



Theory Presentation Report

Semester: Fall 2023

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Batch:40

Section: D

Course Code: SE212 Course Name: Software Requirement & Specification

Visited area: gGalore

Course Teacher Name: Tapushe Rabaya Toma

Designation: Assistant professor

Submission Date: 18 /11/2023

The picture with the logo of gGalore Fashion House:



The picture with the salesperson of gGalore Fashion House:



The Brand Name: gGalore:



The scenario:

gGalore is a Clothing Brand with an online application for selling their products. The manager analyzes the sales data overview of inventory levels and everyone's performance metrics. Shopkeepers handle inventory status, pending orders, and notifications for low-stock items. Salesman shows real-time customer foot traffic, recent purchases, and personalized recommendations. Customers can check a history of past purchases, preferences, and access to exclusive promotions and Admin allows monitoring of the system, user management, and access to monitor the application's performance and ensure that all features are running smoothly for seamless operations. Overall, this application plays an important role in facilitating efficient operations, providing personalized experiences for customers, and enabling data-driven decision-making for the stakeholders in the clothing shop.

How did this system Impact in Business:

This application system provides numerous benefits to their business. This allows customers to interact with the business 24/7, regardless of their location. This application can track inventory levels, notify when items are low in stock, and facilitate the reordering process, preventing overstocking or shortages and also can be updated and adapted to incorporate new technologies, features, and trends, ensuring the business stays relevant in a rapidly changing market. It provides a platform for efficient communication, data management, and customer interaction, contributing to the success and sustainability of the business.

1. What kind of software do they use?

They use web applications for their software system.

2. What kind of facility does the software provide?

The facilities of this kind of software allow many users to access the same version of an application. Users can access the app through various platforms such as a desktop, laptop or mobile and also can access the app through multiple browsers

List of stakeholders:

Stakeholder 1: Shop Manager

Stakeholder 2: Admin

Stakeholder 3: Customer

Stakeholder 4: Salesperson

Stakeholder 5: Shopkeeper

User profile for Shop Manager:

User class	Note of characteristics	Requirements implied
Type of user	manager	Interface, performance, portability, security
Age range	25 – 60	Interface, quality, operational
Frequency of use	Many times in a week	Performance, reliability, resource, operational, quality
Mandatory	Yes	Documentation, quality, security, safety
Computer Experience	Yes	Documentation, acceptance, resource
Education	HSC	Documentation, interface
Goal	To get different facilities	Performance, resource, operational, acceptance, maintainability, safety, quality, security
Language skill	Bangla, English	Interface, documentation
Number of users	Many	Performance, acceptance, maintainability, reliability, operational, safety, quality
Training	Yes	documentation
Other system use	No	
Way of working	To get official support	Portability, safety, security, quality

User profile for Customer:

User class	Note of characteristics	Requirements implied
Type of user	customer	Interface, performance, portability, security
Age range	18 – 60	Interface, quality, operational
Frequency of use	Many time in a day	Performance, reliability, resource, operational, quality
Mandatory	Yes	Documentation, quality, security, safety
Computer Experience	Yes	Documentation, acceptance, resource
Education	HSC	Documentation, interface
Goal	To get different facilities	Performance, resource, operational, acceptance, maintainability, safety, quality, security
Language skill	Bangla, English	Interface, documentation
Number of users	Many	Performance, acceptance, maintainability, reliability, operational, safety, quality
Training	Yes	documentation
Other system use	No	
Way of working	To get official support	Portability, safety, security, quality

User profile for a salesperson:

User class	Note of characteristics	Requirements implied
Type of user	salesperson	Interface, performance, portability, security
Age range	18 – 40	Interface, quality, operational
Frequency of use	Many times, in a week	Performance, reliability, resource, operational, quality
Mandatory	Yes	Documentation, quality, security, safety
Computer Experience	Yes	Documentation, acceptance, resource
Education	HSC	Documentation, interface
Goal	To get different facilities	Performance, resource, operational, acceptance, maintainability, safety, quality, security
Language skill	Bangla, English	Interface, documentation
Number of users	Many	Performance, acceptance, maintainability, reliability, operational, safety, quality
Training	Yes	documentation
Other system use	No	
Way of working	To get official support	Portability, safety, security, quality

User profile for Shopkeeper:

User class	Note of characteristics	Requirements implied
Type of user	shopkeeper	Interface, performance, portability, security
Age range	20 – 60	Interface, quality, operational
Frequency of use	Many time in a day	Performance, reliability, resource, operational, quality
Mandatory	Yes	Documentation, quality, security, safety
Computer Experience	Yes	Documentation, acceptance, resource
Education	HSC	Documentation, interface
Goal	To get different facilities	Performance, resource, operational, acceptance, maintainability, safety, quality, security
Language skill	Bangla, English	Interface, documentation
Number of users	Many	Performance, acceptance, maintainability, reliability, operational, safety, quality
Training	Yes	documentation
Other system use	No	
Way of working	To get official support	Portability, safety, security, quality

User profile for Admin:

User class	Note of characteristics	Requirements implied
Type of user	Admin	Interface, performance, portability, security
Age range	20 – 60	Interface, quality, operational
Frequency of use	Many times, in a week	Performance, reliability, resource, operational, quality
Mandatory	Yes	Documentation, quality, security, safety
Computer Experience	Yes	Documentation, acceptance, resource
Education	HSC	Documentation, interface
Goal	To get different facilities	Performance, resource, operational, acceptance, maintainability, safety, quality, security
Language skill	Bangla, English	Interface, documentation
Number of users	Many	Performance, acceptance, maintainability, reliability, operational, safety, quality
Training	Yes	documentation
Other system use	No	
Way of working	To get official support	Portability, safety, security, quality

WHAT IS ELICITATION TECHNIQUE?

Elicitation techniques are a set of methods and approaches used to gather information, requirements, or feedback from individuals, stakeholders, or experts in order to better understand a specific topic, problem, or domain. These techniques are commonly employed in software development

WHICH ELICITATION TECHNIQUE WE IMPLEMENTED FOR COLLECTING REQUIREMENTS IN THIS CASE?

1. ONE ON ONE INTERVIEW
2. FOCUS GROUP
3. OBSERVATIONS
4. SURVEY

1. **ONE-ON-ONE INTERVIEW:** In this scenario, we implemented a one-on-one interview with the Admin and the Shop manager. Because he knows all the insights of that agency. By implementing this technique, we gathered all the basic important needs for their system
2. **FOCUS GROUP:** In this scenario, there are some different groups like teams of Shopkeepers and Salespersons. We used several focus group sessions with them to collect their requirements.
3. **OBSERVATIONS:** In this scenario, we also implemented observation to see their natural environment to understand their behavior, needs, or challenges.
4. **SURVEY:** In this scenario, we implemented a survey for customers. Where we can collect a lot of possible requirements which they need to the system.

SRS Documentation:

FR0001	Sign up
Description	Here users can complete their registration
Stakeholder	Customer,Shop manager, salesperson, admin, shopkeeper

FR0002	Sign in
Description	Here user can log in to the website
Stakeholder	Customer, Shop manager, salesperson, admin, shopkeeper

FR0003	Show Home page
Description	Here users can see all kinds of products and facilities.
Stakeholder	Customer, shopkeeper, salesperson, admin,

FR0004	List of new products
Description	user can see the new product list
Stakeholder	customers, shopkeepers, admin

FR0005	Show categories
Description	Here users can see available product Categories.
Stakeholder	Customers, Shopkeepers, Admin

FR0006	Show Men Product
Description	Here all users can show all kinds of men's product
Stakeholder	Customer, Shopkeeper, Admin

FR0007	Show Women Product
Description	Here users can show all kinds of women's product
Stakeholder	Customer, Shopkeeper, Admin

FR0008	Show kid's Product
Description	Here users can show all kinds of kid's product
Stakeholder	Customer, Shopkeeper, Admin

FR0009	Show household items
Description	Here users can see all kinds of decorations and showpiece items
Stakeholder	Customer, Shopkeeper, Admin

FR0010	Search products
Description	Customers can search for their desirable products here
Stakeholder	Customer, Shopkeeper

FR0011	Sort by
Description	Here user can see the specific product that they wants and narrow their requirement
Stakeholder	Customer, Shopkeeper

FR0012	View details
Description	Here, the user can see the details of the product
Stakeholder	Customer, Shopkeeper,Admin

FR0013	Show price
Description	Here, the user can see the product price
Stakeholder	Customer, Shopkeeper, Admin

FR0014	Zoom product image
Description	Here, the user can see the product close with 5X zoom
Stakeholder	Customer, Shopkeeper

FR0015	Select Favorite Item
Description	Here users can select their favorite item for purchases later.
Stakeholder	Customer, Admin

FR0016	Add to cart
Description	Here users can add things that they want to purchase
Stakeholder	Customer, admin

FR0017	Select quantity
Description	Here users can select how much they want to purchase
Stakeholder	Customer, Admin

FR0018	Place order
Description	Customers can place orders the products that they add to their cart
Stakeholder	Customer

FR0019	Give address
Description	Here the user gives their address
Stakeholder	Customer

FR0020	Confirm order
Description	Here the user can confirm the order
Stakeholder	Customer

FR0021	Apply vouchers
Description	Here users can apply vouchers to get special discount
Stakeholder	Customer, Salesperson

FR0022	Make Payment
Description	Here user can complete their payment
Stakeholder	Customer, admin

FR0023	Select Payment Method
Description	Here user can choose the payment method
Stakeholder	Customer, Salesperson, admin

FR0024	Issue Bill
Description	Here user gets a copy of the bill
Stakeholder	Salesperson, admin

FR0025	Get notifications
Description	Users get notifications for every purchase and also when restoring new product
Stakeholder	Customer, Admin

FR0026	Give review
Description	Customers can give their opinions about the products
Stakeholder	Customers, admin

FR0027	Return policy
Description	Customers can return defective products
Stakeholder	Customers, Salesperson ,Admin

FR0028	Issue membership card
Description	Customers can have a membership card for easy shopping
Stakeholder	Salesperson, Admin

FR0029	Use scanner
Description	Here users can make quick payment
Stakeholder	Salesperson, admin

FR0030	Update Profile
Description	Here user can update their profile
Stakeholder	Customer, Shopkeeper, Salesperson, Shop Manager Admin

FR0031	Forget password
Description	Here user can reset the password
Stakeholder	Customer, Shopkeeper, Salesperson,Shop Manager Admin

FR0032	Get OTP
Description	Here users get OTP to reset their password
Stakeholder	Customer, Shopkeeper, Salesperson,Shop Manager, Admin

FR0033	Resend OTP
Description	If a user misses OTP, then he/she can get a new OTP here.
Stakeholder	Customer, Shopkeeper, Salesperson,Shop Manager Admin

FR0034	update products details
Description	here user can update the product details
Stakeholder	Shop Manager, admin

FR0035	Add new product
Description	Here users can add new product
Stakeholder	ShopManager, admin

FR0036	List of Offer Products
Description	Users can view the products that are on sale
Stakeholder	Customer, Shopkeeper, Admin

FR0037	See sell report
Description	Here, the user can see the sells report
Stakeholder	Shop Manager, admin

FR0038	Review Stock
Description	Here user can review all the products which is available or not
Stakeholder	Shop Manager, Admin

FR0039	Sell Items cost-wise
Description	According to the amount of cost, the User can know what products have been sold.
Stakeholder	Shop Manager, Admin

FR0040	Know the percentage of sold item
Description	Find out the percentage of products sold among the items
Stakeholder	Shop Manager, Admin.

FR0041	Percentage of sold products by cash/card
Description	They can know about the percentage of products sold by cash or card.
Stakeholder	Shop Manager, Admin

FR0042	About us
Description	Here user can see the details about the Shop
Stakeholder	Customer, admin

FR0043	Contact us
Description	Here users see the email, phone number and hotline number of the shop
Stakeholder	Customer, admin,

FR0044	FAQ
Description	Here the customer can see frequently asked questions.
Stakeholder	Customer, admin

FR0045	View Blog
Description	Here users can get regular updates on new material
Stakeholder	Customer, Admin

FR0046	Update blog
Description	Here users can update their blog
Stakeholder	Manager, admin

FR0047	Share items
Description	Here user can share their favorite item with others
Stakeholder	Customer, admin

FR0048	Play game
Description	Here users can enjoy the game
Stakeholder	Customer

FR0049	Get voucher
Description	Here users can collect voucher
Stakeholder	Customer

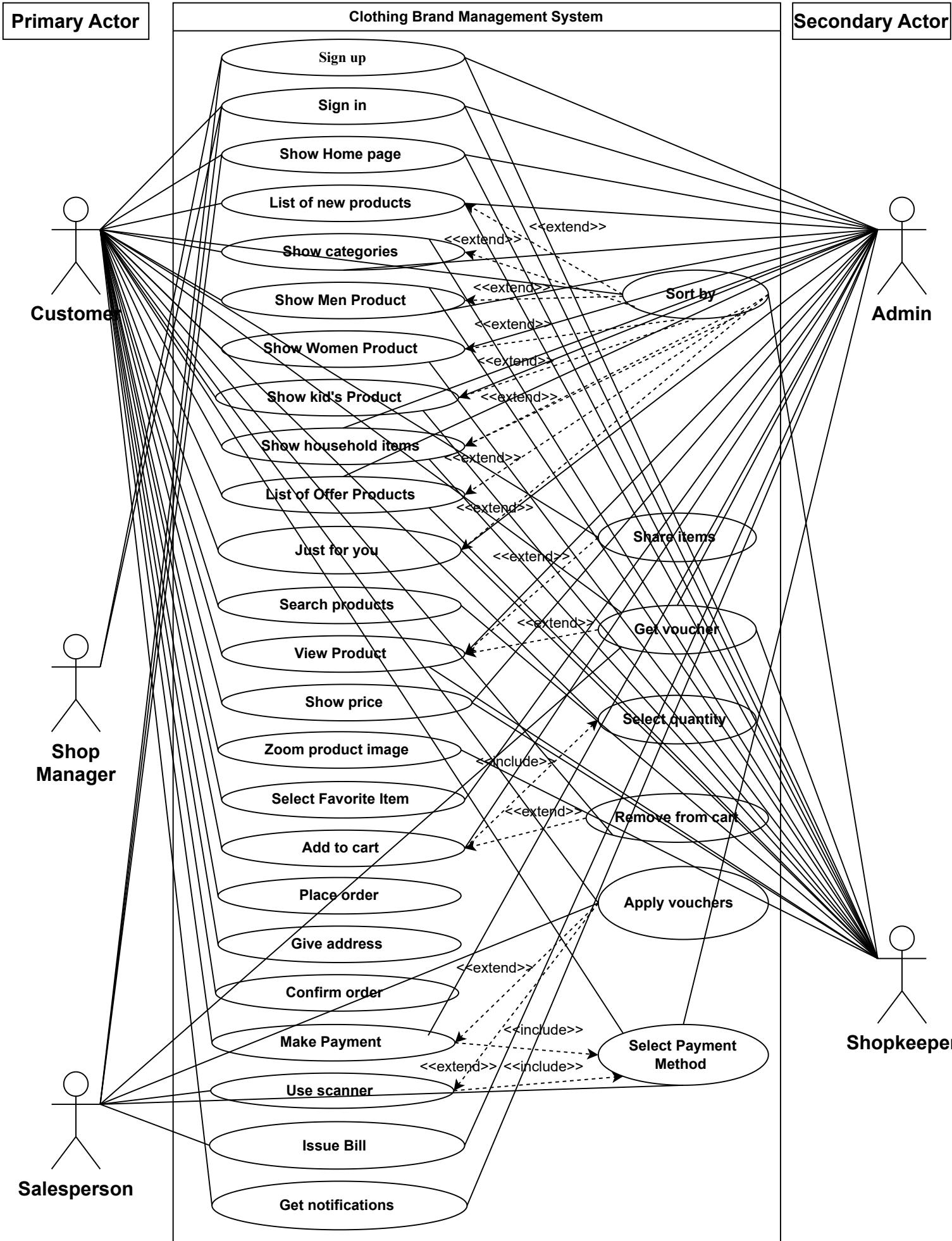
FR0050	Just for you
Description	Here user can see the product based on their activity
Stakeholder	Customer

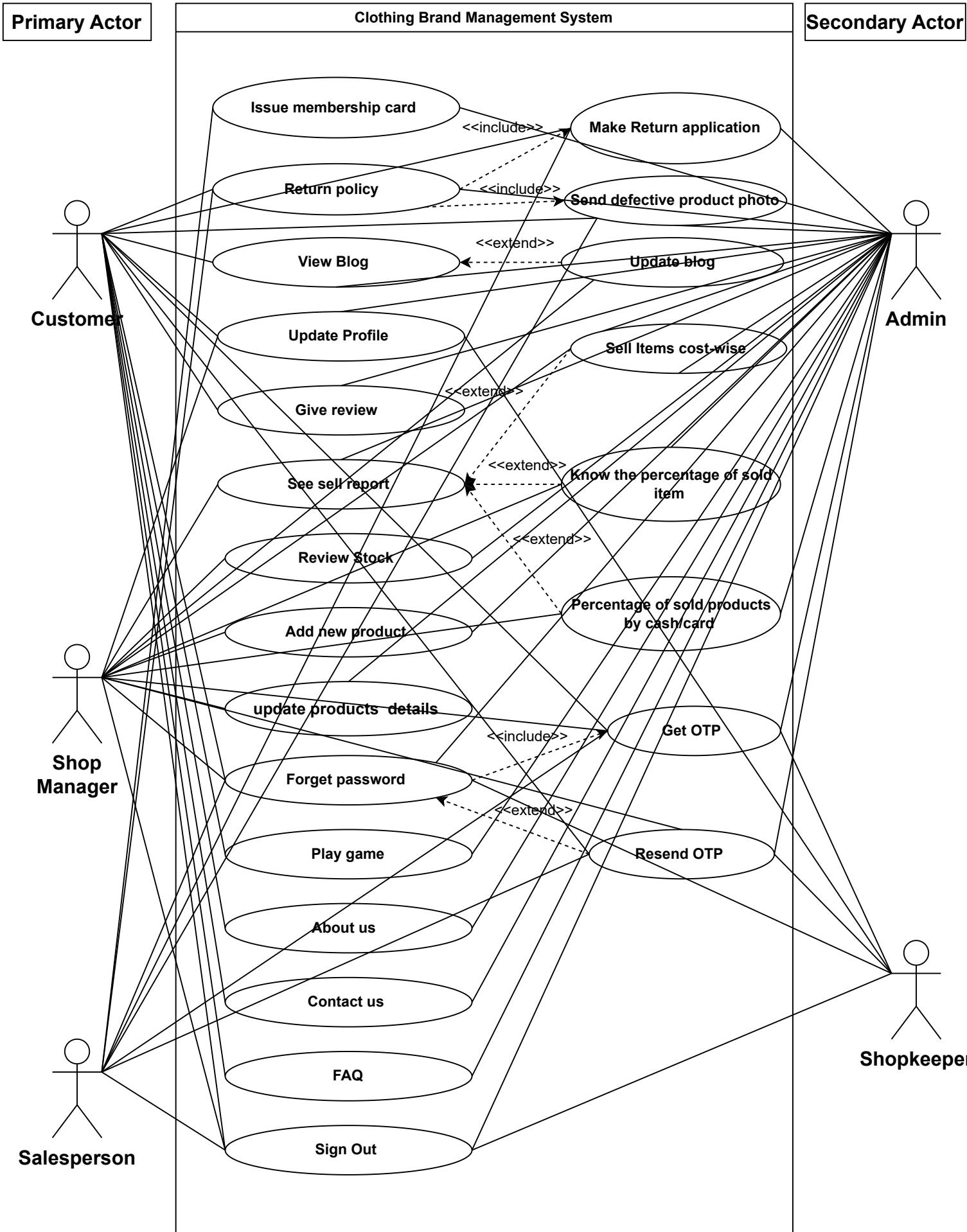
FR0051	Remove from cart
Description	Here users can remove the product from the cart that they selected before
Stakeholder	Customer, Admin

FR0052	Make Return application
Description	Here users can make applications to return the product
Stakeholder	Customer, salesperson

FR0053	Send defective product photo
Description	Here users can send defective product photos
Stakeholder	Customer, salesperson

FR0054	Sign Out
Description	Here user can leave the website
Stakeholder	Customer, Shopkeeper, Salesperson,Shop Manager, Admin





Case Description:

Use Case	Apply vouchers
Goal	To get the vouchers for the product.
Precondition	<ol style="list-style-type: none"> 1. The customer has to select the product for get vouchers. 2. The customer has to know if the selected product have any vouchers.
Success End Condition	<ol style="list-style-type: none"> 1. Customers can get the product's vouchers which they want to purchase. 2. System waits for the next step of the customer.
Failed End Condition	<ol style="list-style-type: none"> 1. If any voucher is not available for that moment : <ul style="list-style-type: none"> • It will display “Sorry! Not available at this moment”. 2. If there is any error in the system: <ul style="list-style-type: none"> • It will display “Try again later”.
Actors	Customer, salesperson, admin
Trigger	The customer chooses “Add to cart” option in the system.
Description / Main Success Scenario	<ol style="list-style-type: none"> 1. Customer select the product from the display list. 2. System displays if the product have any vouchers. 3. Customers click on the get vouchers button. 4. System validates the voucher code to check its validity. 5. The system calculates the discount amount based on the voucher type. 6. Then applied it to the total order value.

Alternative Flows	1.1	If there is no vouchers: (1a) Message: “Sorry! There is no vouchers for this product”
	2.1	If there is an error of the system: (2a) Message: “Try again later”.
	3.1	If it could not connect to the server: (3a) Message : “Server error”.
	The system should accurately validate vouchers and apply discounts to prevent errors and discrepancies in order totals.	
Quality Requirements	The system should accurately validate vouchers and apply discounts to prevent errors and discrepancies in order totals.	

Use Case	Show categories
Goal	To show different categories of products.
Precondition	<ol style="list-style-type: none"> 1. The user has to log in to the system. 2. The shopkeeper has to enter the different categories of products.
Success End Condition	<ol style="list-style-type: none"> 1. User can see a list of product categories available in the system. 2. The system waits for the next step of the user.
Failed End Condition	<ol style="list-style-type: none"> 1. If the shopkeeper didn't enter product categories: <ul style="list-style-type: none"> • It will display "Sorry! There is no product details." 2. If there is any error in the system: <ul style="list-style-type: none"> • It will display "Try again later."
Actors	Customers, admin, shopkeeper
Trigger	The user chooses the "Product categories" option in the system.
Description / Main Success Scenario	<ol style="list-style-type: none"> 1. The user clicks the "list of product categories" option in the system. 2. Then user clicks on "Select a category" to view products. 3. Then the category displays relevant details such as name, image, and a brief description. 4. The user is able to navigate back to the main menu.

Alternative Flows	<table border="1"> <tr> <td>1.1</td><td>If there are no details of product's categories: (1a) Message: "No product available at this moment".</td></tr> <tr> <td>2.1</td><td>If there is an error of the system: (2a) Message : "Try again later"</td></tr> <tr> <td>3.1</td><td>If it could not connect to the server: (3a) Message: "Server error".</td></tr> <tr> <td>4.1</td><td>If user password format did not match for login: (4a) Message: "Select proper password".</td></tr> </table>	1.1	If there are no details of product's categories: (1a) Message: "No product available at this moment".	2.1	If there is an error of the system: (2a) Message : "Try again later"	3.1	If it could not connect to the server: (3a) Message: "Server error".	4.1	If user password format did not match for login: (4a) Message: "Select proper password".
1.1	If there are no details of product's categories: (1a) Message: "No product available at this moment".								
2.1	If there is an error of the system: (2a) Message : "Try again later"								
3.1	If it could not connect to the server: (3a) Message: "Server error".								
4.1	If user password format did not match for login: (4a) Message: "Select proper password".								
Quality Requirements	A cost option can be added of products to find something easily.								

Use Case	Add to cart
Goal	To add products that they want to purchase.
Precondition	<p>The customer has to log into the system.</p> <p>The customer has to select the product.</p>
Success End Condition	<p>Customers select multiple products that they want to purchase.</p> <p>Customers can purchase multiple products at one time</p>
Failed End Condition	<p>If these products are not available in stock: Massage: “Sorry! Item is not available in stock”.</p> <p>If there is any error in the system: Massage:“Try again later”.</p>
Primary Actors	Customer
Secondary Actors	Admin
Trigger	The customer chooses the “Add Cart” option in the system.
Description / Main Success Scenario	<ol style="list-style-type: none"> 1. Customers select a product from the display list. 2. The system displays the “Add Cart” button. 3. Customers click on the “Add Cart” button. 4. The system validates the selected item’s availability. 5. If the item is in stock, it is added to the cart. 6. Customers continue shopping or proceed to check out.

Alternative Flows	<table border="1" data-bbox="518 255 1530 671"> <tr> <td data-bbox="528 255 616 382">2.1</td><td data-bbox="616 255 1530 382">If there is an error in the system: (2a) Message: “Try again later”.</td></tr> <tr> <td data-bbox="528 382 616 523">3.1</td><td data-bbox="616 382 1530 523">If it could not connect to the server: (3a) Message : “Server error”.</td></tr> <tr> <td data-bbox="528 523 616 671">44.1</td><td data-bbox="616 523 1530 671">If the selected item is out of stock: (4a) System display message: “Out of stock”. (4a1) Customers can return to the product list or choose another.</td></tr> </table>	2.1	If there is an error in the system: (2a) Message: “Try again later”.	3.1	If it could not connect to the server: (3a) Message : “Server error”.	44.1	If the selected item is out of stock: (4a) System display message: “Out of stock”. (4a1) Customers can return to the product list or choose another.
2.1	If there is an error in the system: (2a) Message: “Try again later”.						
3.1	If it could not connect to the server: (3a) Message : “Server error”.						
44.1	If the selected item is out of stock: (4a) System display message: “Out of stock”. (4a1) Customers can return to the product list or choose another.						
Quality Requirements	An option for the customer by which they can add products to the cart easily and quickly. A requirement that is used for fast time of product add to cart.						

Use Case	Confirm Order
Goal	Confirming an order to get the product.
Precondition	<ol style="list-style-type: none"> 1. Customer have to enter to the website or app. 2. Salesperson need to have a computer to get the confirmation.
Success End Condition	<ol style="list-style-type: none"> 1. Customer order is successfully placed and order confirmed. 2. Salesperson sells a product and get the money.
Failed End Condition	<ol style="list-style-type: none"> 1. Customers order didn't confirmed due to any error. 2. Salesperson enable to sell and confirm the order.
Actors	Customers
Trigger	To get confirmation of the product which customer buys.
Description / Main Success Scenario	<ol style="list-style-type: none"> 1. Customers open the website or app. 2. Customer places an order. 3. Customer gives his information. 4. An confirmation goes to the customer.

Alternative Flows	1.1	If there is an error of the system: (1a) Message : “Try again later”.
	2.1	If it could not connect to the server: (2a) Message : “Server error”.
	3.1	If there is any problem with the confirmation code: (3a) Message : “Code error”.
	Salesperson ensures the quality to the customer they give to confirm the order.	

Use Case	Make payment
Goal	To complete the payment for the chosen product.
Precondition	<p>The customer has to select the item for purchase.</p> <p>The customer's items have been scanned and totaled by the POS system.</p>
Success End Condition	<p>customer can pay money for the product.</p> <p>The system waits for the next step of the customer.</p>
Failed End Condition	<p>If the customer didn't select any payment method: Massage: "Sorry! Select Payment Getaway".</p> <p>If there is any error in the system: Message: "Try again later".</p>
Primary Actors	Customers
Secondary Actors	Admin
Trigger	The customer chooses the "Make payment" option in the system.
Description / Main Success Scenario	<ol style="list-style-type: none"> 1. The customer chooses the "Make payment" option in the system. 2. Securely process payments. 3. Confirmation page and email notifications are sent to customers upon successful payment. 4. Continue another shopping
Alternative Flows	

	<p>1.1 If there is any problem in the process of the customer's payment: (1a) Message: "Wrong code or transition number".</p>
	<p>2.1 If there is an error in the system: (2a) Message: "Try again later".</p>
	<p>3.1 If it could not connect to the server: (3a) Message: "Server error".</p>
Quality Requirements	The customer should confirm their payment within 120 seconds.

Software Prioritization:

Must	Should	Could	Would
Sign Up	List Of New Products	Issue Bill	Share Items
Sign In	Show Categories	Get Notification	Play Games
Show Home Page	Show Men Products	Zoom Product Image	
Search Products	Show Women Products	Return Policy	
See Sell Report	Show Kid's Products	Issue Membership Card	
Search Products	Show Household Items	Send Notification	
View Product	Sort By	Issue Membership Card	
Show Price	Select Favorite Items	Resend OTP	
Add To Cart	Apply Voucher	About Us	
Select Quantity	Review Stock	Contract Us	
Place Order	Remove From Cart	FAQ	
Give Address	Give Review	Just For You	
Confirm Order	View Blog	Update Blog	
Make Payment	Update Profile	Send Defective Product Photo	
Select Payment Method	Forget Password	See Sell Reports	
Use Scanner	Get OTP		
Update Product Datils	List Of Offer Products	Make Return Application	
Add New Product	Review Stock		
Sign Out	Sell Items Cost Wise		
	Know The Percentage Of Soled Item		
	Parentage Of Sold Product By Cash/Card		
	Get Voucher		

Requirement validation: