
Use Cases

for

Appliances Retailer Management

Version 1.0 approved

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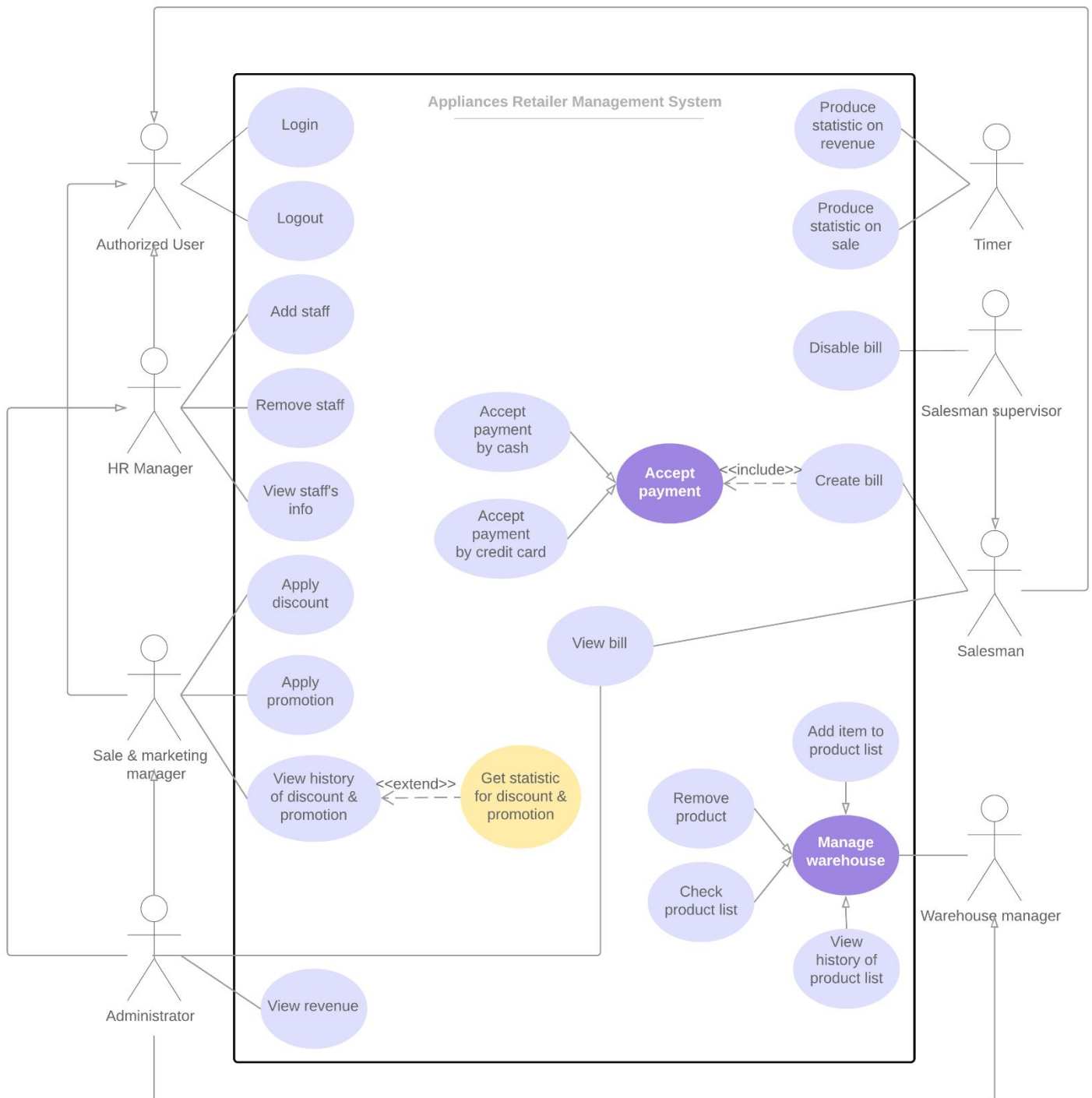
Group 6

09-09-2018

Revision History

Name	Date	Reason For Changes	Version
Duc Tho Tran	09/10/2018	Init draft	1.0
Hoan Thien Nguyen	09/10/2018	Change UC	1.0
Duc Tho Tran	10/10/2018	Review	1.0 approved

Use Case Diagram



Use Case Description

UC-1. Login

UC ID and Name:	UC-1 Login		
Created By:	Duc Tho Tran	Date Created:	09/10/2018
Actor:	Authorized User		
Trigger:	User indicates that he wants to login into system.		
Description:	Users want to log on to the system with a registered role to perform their tasks and use system resources.		
Preconditions:	PRE-1. The account has been initialized.		
Postconditions:	POST-1. The user logged into the system corresponding to their role.		
Normal Flow:	1. User opens the application. 2. System will ask user for username and password. 3. If username and password are valid, system will show the display corresponding to their role.		
Alternative Flows:	3.1. If username or password is invalid, system notifies for user.		
Exceptions:	EX-1. User's input is invalid format.		
Priority:	Low		
Frequency of Use:	Medium		
Business Rules:	BR-1. Every staff has an account to login into system.		

UC-2. Logout

UC ID and Name:	UC-2 Logout		
Created By:	Duc Tho Tran	Date Created:	09/10/2018
Actor:	Authorized User		
Trigger:	User indicates that he wants to logout of system.		
Description:	The user wants to log out, not use system resources anymore.		
Preconditions:	PRE-1. Authorized user logged into system.		
Postconditions:	POST-1. The user successfully logs out.		
Normal Flow:	1. User clicks on the Logout button. 2. System clears their session, and then notifies on the screen logout success.		
Priority:	Low		
Frequency of Use:	Medium		
Business Rules:	BR-1. Every staff has an account to login into system. BR-2. Every staff must logout at the end of their shift.		

UC-3. Add staff

UC ID and Name:	UC-3 Add staff		
Created By:	Duc Tho Tran	Date Created:	09/10/2018
Actor:	HR Manager, Administrator		
Trigger:	User indicates that he wants to add new staff.		
Description:	User wants to declare new staffs to the system, so they can log into the system and use resources corresponding to their role.		
Preconditions:	PRE-1. Authorized user logged into system as HR Manager or Administrator role.		
Postconditions:	POST-1. New staff has been added.		
Normal Flow:	<ol style="list-style-type: none"> 1. User chooses to add a new staff. 2. System displays the fields to fill in information about the new staff. 3. User inputs staff's information. 4. User clicks on "Add" button 5. System displays notification to confirm addition. 6. If user agrees, system stores staff's information. 		
Alternative Flows:	6.1. If user does not agree, the notification disappears.		
Exceptions:	EX-1. User inputs wrong format for staff's information.		
Priority:	Medium		
Frequency of Use:	Low		
Business Rules:	BR-1. Every staff has an account to login into system.		

UC-4. Remove staff

UC ID and Name:	UC-4 Remove staff		
Created By:	Duc Tho Tran	Date Created:	09/10/2018
Actor:	HR Manager, Administrator		
Trigger:	User indicates that he wants to remove a staff.		
Description:	User wants to make a staff redundant.		
Preconditions:	PRE-1. Authorized user logged into system as HR Manager or Administrator role.		
Postconditions:	POST-1. All of chosen staff has been removed.		
Normal Flow:	<ol style="list-style-type: none"> 1. User chooses to remove staffs. 2. System displays all of staff grouped by their role. 3. User ticks employees who are about to be removed. 4. User clicks on "Remove" button. 5. System displays notification to confirm deletion of staffs and requires inputting the reason for remove. 6. If user agrees and fills the input, system disables all of 		

	selected staffs.
Alternative Flows:	6.1. If user does not agree, the notification disappears.
Priority:	High
Frequency of Use:	Low
Business Rules:	BR-1. When a staff leaves the company, their account will be disabled.

UC-5. View staff's information

UC ID and Name:	UC-5 View staff's information		
Created By:	Duc Tho Tran	Date Created:	09/10/2018
Actor:	HR Manager, Administrator		
Trigger:	User indicates that he wants to view staff's information.		
Description:	User wants to view staffs' information.		
Preconditions:	PRE-1. Authorized user logged into system as HR manager or Administrator role.		
Normal Flow:	<ol style="list-style-type: none"> 1. User chooses to view staff's information. 2. The system displays a text field where user can search by staff's name. 3. User chooses a staff from the list displayed 4. User clicks on "View" button. 5. The system display staffs' information. 		
Priority:	High		
Frequency of Use:	Medium		

UC-6. Apply discount

UC ID and Name:	UC-6 Apply discount		
Created By:	Hoan Thien Nguyen	Date Created:	09/10/2018
Actor:	Sale & Marketing manager, Administrator		
Trigger:	User indicates that she wants to apply discount policy		
Description:	User wants to apply discount on some products.		
Preconditions:	PRE-1. Authorized user logged into system as Sale & Marketing manager or Administrator role.		
Postconditions:	POST-1. Discount has been applied.		
Normal Flow:	<ol style="list-style-type: none"> 1. User chooses products 2. User chooses customer type 3. User inputs discount rate 4. User chooses time interval 5. User reviews promotion policy which has just been 		

	made 6. User chooses to apply 7. The system saves the information
Alternative Flows:	5a. User chooses to abort 5b. Return to step 1
Priority:	High
Frequency of Use:	Medium
Business Rules:	BR-1. Amount of money to be paid will be: $(1 - \text{discount rate}) \times \text{price}$.

UC-7. Apply promotion

UC ID and Name:	UC-7 Apply promotion		
Created By:	Thien Hoan Nguyen	Date Created:	09/10/2018
Actor:	Sale & Marketing manager, Administrator		
Trigger:	User indicates that she wants to apply promotion		
Description:	User wants to apply promotion on some products.		
Preconditions:	PRE-1. Authorized user logged into system as Sale & Marketing manager or Administrator role.		
Postconditions:	POST-1. Promotion has been applied.		
Normal Flow:	1. User chooses products 2. User chooses customer type 3. User choose products to be given as bonus 4. User chooses time interval 5. User reviews promotion policy which has just been made 6. User chooses to apply 7. The system saves the information		
Alternative Flows:	5a. User choose to abort 5b. Return to step 1		
Priority:	High		
Frequency of Use:	Medium		
Business Rules:	BR-7: Products given as bonus will be 0 as long as it is bought with specific products.		

UC-8. View history of discount & promotion

UC ID and Name:	UC-8 View history of discount & promotion		
Created By:	Duc Tho Tran	Date Created:	09/10/2018
Actor:	Sale & Marketing manager, Administrator		
Trigger:	User indicates that he wants to view history of discount &		

	promotion.
Description:	User indicates that she wants to view discount & promotion history.
Preconditions:	PRE-1. Authorized user logged into system as Sale & Marketing manager or Administrator role.
Normal Flow:	<ol style="list-style-type: none"> 1. User chooses to view history of discount and promotion 2. User chooses which store/whole system 3. User chooses time interval 4. User clicks View button 5. System displays history of discount and promotion
Priority:	High
Frequency of Use:	Medium
Business Rules:	BR-1. Sale & Marketing manager must review their discount & promotion twice times a month.

UC-9. Get statistic for discount & promotion

UC ID and Name:	UC-9 Get statistic for discount & promotion		
Created By:	Hoan Thien Nguyen	Date Created:	09/10/2018
Actor:	Sale & Marketing manager, Administrator		
Trigger:	User indicates that he wants to get statistic for discount & promotion.		
Description:	User wants to see stats with percentages to evaluate their performance.		
Preconditions:	PRE-1. Authorized user logged into system as Sale & Marketing manager or Administrator role.		
Normal Flow:	<ol style="list-style-type: none"> 1. User chooses to get statistic for discount & promotion. 2. System asks user to choose a period time. 3. User chooses a period time. 4. System calculates statistic and displays it in the form of number and chart in that period time. 		
Priority:	High		
Frequency of Use:	Medium		

UC-10. Produce statistic on revenue

UC ID and Name:	UC-10 Produce statistic on revenue		
Created By:	Hoan Thien Nguyen	Date Created:	09/10/2018
Actor:	Timer		
Description:	Each month, the system produces statistical data on revenue for all stores. The data then will be sent to the managers via		

	email
Priority:	High
Frequency of Use:	Medium

UC-11. Produce statistic on sale

UC ID and Name:	UC-11 Produce statistic on sale		
Created By:	Hoan Thien Nguyen	Date Created:	09/10/2018
Actor:	Timer		
Description:	Each month, the system produces statistical data on sale for all stores. The data then will be sent to the managers via email		
Priority:	High		
Frequency of Use:	Medium		

UC-12. Create bill

UC ID and Name:	UC-12 Create bill		
Created By:	Duc Tho Tran	Date Created:	09/10/2018
Actor:	Salesman, Salesman supervisor		
Trigger:	User indicates that he wants to create bill.		
Description:	User wants to create bill.		
Preconditions:	PRE-1. Authorized user logged into system as Salesman or Salesman supervisor role. PRE-2. A list of products and number of each is ready		
Postconditions:	POST-1. The bill is stored into database		
Normal Flow:	<ol style="list-style-type: none"> 1. User clicks on the "Create bill" button. 2. User scans barcode of product 3. Product is filled by data from scanner, or typed by user 4. User types number of product 5. Repeat step 2-4 until all products are inputted 6. System calculates total money customer has to pay, include VAT and notifies for user. 		
Priority:	High		
Frequency of Use:	Medium		
Business Rules:	BR-1. All bills must be stored. BR-2. The amount the customer pays for each type product is: number of product * unit price * (1 + VAT rate).		

UC-13. Accept payment by cash

UC ID and Name:	UC-13 Accept payment by cash		
Created By:	Duc Tho Tran	Date Created:	09/10/2018
Actor:	Salesman, Salesman supervisor		
Trigger:	User indicates that customer wants to accept payment by cash.		
Description:	Customer wants to accept payment by cash.		
Preconditions:	PRE-1. Authorized user logged into system as Salesman or Salesman supervisor role.		
Postconditions:	POST-1. Payment has been accepted.		
Normal Flow:	<ol style="list-style-type: none"> 1. User chooses bill to accept payment. 2. User announces the total to customer. 3. User inputs amount of money received from user. 4. System calculates change. 5. User returns the change. 6. User prints bill. 		
Priority:	High		
Frequency of Use:	Medium		
Business Rules:	BR-1. When accepting payment by cash, staff must store number money in and out.		

UC-14. Accept payment by credit card

UC ID and Name:	UC-14 Accept payment by credit card		
Created By:	Duc Tho Tran	Date Created:	09/10/2018
Actor:	Salesman, Salesman supervisor		
Trigger:	Salesman indicates that customer wants to pay by credit card.		
Description:	Customer wants to accept payment by credit card.		
Preconditions:	PRE-1. Authorized user logged into system as Salesman or Salesman supervisor.		
Postconditions:	POST-1. Make payment successfully.		
Normal Flow:	<ol style="list-style-type: none"> 1. User chooses bill to accept payment. 2. User announces the total to customer. 3. User chooses credit card payment for customer. 4. Request is sent to the bank to see if the card is valid and the total is accepted. 5. System displays transaction's information. 		
Exceptions:	EX-1. The credit card is out of date. EX-2. The total is not accepted.		
Priority:	High		

Frequency of Use:	Medium
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UC-15 View bill

UC ID and Name:	UC-15 View bill		
Created By:	Duc Tho Tran	Date Created:	09/10/2018
Actor:	Salesman, Salesman supervisor, Administrator		
Trigger:	User indicates that he wants to view bill.		
Description:	Users want to check the bill for erroneous information.		
Preconditions:	PRE-1. Authorized user logged into system as Salesman, Salesman supervisor or Administrator role.		
Normal Flow:	<ol style="list-style-type: none"> 1. User chooses to view bill 2. User selects datetime interval of the bills he wants to review 3. User selects a bill he wants to review 4. User clicks on "View" button 5. System displays the bill's information 		
Priority:	High		
Frequency of Use:	Medium		
Business Rules:	BR-1. Salesman must review their bill at the end of shift.		

UC-16. Disable bill

UC ID and Name:	UC-16 Disable bill		
Created By:	Duc Tho Tran	Date Created:	09/10/2018
Actor:	Salesman supervisor		
Trigger:	User indicates that he wants to disable bill.		
Description:	User wants to disable the wrong information bill generated by the salesman.		
Preconditions:	PRE-1. Authorized user logged into system as Salesman supervisor role.		
Postconditions:	POST-1. The bill has been cancelled.		
Normal Flow:	<ol style="list-style-type: none"> 1. Salesman supervisor clicks on the button disable bill. 2. Salesman supervisor enters bill code. 3. System disables the bill and notifies on the screen. 		
Exceptions:	EX-1. Salesman supervisor inputs wrong bill code.		
Priority:	High		
Frequency of Use:	Low		
Business Rules:	BR-1. When the salesman enters the wrong value into the bill, it must be disabled.		

UC-17. Add item to product list

UC ID and Name:	UC-17 Add item to product list		
Created By:	Duc Tho Tran	Date Created:	09/10/2018
Actor:	Warehouse manager, Administrator		
Trigger:	User indicates that he wants to add item to product list.		
Description:	User wants to add products to the list of products available in the warehouse.		
Preconditions:	PRE-1. Authorized user logged into system as Warehouse manager or Administrator role.		
Postconditions:	POST-1. The item has been added.		
Normal Flow:	<ol style="list-style-type: none"> 1. User asks to add item to product list. 2. System displays interface to add item. 3. User inputs product id, name, quantity and product description. 4. User confirms his/her desire. 5. System notifies action success. 		
Exceptions:	EX-1. User inputs wrong format.		
Priority:	Medium		
Frequency of Use:	High		
Business Rules:	BR-1. When products are warehoused, items and quantities should be recorded by warehouse manager.		

UC-18. Remove item to product list

UC ID and Name:	UC-18 Remove item to product list		
Created By:	Duc Tho Tran	Date Created:	09/10/2018
Actor:	Warehouse manager, Administrator		
Trigger:	User indicates that he wants to remove product list.		
Description:	When exporting from the warehouse, the warehouse manager wants to record the information on the system.		
Preconditions:	PRE-1. Authorized user logged into system as Warehouse manager or Administrator role.		
Postconditions:	POST-1. The product list is updated		
Normal Flow:	<ol style="list-style-type: none"> 1. User asks to remove product from list. 2. System displays product list to remove. 3. User chooses which products to remove. 4. User inputs remove description. 5. User confirms his desire. 6. System notifies action success. 		
Priority:	Medium		

Frequency of Use:	Medium
Business Rules:	BR-1. When exporting products, information must be imported in the system.

UC-19. Check product list

UC ID and Name:	UC-19 Check product list		
Created By:	Duc Tho Tran	Date Created:	09/10/2018
Actor:	Warehouse manager, Administrator		
Trigger:	User indicates that he wants to review his product list.		
Description:	User wants to review his product list instantly.		
Preconditions:	PRE-1. Authorized user logged into system as Warehouse manager or Administrator role.		
Normal Flow:	<ol style="list-style-type: none"> 1. User asks to check product list. 2. The system displays all the products left in the warehouse. 		
Priority:	Medium		
Frequency of Use:	Medium		
Business Rules:	BR-1. Warehouse manager must check inventory at the end of the day.		

UC-20. View history of product list

UC ID and Name:	UC-20 View history of product list		
Created By:	Duc Tho Tran	Date Created:	09/10/2018
Actor:	Warehouse manager, Administrator		
Trigger:	User indicates that he wants to review history of product list.		
Description:	User wants to review history of product list instantly.		
Preconditions:	PRE-1. Authorized user logged into system as Warehouse manager or Administrator role.		
Normal Flow:	<ol style="list-style-type: none"> 1. User asks to review products' history. 2. The system requires user to choose a period of time to review product list's history. 3. System displays all import or export history of the repository in that period of time. 		
Priority:	Medium		
Frequency of Use:	Low		
Business Rules:	BR-1. Warehouse manager must review the history of product list twice times a week.		

UC-21. View revenue

UC ID and Name:	UC-21 View revenue		
Created By:	Hoan Thien Nguyen	Date Created:	09/10/2018
Actor:	Administrator		
Trigger:	Administrator indicates that he wants to view revenue		
Description:	Administrator would like to review the revenue immediately to assess the financial situation.		
Preconditions:	PRE-1. Authorized user logged into system as Administrator role.		
Normal Flow:	<ol style="list-style-type: none"> 1. Admin chooses to view revenue. 2. Admin chooses which store/whole system. 3. Admin chooses time interval. 4. Admin clicks "View" button. 5. System displays revenue. 		
Alternative Flows:	None		
Priority:	High		
Frequency of Use:	High		