn't rate stars 	<p>System Responses:</p> <ol style="list-style-type: none"> Show 'Rate stars for product before posting comment' message.



9.2.6 Logout

Use Case Name	Logout	
Actors	Member, Admin	
Description	Actor wants to log out of current account.	
Requirements	Actor clicks 'Log out' button.	
Pre-conditions		
Post-conditions	Success: Return to homepage.	
Basic flow	Actor Actions: 1. Actor clicks 'Log out' button.	System Responses: 2. System returns to homepage, username disappear at the right-top corner of the website.
Alternative flow		
Exception		

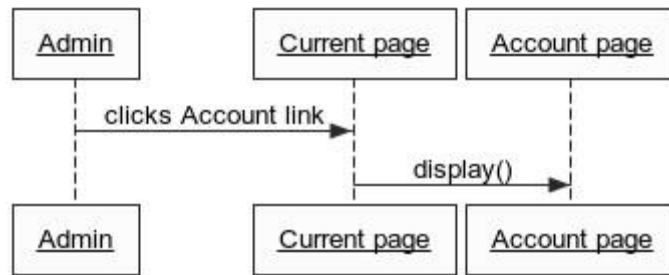


9.3 Admin

9.3.1 Manage Accounts

9.3.1.1 View accounts

Use Case Name	View accounts	
Actors	Admin	
Description	Admin wants to view a list of all accounts in database.	
Requirements	Admin clicks 'Account' option in the sidebar.	
Pre-conditions	Logged in Admin account.	
Post-conditions	Success: Open Accounts page which displays a list of all accounts in database.	
	Actor Actions	System Responses
Basic flow	1. Admin clicks 'Account' option in the left menu.	2. System selects all accounts in database and shows them on Account page with following components: <ul style="list-style-type: none">❖ Number Of Records selection❖ Search textfield❖ Add New button❖ Account table ➤ Checkbox ➤ No.<ul style="list-style-type: none">➤ Username➤ Role➤ Email➤ Fullname➤ Gender➤ Age➤ Status➤ Action:Update Delete
Alternative flow		
Exception		

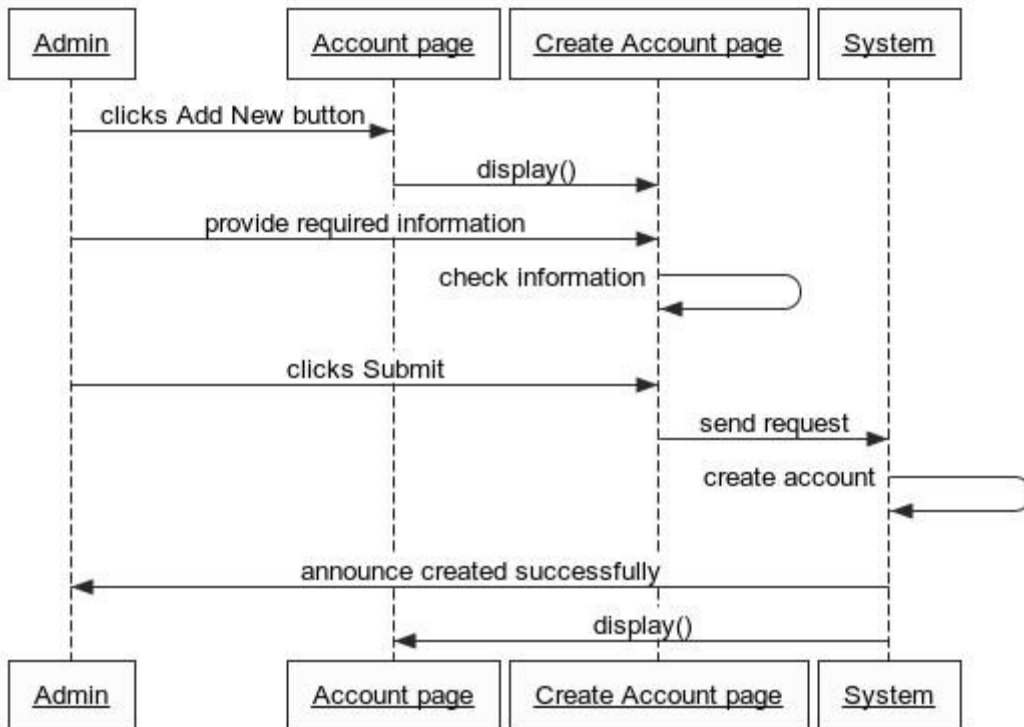


9.3.1.2 Add account

Use Case Name	Add account
Actors	Admin
Description	Admin wants to insert a new account into database.
Requirements	Admin clicks 'Add New' button in Account page.
Pre-conditions	Logged in Admin account.
Post-conditions	Success: New account is inserted into database.

<p>Basic flow</p>	<p>Actor Actions:</p> <ol style="list-style-type: none"> 1. Guest clicks 'Register' button at the top of the website 3. Guest fills in the form and clicks Create button [Exception 1] 	<p>System Responses:</p> <ol style="list-style-type: none"> 2. System redirects to Create Account page and displays Register form with the following control: <ul style="list-style-type: none"> ❖ Username textfield ❖ Password textfield ❖ Confirm password textfield ❖ Email textfield ❖ Firstname ❖ Lastname ❖ DOB ❖ Gender <ul style="list-style-type: none"> ➤ Male ➤ Female ❖ Phone ❖ Address <p>[Note 1]</p> 4. Systems check information & create new account and show 'Account has been created successfully' message.
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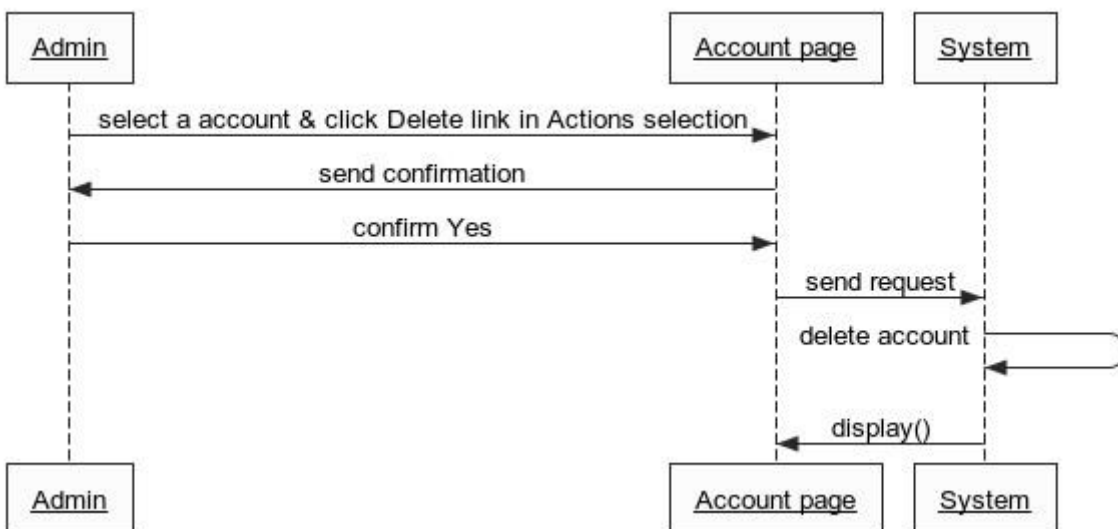
Note	<p>[Note 1] Information is validated on client-side:</p> <ul style="list-style-type: none"> ❖ Account Setup: <ul style="list-style-type: none"> ➤ Admin left any fields empty → Show 'This field is required' message ➤ Username or Password or Confirm Password has length less than 5 → Show 'Please enter at least 5 characters' message. ➤ Username has length greater than 20 → Show 'Username has maximum length is 20 characters' message. ➤ Password has length greater than 30 → Show 'Password has maximum length is 30 characters' message. ➤ Password and Confirm Password aren't matched → Show 'Please enter the same value again' message. ➤ Email isn't matched abc@abc.abc pattern → Show 'Please enter a valid email address' message. ➤ Email has length greater than 20 → Show 'Email has maximum length is 20 characters' message. ❖ Profile Setup: <ul style="list-style-type: none"> ➤ Admin left any fields empty → Show 'This field is required' message ➤ Firstname has length greater than 20 → Show 'Firstname has maximum 	
	<p>length is 20 characters' message.</p> <ul style="list-style-type: none"> ➤ Lastname has length greater than 20 → Show 'Lastname has maximum length is 20 characters' message. ➤ From year of birth to current year is less than 10 years → Show 'Member must be at least 10 years old' message. ➤ Phone has length greater than 15 → Show 'Phone number has maximum length is 15 characters' message. ➤ Address has length greater than 50 → Show 'Address has maximum length is 50 characters' message. <p><i>*Account Role is always has default value is 0 (Member) *</i></p>	
Alternative flow		
Exception	<p>Actor Actions: [Exception 1] 1. Any error in [Note 1] occurs</p>	<p>System Responses:</p> <p>2. Show 'You have some form error.Please check below' message</p>



9.3.1.3 Delete account

Use Case Name	Delete accounts	
Actors	Admin	
Description	Admin wants to delete a specific account in database.	
Requirements	Admin selects account and clicks Delete button in Actions column	
Pre-conditions	Logged in Admin account.	
Post-conditions	Success: Account is deleted from database.	
	Actor Actions	System Responses

Basic flow	1. Admin clicks Delete button in Actions column. 3. Admin selects 'Yes'. [Alternative flow 1]	2. System finds account that admin wants to delete and show a confirmation popup with 'Are you sure to delete this account' message. 4. System deletes account in database and reload Accounts page.
Alternative flow	Actor Actions: [Alternative flow 1] 1. Admin selects 'No'	System Responses: 2. Close confirmation popup and stay on Accounts page.
Exception		

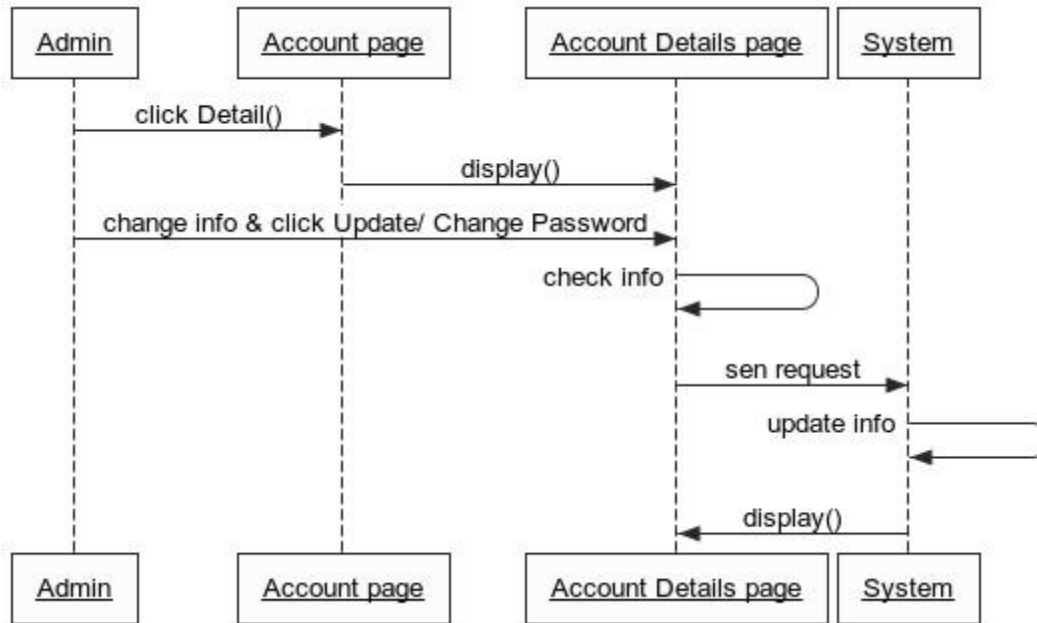


9.3.1.4 Update account

Use Case Name	Update account
Admins	Admin
Description	Admin wants to change information of a specific account.

Note	<p>[Note 1] Information is validated on client-side:</p> <ul style="list-style-type: none"> ❖ Personal Info form <ul style="list-style-type: none"> ➤ Admin left any fields empty → Show 'This field is required' message ➤ Email isn't matched abc@abc.abc pattern → Show 'Please enter a valid email address' message.
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	<ul style="list-style-type: none"> ➤ Email has length greater than 20 → Show 'Email has maximum length is 20 characters' message. ➤ Firstname has length greater than 20 → Show 'Firstname has maximum length is 20 characters' message. ➤ Lastname has length greater than 20 → Show 'Lastname has maximum length is 20 characters' message. ➤ From year of birth to current year is less than 10 years → Show 'Member must be at least 10 years old' message. ➤ Phone has length greater than 15 → Show 'Phone number has maximum length is 15 characters' message. ➤ Address has length greater than 50 → Show 'Address has maximum length is 50 characters' message. <ul style="list-style-type: none"> ❖ Change Password form <ul style="list-style-type: none"> ➤ Admin left any fields empty → Show 'This field is required' message ➤ Current Password or New Password or Confirm New Password has length less than 5 → Show 'Please enter at least 5 characters' message. ➤ Current Password or New Password or Confirm New Password has length greater than 30 → Show 'Password has maximum length is 30 characters' message. ➤ New Password and Confirm New Password aren't matched → Show 'Please enter the same value again' message. 	
Alternative flow	Admin Actions: [Alternative 1] 1. Admin clicks Cancel button.	System Responses: 2. Systems refills all controls with old information.
Exception	Admin Actions: [Exception 1] 1. Any error in [Note 1] occurs	System Responses: 2. Show 'You have some form errors .Please check below' message.

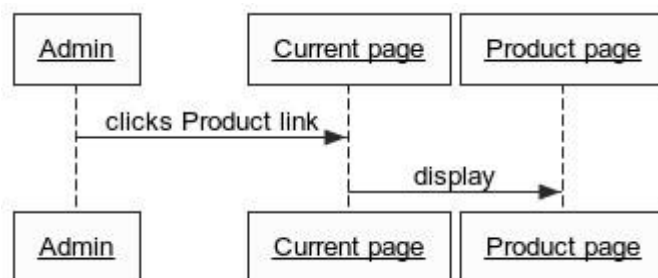


9.3.2 Manage Products

9.3.2.1 View products

Use Case Name	View products
Actors	Admin
Description	Admin wants to view a list of products in database.
Requirements	Admin clicks 'Product' option in the sidebar.
Pre-conditions	Logged in Admin account.
Post-conditions	Success: Open Product page which displays a list of all product in database.

Basic flow	<p>Actor Actions:</p> <ol style="list-style-type: none"> Admin clicks 'Product' option in the left menu. 	<p>System Responses:</p> <ol style="list-style-type: none"> System selects all products in database and shows them on Product page with following components: <ul style="list-style-type: none"> ❖ Number Of Records selection ❖ Search textfield ❖ Add New button ❖ Cateogry table <ul style="list-style-type: none"> ➤ No. ➤ Product Name ➤ Brand ➤ typeproduct ➤ Content ➤ Price ➤ Quantity
		➤ Actions:Delete Update
Alternative flow		
Exception		

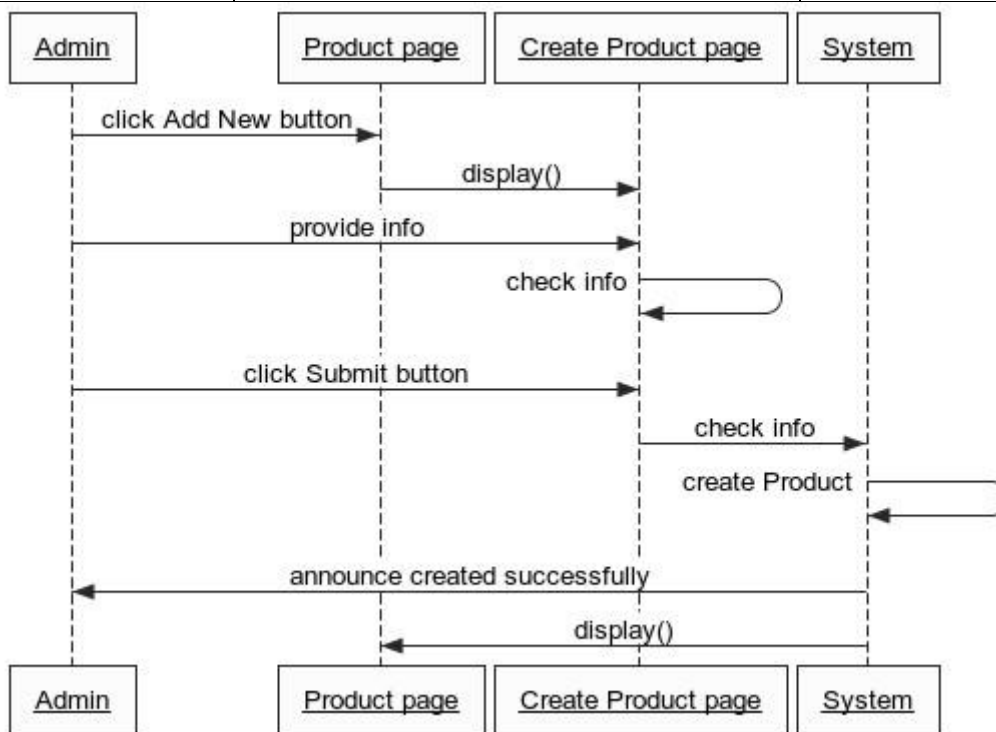


9.3.2.2 Add product

Use Case Name	Add product
Actors	Admin
Description	Admin wants to insert a new product into database.
Requirements	Admin clicks Add New button and provides product information.
Pre-conditions	Logged in Admin account.
Post-conditions	Success: New product is inserted into database.

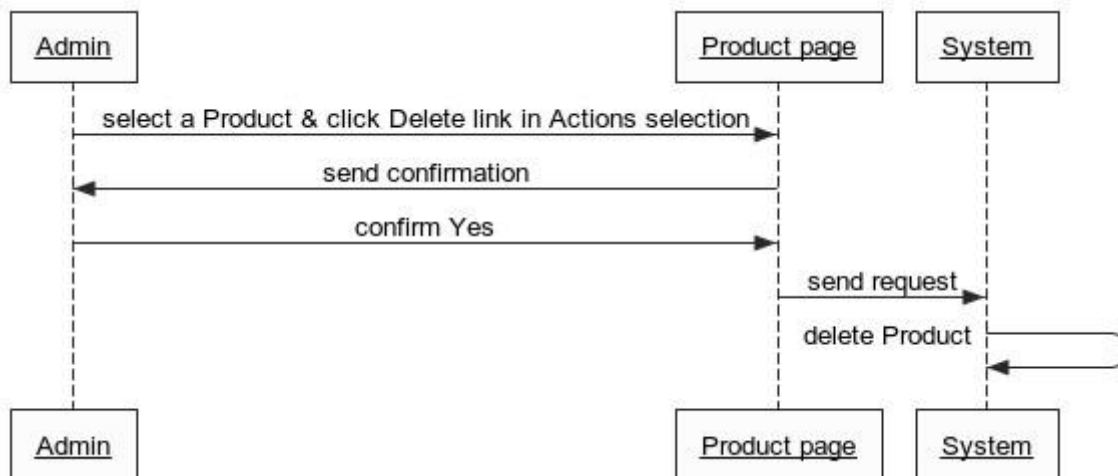
Basic flow	<p>Actor Actions:</p> <p>1. Admin clicks Add New button</p>	<p>System Responses:</p> <p>2. System redirects to Create Product page with following controls:</p> <ul style="list-style-type: none"> ❖ General Information <ul style="list-style-type: none"> ➤ Name textfield ➤ Brand selection ➤ Product type selection ➤ Price textfield ➤ Quantity textfield ➤ Content textarea ❖ Meta Data <ul style="list-style-type: none"> ➤ Add New button (click to add new meta) ➤ Meta Table (list of general meta) <ul style="list-style-type: none"> ▪ Meta Key ▪ Meta Value ▪ Actions ❖ Featured Image <ul style="list-style-type: none"> ➤ Images button (click to open selecting browser)
	<p>3. Admin provides required information and clicks 'Submit' button. [Note 1] [Exception 1]</p>	<ul style="list-style-type: none"> ➤ Image Table <ul style="list-style-type: none"> ▪ Image textfield ▪ Label textfield ▪ Action ❖ Submit button <p>4. System adds new product into database, shows 'Added new product successfully' and returns to Product page.</p>

Note	<p>[Note 1] Information is validated on client-side:</p> <ul style="list-style-type: none"> ❖ Admin left any field empty → Show 'This field is required' message ❖ General information <ul style="list-style-type: none"> ➢ Product Name has length greater than 50 → Show 'Product Name has maximum length is 50 characters' message. ➢ Price is less than 0 or Price is not a number → Show 'Price must be a number larger than 0' message. ➢ Quantity is less than 0 or larger than 999 or Quantity is not a number → Show 'Quantity must be a number between 0 and 999' message. ❖ Meta Data <ul style="list-style-type: none"> ➢ Meta Key has length greater than 50 → Show 'Meta Key has maximum length is 50 characters' message. ➢ Meta Value has length greater than 100 → Show 'Meta Value has maximum length is 100 characters' message. <p>Featured Image Admin didn't choose image type → Show 'Choose type for image' message.</p>	
Alternative flow		
Exception	<p>Actor Actions: [Exception 1] 1. Any error in [Note 1] occurs</p>	<p>System Responses: 2. Show 'You have some form errors .Please check below' message.</p>



9.3.2.3 Delete product

Use Case Name	Delete product	
Actors	Admin	
Description	Admin wants to delete a specific product in database.	
Requirements	Admin clicks Delete button in Actions column	
Pre-conditions	Logged in Admin product.	
Post-conditions	Success: Product is deleted from database.	
Basic flow	<p>Actor Actions:</p> <ol style="list-style-type: none"> Admin clicks Delete button in Actions column Admin selects 'Yes'. [Alternative flow 1] 	<p>System Responses:</p> <ol style="list-style-type: none"> System finds product that admin wants to delete and show a confirmation popup with 'Are you sure to delete this product' message. System deletes product in database and reload Product page.
Alternative flow	<p>Actor Actions:</p> <p>[Alternative flow 1]</p> <ol style="list-style-type: none"> Admin selects 'No' 	<p>System Responses:</p> <ol style="list-style-type: none"> Close confirmation popup and stay on Product page.
Exception		

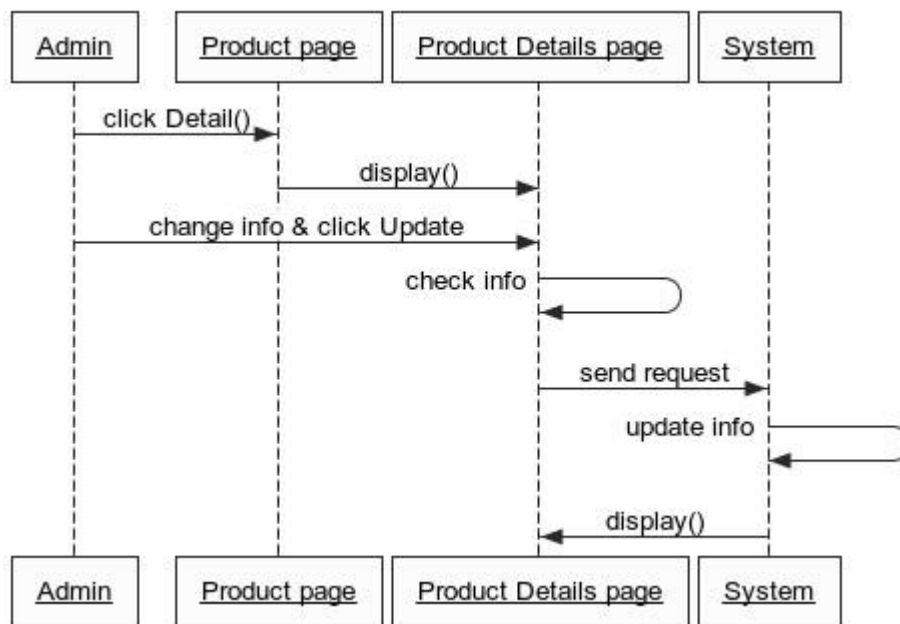


9.3.2.4 Update product

Use Case Name	Update product	
Actors	Admin	
Description	Admin wants to change information of a specific product.	
Requirements	Admin clicks Detail button in Actions column. Then admin changes product information in Update Product page.	
Pre-conditions	Logged in Admin account.	
Post-conditions	Success: Product information is updated.	
Basic flow	<p>Actor Actions:</p> <ol style="list-style-type: none"> Admin clicks Detail button in Actions column. 	<p>System Responses:</p> <ol style="list-style-type: none"> System redirects to Create Product page with following controls: <ul style="list-style-type: none"> ❖ General Information <ul style="list-style-type: none"> ➤ Name textfield ➤ Brand selection ➤ Product type selection ➤ Price textfield ➤ Quantity textfield ➤ Content textarea ❖ Meta Data <ul style="list-style-type: none"> ➤ Add New button (click to add new meta) ➤ Meta Table (list of general

	<p>3. Admin changes information and clicks 'Submit' button. [Note 1] [Exception 1] [Alternative 1]</p>	<ul style="list-style-type: none"> meta) <ul style="list-style-type: none"> ▪ Meta Key ▪ Meta Value ▪ Actions ❖ Featured Image <ul style="list-style-type: none"> ➤ Images button (click to open selecting browser) ➤ Image Table <ul style="list-style-type: none"> ▪ Image textfield ▪ Label textfield ▪ Action ❖ Submit button ❖ Cancel button <p>4. System changes product information into database and returns to Product page.</p>
Note	<p>[Note 1] Information is validated on client-side:</p> <ul style="list-style-type: none"> ❖ Admin left any field empty → Show 'This field is required' message ❖ General information <ul style="list-style-type: none"> ➤ Product Name has length greater than 50 → Show 'Product Name has maximum length is 50 characters' message. ➤ Price is less than 0 or Price is not a number → Show 'Price must be a number larger than 0' message. ➤ Quantity is less than 0 or larger than 999 or Quantity is not a number → Show 'Quantity must be a number between 0 and 999' message. ❖ Meta Data <ul style="list-style-type: none"> ➤ Meta Key has length greater than 50 → Show 'Meta Key has maximum length is 50 characters' message. ➤ Meta Value has length greater than 100 → Show 'Meta Value has maxium length is 100 characters' message. <p>Featured Image</p> <ul style="list-style-type: none"> ❖ Admin didn't choose image type → Show 'Choose type for image' message. 	

Alternative flow	Actor Actions: [Alternative 1] 1. Admin click Cancel button.	System Responses: 2. All controls are refilled with old information.
Exception	Actor Actions: [Exception 1]	System Responses:
	1. Any error in [Note 1] occurs	2. Show 'You have some form errors. Please check below' message.

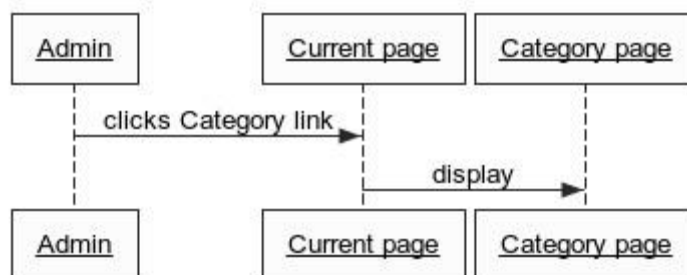


9.3.3 Manage Category

9.3.3.1 View Category

Use Case Name	View Category
Actors	Admin
Description	Admin wants to view a list of Category in database.
Requirements	Admin clicks 'Product Type' option in the sidebar.

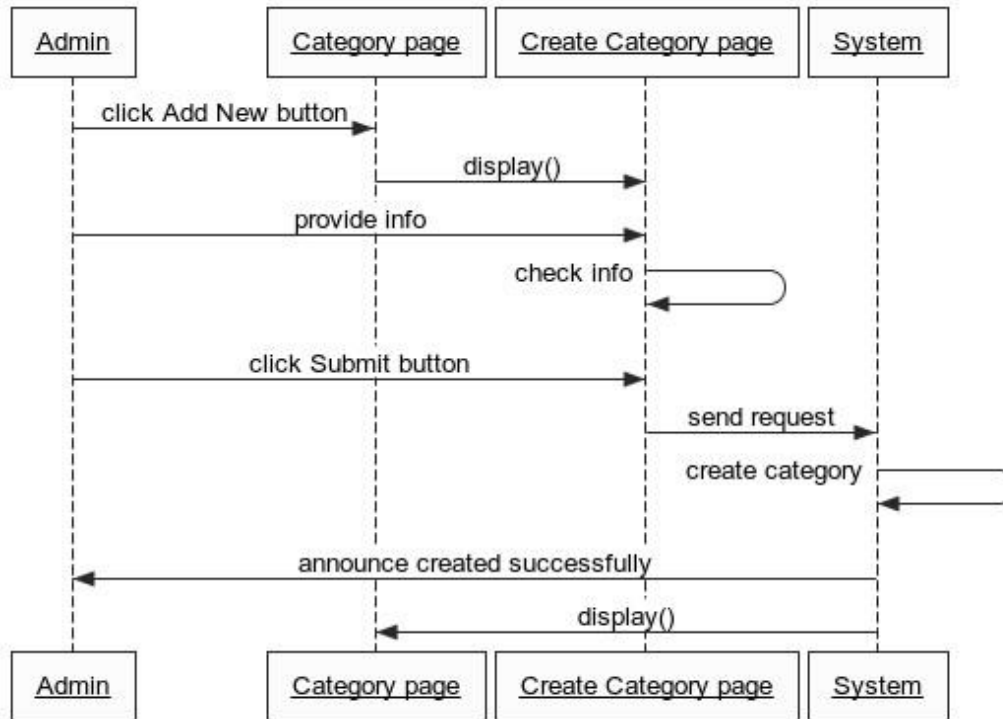
Pre-conditions	Logged in Admin account.	
Post-conditions	Success: Open Product Type page which displays a list of all Product Type in database.	
Basic flow	Actor Actions: 1. Admin clicks 'Product Type option in the left menu.	System Responses: 2. System selects all type product in database and shows them on product type page with following components: ❖ Number Of Records selection ❖ Search textfield ❖ Add New button
		❖ Category table ➤ No. ➤ Type product ➤ Actions:Delete Update
Alternative flow		
Exception		



9.3.3.2 Add product type

Use Case Name	Add product type
Actors	Admin
Description	Admin wants to insert a new product type into database.

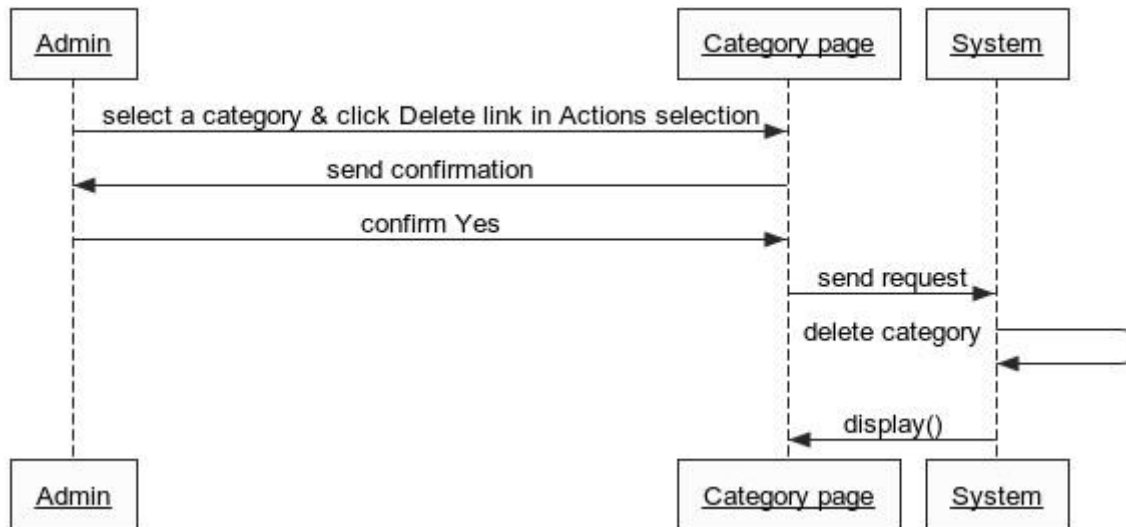
Requirements	Admin clicks Add New button and provides product type information.	
Pre-conditions	Logged in Admin account.	
Post-conditions	Success: New product type is inserted into database.	
Basic flow	<p>Actor Actions:</p> <ol style="list-style-type: none"> Admin clicks Add New button Admin provides required information and clicks 'Submit' button. [Note 1] [Exception 1] 	<p>System Responses:</p> <ol style="list-style-type: none"> System redirects to Create product type page with following controls: <ul style="list-style-type: none"> ❖ product type Name textfield System inserts new product type into database and returns to product type page.
Note	<p>[Note 1] Information is validated on client-side:</p> <ul style="list-style-type: none"> ❖ Admin left product type Name field empty → Show 'This field is required' message ❖ Product type Name has length greater than 20 → Show 'Product type Name has maximum length is 20 characters' message. 	
Alternative flow		
Exception	<p>Actor Actions:</p> <p>[Exception 1]</p> <ol style="list-style-type: none"> Any error in [Note 1] occurs 	<p>System Responses:</p> <ol style="list-style-type: none"> Show 'You have some form errors .Please check below' message.



9.3.3.3 Delete Product type

Use Case Name	Delete Product type	
Actors	Admin	
Description	Admin wants to delete a specific Product type in database.	
Requirements	Admin clicks Delete button in Actions column	
Pre-conditions	Logged in Admin Product type.	
Post-conditions	Success: Product type is deleted from database.	
Basic flow	<p>Actor Actions:</p> <ol style="list-style-type: none"> Admin clicks Delete button in Actions column Admin selects 'Yes'. [Alternative flow 1] 	<p>System Responses:</p> <ol style="list-style-type: none"> System finds Product type that admin wants to delete and show a confirmation popup with 'Are you sure to delete this Product type message.' System deletes Product type in database and reload Product type page.

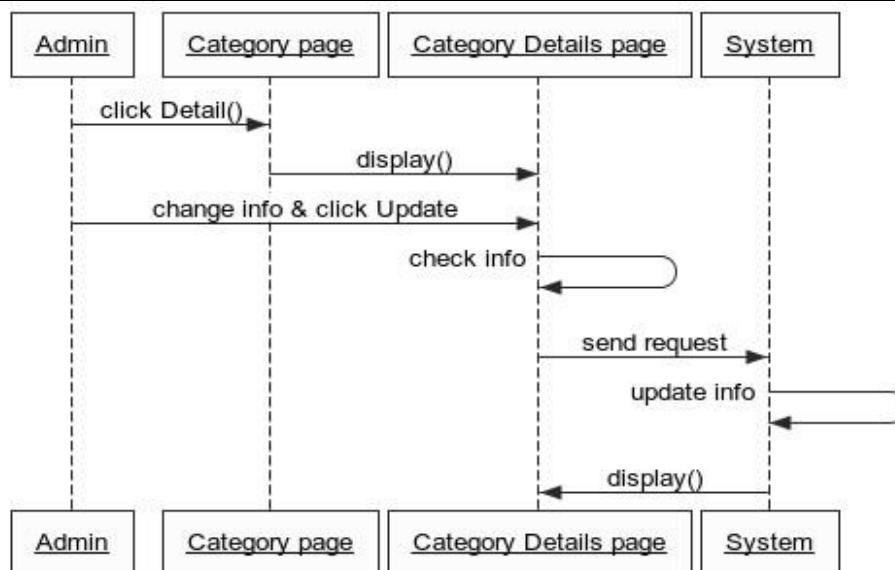
Alternative flow	Actor Actions: [Alternative flow 1] 1. Admin selects 'No'	System Responses: 2. Close confirmation popup and stay on Product type page.
Exception		



9.3.3.3 Update Product type

Use Case Name	Update Product type
Actors	Admin
Description	Admin wants to change information of a specific Product type.
Requirements	Admin clicks Detail button in Actions column. Then admin changes Product type information in Update Product type page.
Pre-conditions	Logged in Admin account.
Post-conditions	Success: Product type information is updated.

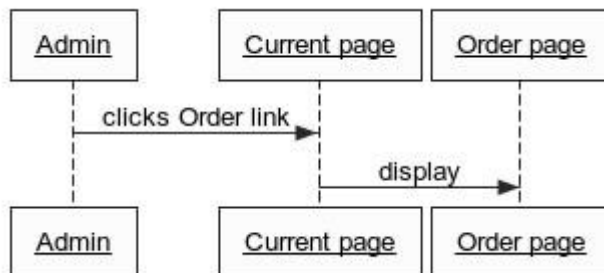
Basic flow	<p>Actor Actions:</p> <ol style="list-style-type: none"> Admin clicks Detail button in Actions column. Admin changes information and clicks 'Update' button. [Note 1] [Exception 1] 	<p>System Responses:</p> <ol style="list-style-type: none"> System redirects to Create Product type page with following controls: <ul style="list-style-type: none"> ❖ Product type Name textfield Controls value is Product type information. System changes Product type information into database and returns to Product type page.
Note	<p>[Note 1] Information is validated on client-side:</p> <ul style="list-style-type: none"> ❖ Admin left Product type Name field empty → Show 'This field is required' message ❖ Product type Name has length greater than 20 → Show 'Product type Name has maximum length is 20 characters' message. 	
Alternative flow		
Exception	<p>Actor Actions:</p> <p>[Exception 1]</p> <ol style="list-style-type: none"> Any error in [Note 1] occurs 	<p>System Responses:</p> <ol style="list-style-type: none"> Show 'You have some form errors. Please check below' message.



9.3.4 Manage Orders

9.3.4.1 View orders

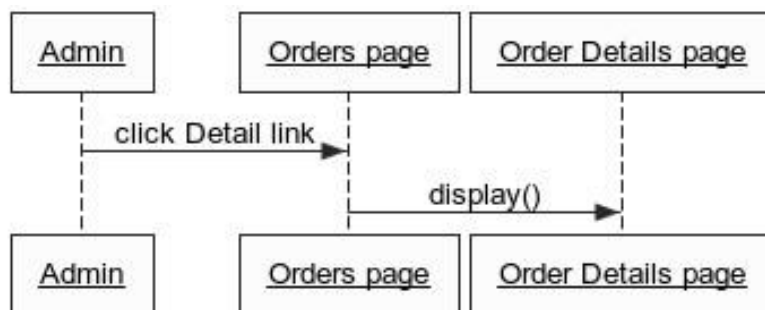
Use Case Name	View orders	
Actors	Admin	
Description	Admin wants to view a list of orders in database.	
Requirements	Admin clicks Order option in the sidebar.	
Pre-conditions	Logged in Admin account.	
Post-conditions	Success: Open Order page which displays a list of all order in database.	
Basic flow	Actor Actions: 1. Admin clicks 'Order' option in the left menu.	System Responses: 2. System selects all orders in database and shows them on Order page with following components: <ul style="list-style-type: none">❖ Number Of Records selection❖ Search textfield❖ Add New button❖ Order table<ul style="list-style-type: none">➤ No.➤ Purchase date➤ Customer name➤ Shipping address➤ Total price➤ Status➤ Actions:Update Delete
Alternative flow		
Exception		



9.3.4.2 View orders detail

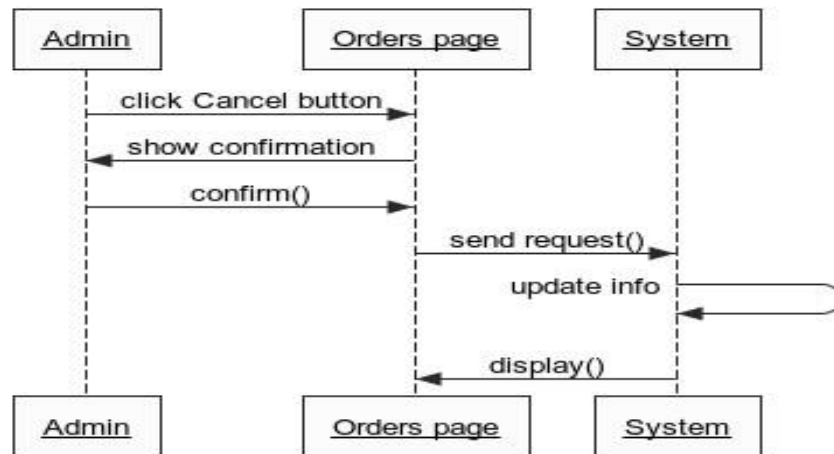
Use Case Name	View orders
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Actors	Admin	
Description	Admin wants to view details of a specific order.	
Requirements	Admin clicks 'Detail' link in Action column	
Pre-conditions	Logged in Admin account and being at Orders page.	
Post-conditions	Success: Open Order Details page.	
Basic flow	<p>Actor Actions:</p> <ol style="list-style-type: none"> Admin clicks 'Detail' link in Action column 	<p>System Responses:</p> <ol style="list-style-type: none"> System open Order Details page with following components: <ul style="list-style-type: none"> ❖ Orders Information ➤ <ul style="list-style-type: none"> ➤ Order no. ➤ Order Date & Time ➤ Grand total ➤ Payment Method ❖ Customer Information <ul style="list-style-type: none"> ➤ Customer Name ➤ Email ➤ State ➤ Phone Number ❖ Billing Address ❖ Shipping Address Order Details table <ul style="list-style-type: none"> ➤ No. ➤ Product Name ➤ Status ➤ Price ➤ Quantity ➤ Tax Percent ➤ Discount ➤ Total ➤ Action: Update Delete
Alternative flow		
Exception		



9.3.4.3 Update orders

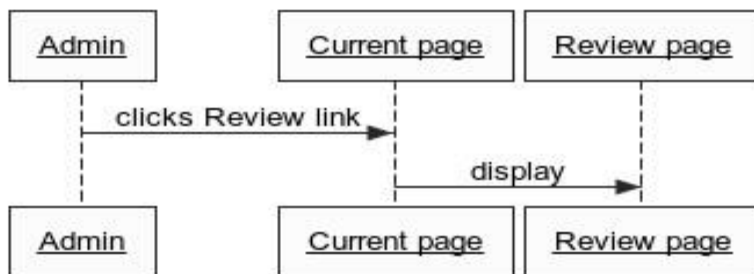
Use Case Name	Update Order	
Actors	Admin	
Description	Admin wants to change status of a specific Order. (Admin can only change Order Status)	
Requirements	Admin clicks Cancel button in Actions column. <i>*Admin can only update Status of order</i>	
Pre-conditions	Logged in Admin account.	
Post-conditions	Success: Order information is updated.	
Basic flow	Actor Actions: 1. Admin Click button in Actions column. 3. Click 'Yes' [Alternative 1]	System Responses: 2. System show confirmation 4. Update order status to 'Canceled'
Note		
Alternative flow	Actor Actions: [Alternative 1] 1. Click 'No'	System Responses: 2. Stay on page
Exception		



9.3.5 Manage Review

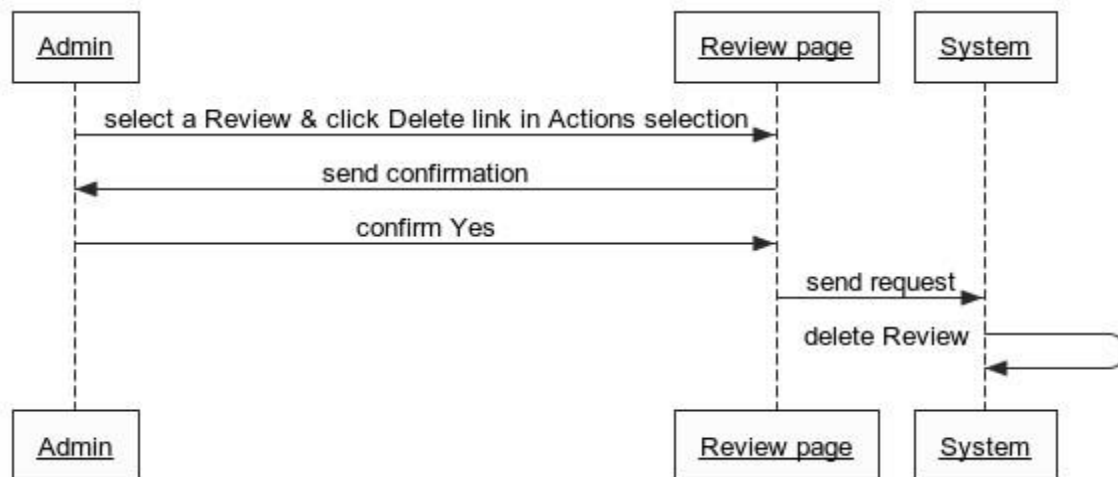
9.3.5.1 View reviews

Use Case Name	View reviews	
Actors	Admin	
Description	Admin wants to view a list of reviews in database.	
Requirements	Admin clicks 'Review' option in the sidebar.	
Pre-conditions	Logged in Admin account.	
Post-conditions	Success: Open Review page which displays a list of all review in database.	
Basic flow	Actor Actions: 1. Admin clicks 'Review' option in the left menu.	System Responses: 2. System selects all reviews in database and shows them on Review page with following components: <ul style="list-style-type: none">❖ Number Of Records selection❖ Search textfield❖ Review table ➤ No.<ul style="list-style-type: none">➤ Account Name➤ Product Name➤ Rating➤ Content➤ Actions:Details Delete
Alternative flow		
Exception		



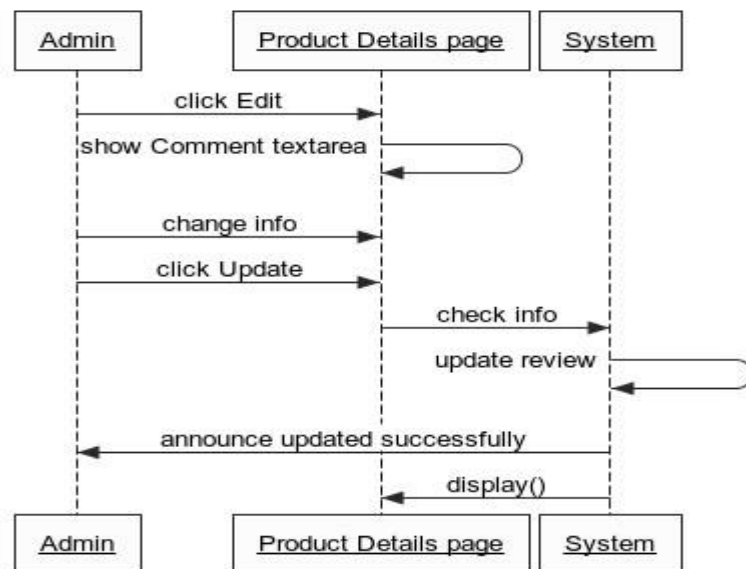
9.3.5.2 Delete review

Use Case Name	Delete Review	
Actors	Admin	
Description	Admin wants to delete a specific Review in database.	
Requirements	Admin clicks Delete button in Actions column	
Pre-conditions	Logged in Admin Review.	
Post-conditions	Success: Review is deleted from database.	
Basic flow	<p>Actor Actions:</p> <ol style="list-style-type: none"> Admin clicks Delete button in Actions column Admin selects 'Yes'. [Alternative flow 1] 	<p>System Responses:</p> <ol style="list-style-type: none"> System finds Review that admin wants to delete and show a confirmation popup with 'Are you sure to delete this Review' message. System deletes Review in database and reload Review page.
Alternative flow	<p>Actor Actions:</p> <p>[Alternative flow 1]</p> <ol style="list-style-type: none"> Admin selects 'No' 	<p>System Responses:</p> <ol style="list-style-type: none"> Close confirmation popup and stay on Review page.
Exception		



Post-conditions		
Basic flow		
Alternative flow		
Exception		

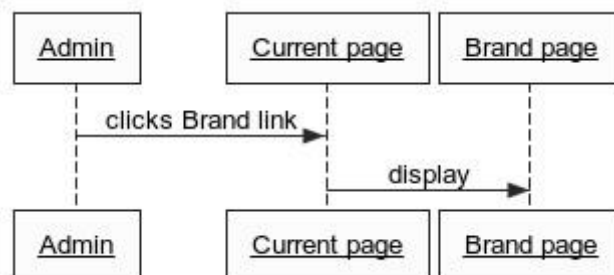
9.3.5.3 Update review



9.3.6 Manage Brand

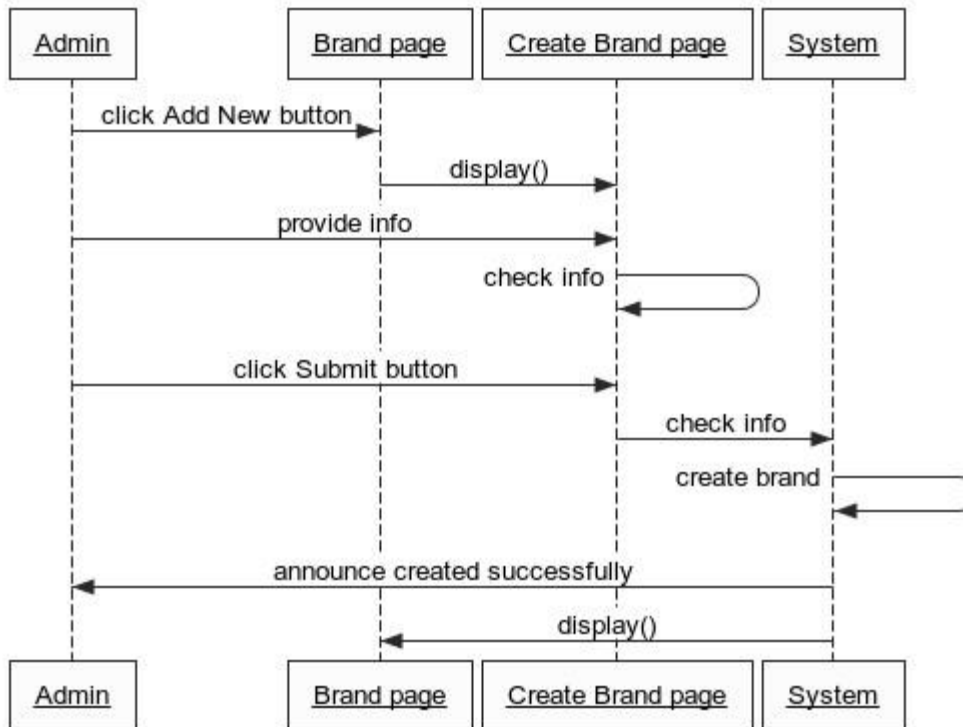
9.3.6.1 View brands

Use Case Name	View brands	
Actors	Admin	
Description	Admin wants to view a list of brands in database.	
Requirements	Admin clicks 'Brand' option in the sidebar.	
Pre-conditions	Logged in Admin account.	
Post-conditions	Success: Open Brand page which displays a list of all brand in database.	
Basic flow	Actor Actions: 1. Admin clicks 'Brand' option in the left menu.	System Responses: 2. System selects all brands in database and shows them on Brand page with following components: <ul style="list-style-type: none">❖ Number Of Records selection❖ Search textfield❖ Add New button❖ Cateogry table<ul style="list-style-type: none">➤ No.➤ Brand Name➤ Actions:Delete Update
Alternative flow		
Exception		



9.3.6.2 Add brand

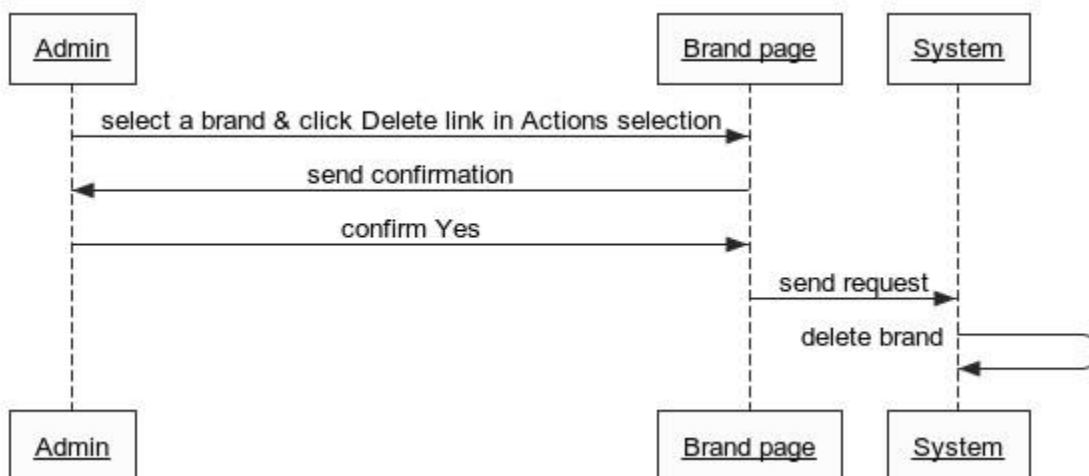
Use Case Name	Add brand	
Actors	Admin	
Description	Admin wants to insert a new brand into database.	
Requirements	Admin clicks Add New button and provides brand information.	
Pre-conditions	Logged in Admin account.	
Post-conditions	Success: New brand is inserted into database.	
Basic flow	Actor Actions: 1. Admin clicks Add New button 3. Admin provides required information and clicks 'Submit' button. [Note 1] [Exception 1]	System Responses: 2. System redirects to Create Brand page with following controls: ❖ Brand Name textfield ❖ Select image textfield 4. System inserts new brand into database and returns to Brand page.
Note	[Note 1] Information is validated on client-side: ❖ Admin left any field empty → Show 'This field is required' message ❖ Brand Name has length greater than 20 → Show 'Brand Name has maximum length is 20 characters' message.	
Alternative flow		
Exception	Actor Actions: [Exception 1] 1. Any error in [Note 1] occurs	System Responses: 2. Show 'You have some form errors .Please check below' message.



9.3.6.3 Delete brand

Use Case Name	Delete brand
Actors	Admin
Description	Admin wants to delete a specific brand in database.
Requirements	Admin clicks Delete button in Actions column
Pre-conditions	Logged in Admin brand.
Post-conditions	Success: Brand is deleted from database.

Basic flow	<p>Actor Actions:</p> <ol style="list-style-type: none"> Admin clicks Delete button in Actions column Admin selects 'Yes'. [Alternative flow 1] 	<p>System Responses:</p> <ol style="list-style-type: none"> System finds brand that admin wants to delete and show a confirmation popup with 'Are you sure to delete this brand' message. System deletes brand in database and reload Brand page.
Alternative flow	<p>Actor Actions:</p> <p>[Alternative flow 1]</p> <ol style="list-style-type: none"> Admin selects 'No' 	<p>System Responses:</p> <ol style="list-style-type: none"> Close confirmation popup and stay on Brand page.
Exception		

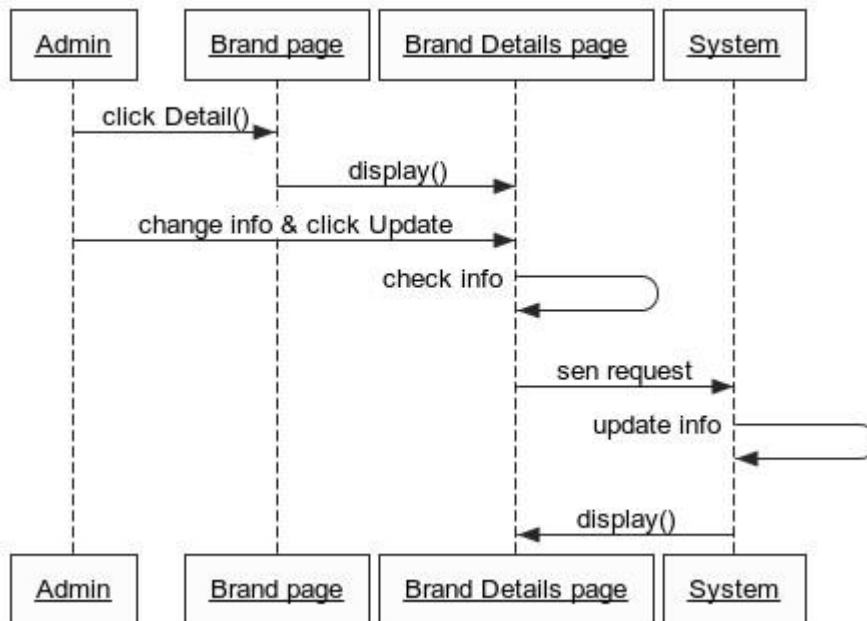


9.3.6.4 Update brand

Use Case Name	Update brand
Actors	Admin

Description	Admin wants to change information of a specific brand.
Requirements	Admin clicks Detail button in Actions column. Then admin changes brand information in Update Brand page.
Pre-conditions	Logged in Admin account.

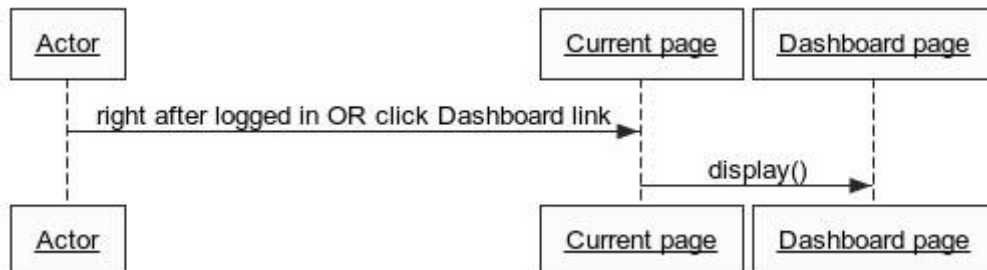
Post-conditions	Success: Brand information is updated.	
Basic flow	<p>Actor Actions:</p> <ol style="list-style-type: none"> Admin clicks Detail button in Actions column. Admin changes information and clicks 'Submit' button. [Note 1] [Exception 1] 	<p>System Responses:</p> <ol style="list-style-type: none"> System redirects to Create Brand page with following controls: <ul style="list-style-type: none"> ❖ Brand Name textfield ❖ Select Image textfield Controls value is brand information. System changes brand information into database and returns to Brand page.
Note	<p>[Note 1] Information is validated on client-side:</p> <ul style="list-style-type: none"> ❖ Admin left Brand Name field empty → Show 'This field is required' message ❖ Brand Name has length greater than 20 → Show 'Brand Name has maximum length is 20 characters' message. 	
Alternative flow		
Exception	<p>Actor Actions:</p> <p>[Exception 1]</p> <ol style="list-style-type: none"> Any error in [Note 1] occurs 	<p>System Responses:</p> <ol style="list-style-type: none"> Show 'You have some form errors. Please check below' message.



9.3.8 View Reports

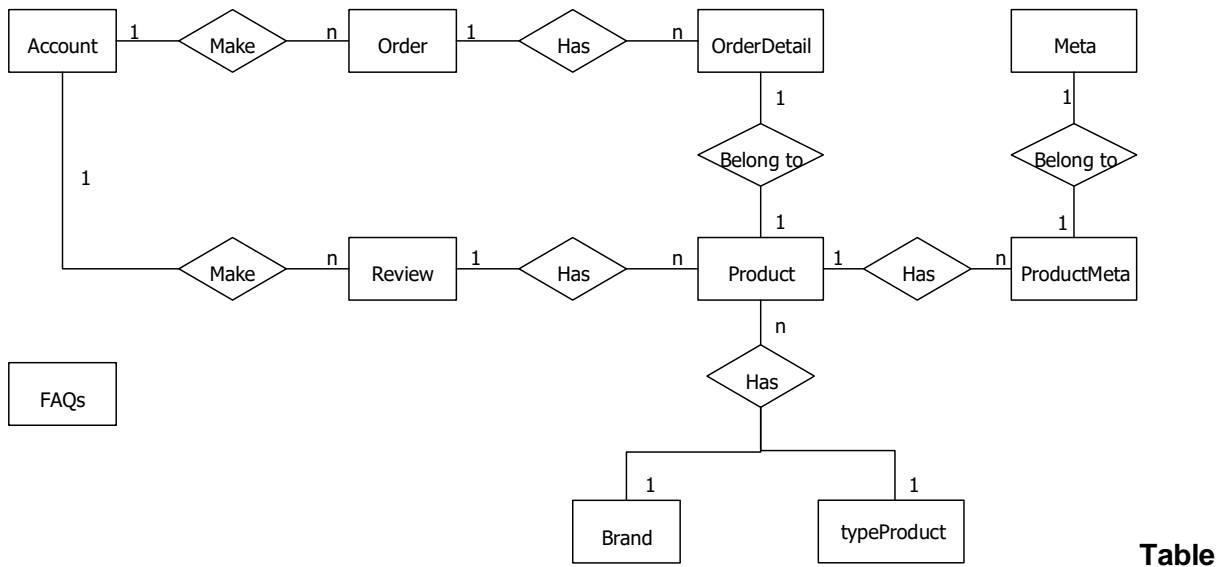
Use Case Name	View reports
Actors	Admin
Description	Admin can view reports about the website on Dashboard page.
Requirements	Log in or click Dashboard link on the left Menu.
Pre-conditions	Logged in Admin account.
Post-conditions	Success: Open Dashboard page.

Basic flow	<p>Actor Actions:</p> <ol style="list-style-type: none"> 1. Right after admin logged in OR clicks Dashboard link on the left Menu. 	<p>System Responses:</p> <ol style="list-style-type: none"> 2. System redirects to Dashboard page which displays following reports: <ul style="list-style-type: none"> ❖ Total reports: show total numbers <ul style="list-style-type: none"> ➤ Total profit ➤ Total reviews ➤ Total orders ➤ Total accounts ❖ Overview (weekly stats): show top 7 of weekly activities <ul style="list-style-type: none"> ➤ Top selling ➤ Most viewed ➤ Customers ➤ Orders <ul style="list-style-type: none"> ▪ Last 10 orders ▪ Pending orders ▪ Success orders ▪ Canceled orders
Alternative flow		
Exception		

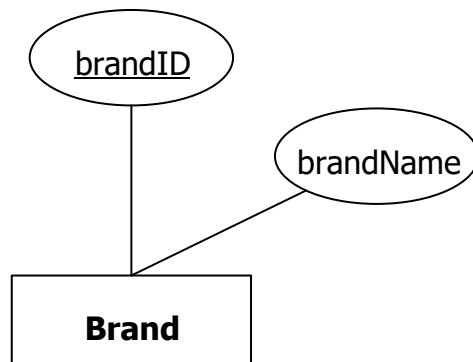


10 Entity Relationship Diagram (ERD)

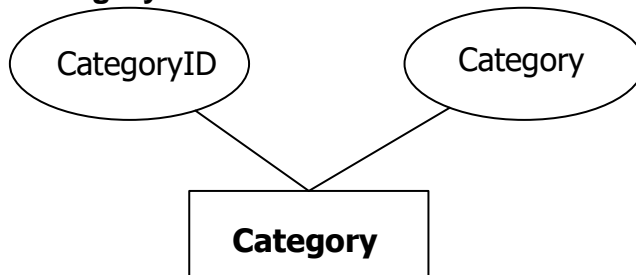
10.1 Logical



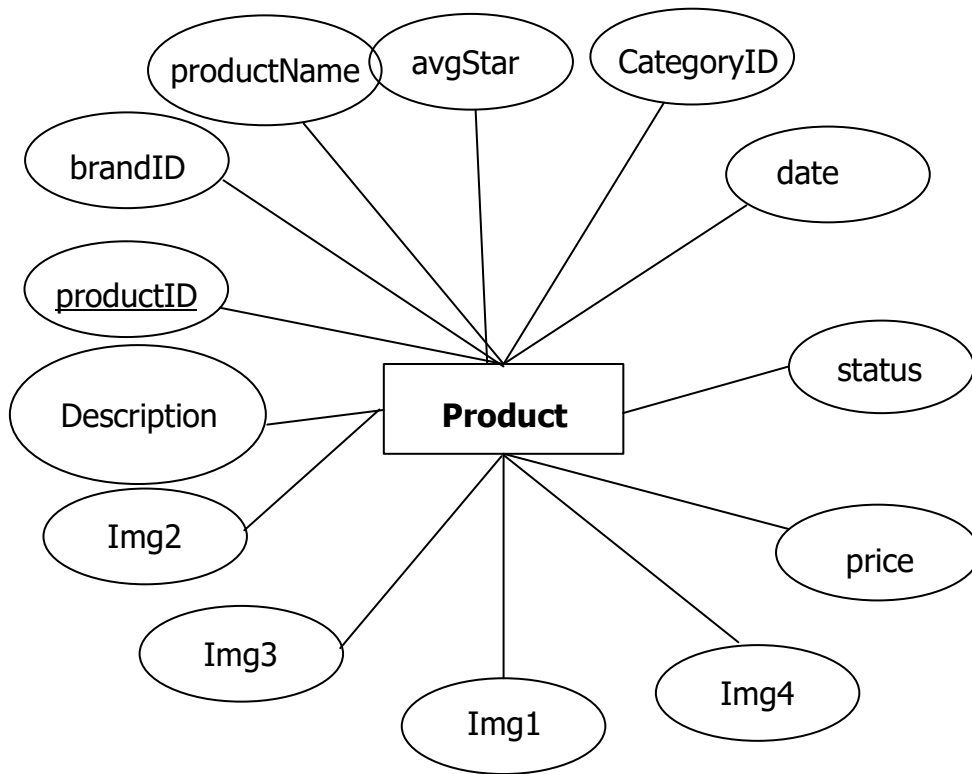
10.2.1 Brand



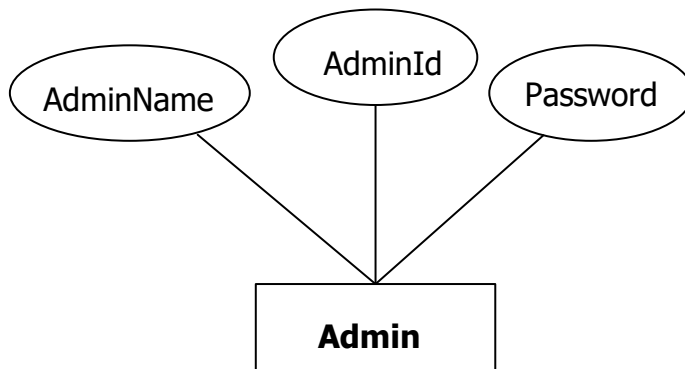
10.2.2 Category



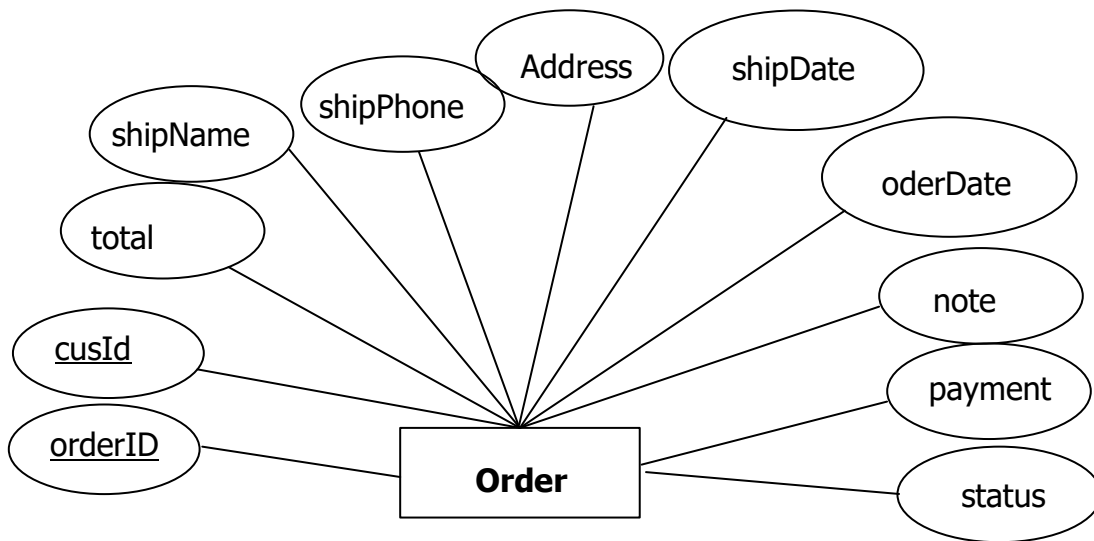
10.2.3 Product



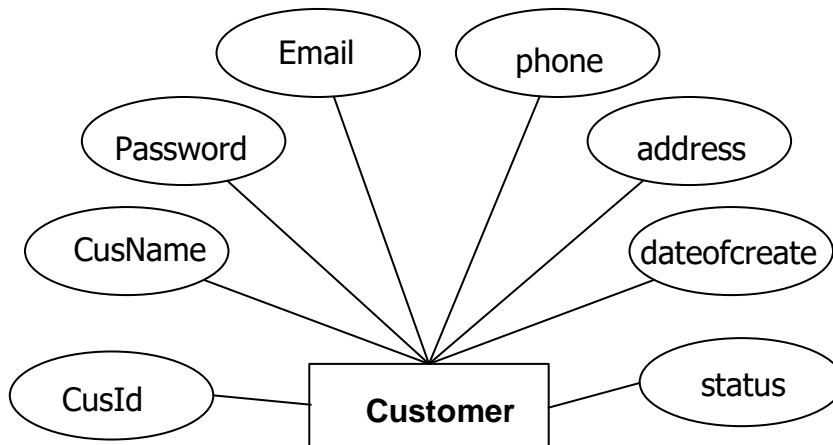
10.2.4 Admin



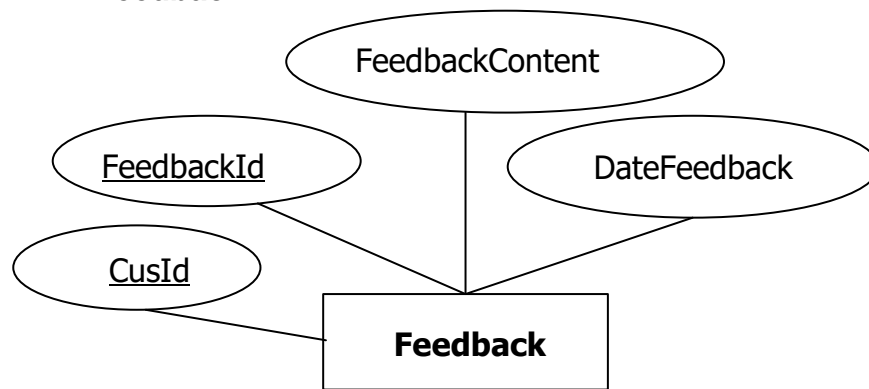
10.2.5 Orders



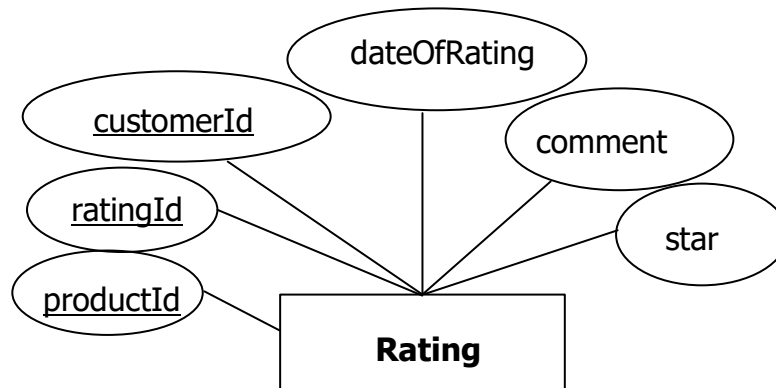
10.2.6 Customer



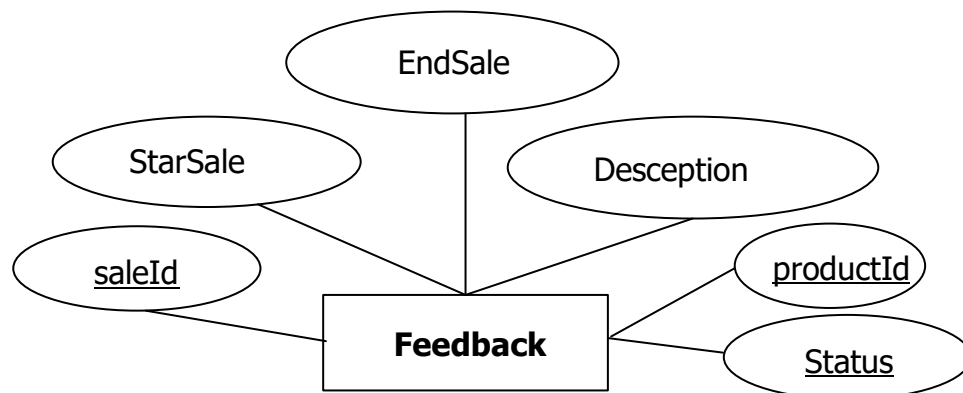
10.2.7 Feedback



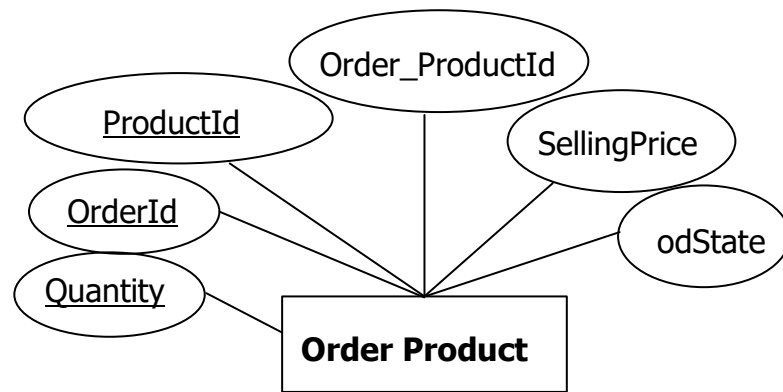
10.2.8 Rating



10.2.9 EventSale



10.2.10 Order Product



12. Tasksheet

Project Ref. No.		Project Name: Big Mobiles	Date of Preparation of Activity Plan		
No.	Task	Description	Start Date	Complete Date	Team member
1	Review 2		15/05/2019	15/05/2019	Nguyen Phuc Nguyen
6		Guests-Compare product			Tran Van Thang
		Guests-Feedback			
		Guests-Forgot Password			
7		Admin-Login			
		Admin -ManageOrders			
		Admin -ManageCustomer			
8		Admin -ManageFeedback			
9		Guests-Filter by Price			Vu Xuan Loc
		Guests-Filter by Brand			
		Guests-Filter by Category			
10		Guest-Rating			
11		Guest-Review Product			
		Admin-ManageCategory			
		Admin-ManageEventSale			
		Admin-ManageBrand			
12		Admin-ManageProduct			Nguyen Khac Thuong
13		Guest –Shopping cart			
		Guest-Build Computer			
		Guest -Register			
		Guest -Login			
14		Guest-Search Header			
15		Guests-Changes Profile			

