

Project Report

Semester: Fall 23

Name: Abdullah Al Mustakim

Student ID: 0242310005341093

Batch: 40th **Section:** B **Course Code:** SE-212

Course Name: Software requirement specification and analysis

Course Teacher Name: Tapushe Rabaya Toma

Designation: Assistant Professor

Submission Date: 31 / 07 / 2023

Software requirement specification and analysis for

Virgo Retail Ltd,8 Sonargaon Jana path road, Sector-9, Uttara, Dhaka.

<u>Index</u>

1.Scenario & Stakeholders	Page: 5
2.Feasibility Study	Page: 6
3.User Profiles	Page: 7 - 11
4. Elicitation Techniques	Page: 12
5.Functional Requirements	Page: 12 - 14
6.SRS Documentation	Page: 14 - 20
7.Case Description	Page: 21 - 28
8.Use Case	Page: 29
9.Priotization	Page: 30 - 32
10.Validation	Page: 33 - 34

Scenario

Virgo Retail Ltd. is a clothing shop with multiple locations, specializing in the retail of fashion apparel. They want to use a POS software named Uni POS, but they have identified several shortcomings in the existing software. They seek to develop a custom POS software solution that caters specifically to their needs and provides a more seamless and efficient retail experience. The specific features required for the POS system, such as management, customer service, sales analytics, customer relationship management and more.

The software system they use is UniPose.

Impact of the software in their business:

In today's dynamic business landscape, organizations face intricate challenges in effectively managing their operations. UniPose emerges as a beacon of innovation, offering an integrated solution that simplifies and optimizes business management processes. With its unwavering focus on enhancing productivity, improving decision making and streamlining operations. UniPose simplifies task assignment, progress tracking, and deadline management, facilitating efficient project execution.

Stakeholders:

- 1.Admin
- 2.Branch Manager
- 3.Cashier
- 4. Sales Associate
- 5.Customer

Feasibility Study

Feasibility Study reflect:

- Is this project really worth doing?
- Can we do this project?
- ➤ Will the organization accept this if we go ahead?

Based on that there is three types of feasibility Study, they are,

- √ Technical Feasibility
- ✓ Economic Feasibility
- ✓ Organizational Feasibility
- 1.Building a custom POS (Point of Sale) software solution for Virgo Retail Ltd. is a technically feasible project as student of software engineering.
- 2. While building custom POS software has its advantages, it's essential to weigh the challenges and consider alternative options. Ensure that Virgo Retail Ltd. is aware of the implications, and if you decide to proceed, collaborate with experienced professionals to increase the chances of success.
- 3. The decision to use the custom POS software will depend on how well it aligns with Virgo Retail Ltd.'s needs, budget, and overall business strategy. It's advisable to maintain clear communication with the company throughout the development process to ensure the software meets their expectations.
- So, the project is technically, economically and also organizationally feasible.
- So, it is feasible to develop a custom POS (Point of Sale) software solution for Virgo Retail Ltd. tailored to their specific needs and requirements. Developing a custom POS system allows businesses to have a solution that aligns precisely with their operations and provides a more seamless and efficient retail experience.

User profiles

1.User profile for Admin:

User Class	Note on Characteristics	Requirement Implied
Type of user	Admin	Performance, Interface, Operation, Security
Age Range	30-60	Interface
Frequency of Use	Many times, in a week	Performance, Acceptance, Portability, Resource, Maintainability, Reliability
Mandatory	Yes	-
Computer Experience	Must have computer experience	Documentation, Interface
Education	Diploma in CS/ B.sc in CS	Documentation, Interface
Goal	To get job support	Performance, Acceptance, Resource, Operation, Safety, Security, Quality
Language Skills	Bangla, English	Interface
Number of Users	One	Performance, Acceptance, Resource, Operation, Safety, Security, Quality
Training	Need to provide several training sessions	Interface, Documentation, portability
Others System Use	No	
Way of Working	To get job support	Performance, Acceptance, Resource, Operation, Safety, Security, Quality

2.Use Profile for Branch Manager:

User Class	Note on Characteristics	Requirement Implied
Type of user	Branch Manager	Performance, Interface, Operational, Portability
Age range	26-50	Interface, Verification, Acceptance
Frequency of use	Many times, in a day	Performance, Quality, Resource, Portability, Maintainability
Mandatory	Yes	Performance, Quality, Reliability, Maintainability
Computer experience	Yes	Interface, Quality
Education	Post graduate/Graduate	Interface, Acceptance, Reliability
Goal	Sell and customer service	Safety, Security, Maintainability, Quality
Language skills	Bangla and English	-
Number of users	20-40	Performance, Quality
Training	Needed	Documentation, Resource
Other system use	Yes	Performance, Interface, Operational, Acceptance, Portability, Reliability
Way of working	Sell and customer service	Safety, Security, Maintainability, Quality

3.User profile for Cashier:

User Class	Note on Characteristics	Requirement Implied
Type of user	Cashier	Performance, Interface, Operation, Portability
Age range	26-50	Interface, Verification Acceptance
Frequency of use	Many times, in a day	Performance, Quality Resource, Portability, Maintainability
Mandatory	Yes	Performance, Quality, Reliability, Maintainability
Computer Experience	Must have computer experience	Interface, Quality
Education	HSC / Diploma / Graduate	Interface, Acceptance, Reliability
Goal	To get job support	Safety, Security, Maintainability, Quality
Language Skills	Bangla, English	Interface
Number of users	20-30	Performance, Acceptance, Safety, Security, Quality
Training	Need to provide several training sessions	Interface, Documentation, Portability
Others system of use	one	Performance, Interface, Operational, Acceptance, Portability, Reliability
way of working	To get job support	Performance, Interface, Operation, Portability

4. User profile for sales associate:

User Class	Note on Characteristics	Requirement Implied
Type of user	Sales associate	Performance, Interface, Operational, Portability
Age range	20-30	Interface, verification
Frequency of use	Many times, in a day	Maintainability, Quality, performance
Mandatory	Yes	Performance, Quality Maintainability
Computer experience	Yes	Interface, Quality
Education	HSC	Interface, Acceptance, Reliability
Goal	Selling product to customer	Maintainability, Quality
Language skill	Bangla and English	-
Number of User	20-50	Performance, portability
Training	Needed	Resource
Other system use	No	-
Way of working	Selling products	Maintainability, Quality, performance

5.User profile for Customer:

User Class	Note on Characteristics	Requirement Implied
Type of user	Customer	Performance, Interface, Portability
Age range	Not eligible	Interface, Acceptance
Frequency of use	Once in a month	Quality, Resource, Portability, Maintainability
Mandatory	Yes	Performance, Quality, Reliability, Maintainability
Computer experience	Few of them may have computer experience	Interface, Quality
Education	Not eligible	Interface, Acceptance, Reliability
Goal	Get service	Safety, Security, Maintainability, Quality
Language skills	Bangla and English	+
Number of users	20-40	Performance, Quality
Training	No	
Other system use	Maybe	Interface, Acceptance, Portability, Reliability
Way of working	Gate service	Safety, Security Quality

Elicitation Techniques

1.One on one Interview	In conducting one-on-one interviews, engage key stakeholders, such as store managers, employees, and IT personnel, to discuss their experiences with Uni POS, focusing on specific pain points and desired functionalities.
2.Group Interview	Group interviews can be a valuable method for gathering information from multiple participants simultaneously. Like (Structured Discussions, Role- playing, Round - Robin, Nominal Group Technique (NGT).
3.Focus Group	The aim of the focus group is to understand 5-25 peoples (Same area like Branch Managers or cashiers' opinions, attitudes, perceptions, and experiences related to the topic of interest.
4.Document Analysis	Making software by analyzing documents of some old company like virgo.
5.Survey and Questionnaire	When people are up to 30 then we use this and clients answer in their own way and facilitate tailored feedback collection for Virgo Retail Ltd. 's custom POS software.

Functional requirements:

FR001: Sign in

FR002: Sign out

FR003: Registration

FR004: Forgot password

FR005: Update profile

FR006: Create employee profile

FR007: View employee profile

FR008: Update employee profile

FR009: Remove employee profile

FR010: Assign salesperson

FR011: Create product category

FR012: View product category

FR013: Update product category

FR014: Remove product category

FR015: Search product

FR016: View product list

FR017: Add product

FR018: View product

FR019: Update product

FR020: Remove product

FR021: View product details

FR022: Update product details

FR023: View product stoke

FR024: Update product stoke

FR025: Scan product with barcode

FR026: Add to cart

FR027: Confirm purchases

FR028: Make payment

FR029: Provide invoice

FR030: Send Mail / SMS

FR031: Save customer info.

FR032: Keep payment record

FR033: keep purchase record

FR034: Provide membership card

FR035: Return product by customer

FR036: Provide daily report

FR037: Provide monthly report

FR038: Provide yearly report

FR039: Stoke in

FR040: Stoke out

FR041: Stoke transfer

FR042: Return product to head office

FR043: Sold out report

FR044: Select language

SRS Documentation:

FR001	Sign in
Description	Sign-in refers to the information or instructions provided to users when they need to log in to a service.
Stakeholder	Branch Manager, Cashier, Sales Associate

FR002	Sign out
Description	Sign out refers to the information or instructions provided to users when they need to log out to a service.
Stakeholder	Branch manager, Cashier, Sales associate

FR003	Registration
Description	Registration is the process of creating a new account by providing personal information, such as name, email address and password in order to gain access to its features and services.
Stakeholder	Branch Manager, Cashier, Sales Associate

FR004	Forgot password
Description	Users are given a new temporary password or asked to enter a new password.

Stakeholder	Branch Manager, Cashier, Sales Associate
FR005	Update profile
Description	Users can add info in their profile.
Stakeholder	Branch Manager, Cashier, Sales Associate
FR006	Create employee profile
Description	Document used by companies to gather essential details about their employees.
Stakeholder	Branch manager, Admin
FR007	View employee profile
Description	An employee can check their own profile.
Stakeholder	Admin, Branch manager, Cashier, Sales Associate.
_	
FR008	Update employee profile
Description	An employee can update their own profile.
Stakeholder	Branch manager, Cashier, Sales Associate.
FR009	Remove employee profile
description	An employee left his position and this employee profile will be removed.
Stakeholder	Admin, Branch manager
FR010	Assign salesperson
Description	Assign salesperson when they need a salesman for selling their products.
Stakeholder	Branch Manager
FR011	Create product category

Description	Representing an entire category of items for sale.
Stakeholder	Admin, Branch Manager
FR012	View product category
Description	Allow stakeholders to view the list of product categories.
Stakeholder	Admin, Branch Manager, Sales Associate.
FR013	Update product category
Description	This feature is used to update category the product info
Stakeholder	Branch Manager, Sales Associate.
FD014	Domestic and district cotons with
FR014	Remove product category
Description	Allow stakeholders to delete unnecessary product categories.
Stakeholder	Admin, Branch Manager.
50045	
FR015	Search product
Description	Provide a search functionality to quickly find specific products.
Stakeholder	Admin, Branch Manager, Cashier, Sales Associate.
FR016	View product list
Description	Enable the stakeholders to view the complete list of available products.
Stakeholder	Admin, Branch Manager, Cashier, Sales Associate.
Г	
FR017	Add product
Description	Allow the addition of new products to the inventory.
Stakeholder	Branch Manager.
FR018	View product

Description	Provide a detailed view of a particular product.
Stakeholder	Admin, Branch Manager, Cashier, Sales Associate.
FR019	Update product
Description	Allow stakeholders to modify product information.
Stakeholder	Branch Manager.
FR020	Remove product
Description	Enable the removal of products from the inventory.
Stakeholder	Admin, Branch Manager.
	1
FR021	View product details
Description	Provide a comprehensive view of the product's details, including specifications and availability.
Stakeholder	Admin, Branch Manager, Cashier, Sales Associate.
FR024	Update product stock
Description	To add or remove the stock of products the feature is used.
Stakeholder	Branch manager
	T
FR025	Scan product with barcode
Description	Each product can be scanned with a barcode to add to the cart.
Stakeholder	Branch manager, Cashier, Sales Associate.
FR026	Add to cart
Description	The add-to-cart button is a feature of ecommerce stores that allows customers to choose items to purchase without actually completing the payment.
Stakeholder	Branch manager, Cashier, Sales Associate, Customer

FR027	Confirm purchase
Description	A purchase order issued as confirmation of an order previously placed with a vendor.
Stakeholder	Branch manager, Cashier, Sales associate, Customer
FR028	Make payment
Description	To confirm your purchase, customers should make payment feature.
Stakeholder	Branch manager, Cashier, Sales Associate, Customer
FR029	Provide invoice
Description	An itemized commercial document that records the products or services delivered to the customer, the total amount due, and the preferred payment method.
Stakeholder	Branch manager, Cashier, Sales Associate, Customer
FR030	Send email/ SMS
Description	The act of transmitting an email message from one computer to another over the internet or another network.
Stakeholder	Customer
FD024	
FR031	Save customer information
Description	It is used so that no one can see customer information
Stakeholder	Admin, Branch manager, Sales Associate.
FR032	Keep payment record
Description	Keeping a record of money deposited by the customer after receiving the goods
Stakeholder	Admin, Branch manager

FR033	Keep purchase record
Description	Documentation maintained by the buyer that records the quantity of goods moved from the consignment warehouse
Stakeholder	Admin, Branch manager
	·
FR034	Provide membership card
Description	Admitting members into events and to give them access to other member benefits.
Stakeholder	Branch manager, Customer
	_
FR035	Return product by customer
Description	Defective product can be returned
Stakeholder	Sales Associate, Customer
FR036P	Provide daily report
Description	A document that lists the activities that happened during a specific day.
Stakeholder	Admin, Branch manager
FR037	Provide monthly report
Description	A summary of your business activities during a specific month
Stakeholder	Admin, Branch manager
FR038	Provide yearly report
Description	A summary of your business activities during a specific year

Stakeholder	Admin, Branch manager
FR039	Stock in
Description	All or the quantity of products that a company has stored
Stakeholder	Branch manager
FR040	Stock out
Description	A store has sold all of its stock of a specific item
Stakeholder	Branch manager, Cashier, Sales Associate
FR041	Stock transfer
Description	Transfer stock to another branch.
Stakeholder	Branch manager
FR042	Return product to head office
Description	Misunderstood the product and it turned out to be different than expected. Then the product can be returned
Stakeholder	Branch manager
FR043	Sold out report
Description	Having all available products sold completely and especially in advance
Stakeholder	Admin, Branch manager, Cashier, Sales Associate.
FR044	Select language
Description	A user interface (UI) component that allows users to choose their preferred language
Stakeholder	Admin, Branch manager, Cashier, Sales Associate.

Case Description

Use Case	Provide Invoice		
Goal	The goal of this use case is to provide a customer with a copy of their invoice for a completed purchase.		
Precondition	System has recorded the customer's order, and the purchase has been successfully processed		
Success End Condition	Message: The Customer receives a copy of their invoice		
Failed End Condition	Message: Customer is unable to copy their invoice due to system errors, missing data, or other issues.		
Primary Actors:	Customer		
Secondary Actors:	Invoice System		
Trigger	The trigger for this use case is the customer's request for an invoice, or contacting customer support to copy their invoice.		
Description/Main Success Scenario	 The customer logs into their account on the platform. System verifies the customer's identity System retrieves the invoice data, including charges, taxes, payment information, and any additional details The customer receives the invoice sent by mail, based on their preference. The system saves all information 		

Alternative Flows	1.1	Could not connect to platform
		1.1.a. Message: "Page not found"
	2.1	Customer Identity Verification Failure
		2.1.a. Message: System fails to verify the customer's identity.
	3.1	Missing Invoice Data
		3.1.a. Message: Customer provides the missing data.
	4.1	Invalid Email
		4.1.a Message: "Provide valid mail"
	5.1	If the system could not find customer information
		5.1.a. Message: "Please provide a valid information"
Quality Requirements	Syste	m will provide an invoice within 5 minutes.

Use Case	Daily report
Goal	A daily report is generated and a manager is notified of the report presence
Precondition	The daily sales data is stored
Success End Condition	Message: "Report got successfully."
Condition	Manager will get update daily report
Failed End Condition	Massage: "Try again."
Primary Actors:	Manager
Secondary Actors:	Timer
Trigger	Manager will saw the report

Description/Main Success Scenario 1. Timer signals to the system to the prepare a daily report at midnight 2. The system reads the daily sales data and generate a daily report 3. The system prints a daily report and then store it 4. The system notifies the manager of the reports presence by sending a message to the manager cell phone 1.1 Could not connect to server 1.1.a. massage: "Page not found " 1.1.b User will go to the previous page 2.1 The system doesn't present the list of daily report 2.1.a. Massage: "Something went wrong." 3.1 The system does not print a daily report 3.1.a Massage: "Page not found." 4.1 Failed to send message 4.1. a. message: "Something went wrong" 4.1.b. Resend massage Quality Requirements Manager must complete this case within 30 minutes.					
2. The system reads the daily sales data and generate a daily report 3. The system prints a daily report and then store it 4. The system notifies the manager of the reports presence by sending a message to the manager cell phone 1.1 Could not connect to server 1.1.a. massage: "Page not found " 1.1.b User will go to the previous page 2.1 The system doesn't present the list of daily report 2.1.a. Massage: "Something went wrong." 3.1 The system does not print a daily report 3.1.a Massage: "Page not found." 4.1 Failed to send message 4.1. a. message: "Something went wrong" 4.1.b. Resend massage	-	1	Timer signals to the system to the prepare a daily report at midnight		
3. The system prints a daily report and then store it 4. The system notifies the manager of the reports presence by sending a message to the manager cell phone 1.1 Could not connect to server 1.1.a. massage: "Page not found " 1.1.b User will go to the previous page 2.1 The system doesn't present the list of daily report 2.1.a. Massage: "Something went wrong." 3.1 The system does not print a daily report 3.1.a Massage: "Page not found." 4.1 Failed to send message 4.1. a. message: "Something went wrong" 4.1.b. Resend massage Quality Manager must complete this case within 30 minutes.	Success Scenario	1.	Timer signals to the system to the prepare a daily report at initingit		
Alternative Flows 1.1 Could not connect to server 1.1.a. massage: "Page not found" 1.1.b User will go to the previous page 2.1 The system doesn't present the list of daily report 2.1.a. Massage: "Something went wrong." 3.1 The system does not print a daily report 3.1.a Massage: "Page not found." 4.1 Failed to send message 4.1.a. message: "Something went wrong" 4.1.b. Resend massage 4.1.b. Resend massage		2.	2. The system reads the daily sales data and generate a daily report		
Alternative Flows 1.1 Could not connect to server 1.1.a. massage: "Page not found " 1.1.b User will go to the previous page 2.1 The system doesn't present the list of daily report 2.1.a. Massage: "Something went wrong." 3.1 The system does not print a daily report 3.1.a Massage: "Page not found." 4.1 Failed to send message 4.1. a. message: "Something went wrong" 4.1.b. Resend massage Quality Manager must complete this case within 30 minutes.		3.	The system prints a daily report and then store it		
Alternative Flows 1.1 Could not connect to server 1.1.a. massage: "Page not found " 1.1.b User will go to the previous page 2.1 The system doesn't present the list of daily report 2.1.a. Massage: "Something went wrong." 3.1 The system does not print a daily report 3.1.a Massage: "Page not found." 4.1 Failed to send message 4.1. a. message: "Something went wrong" 4.1.b. Resend massage Quality Manager must complete this case within 30 minutes.					
Alternative Flows 1.1 Could not connect to server 1.1.a. massage: "Page not found " 1.1.b User will go to the previous page 2.1 The system doesn't present the list of daily report 2.1.a. Massage: "Something went wrong." 3.1 The system does not print a daily report 3.1.a Massage: "Page not found." 4.1 Failed to send message 4.1. a. message: "Something went wrong" 4.1.b. Resend massage Quality Manager must complete this case within 30 minutes.		4.			
1.1 Could not connect to server 1.1.a. massage: "Page not found " 1.1.b User will go to the previous page 2.1 The system doesn't present the list of daily report 2.1.a. Massage: "Something went wrong." 3.1 The system does not print a daily report 3.1.a Massage: "Page not found." 4.1 Failed to send message 4.1. a. message: "Something went wrong" 4.1.b. Resend massage			message to the manager cell phone		
1.1 Could not connect to server 1.1.a. massage: "Page not found " 1.1.b User will go to the previous page 2.1 The system doesn't present the list of daily report 2.1.a. Massage: "Something went wrong." 3.1 The system does not print a daily report 3.1.a Massage: "Page not found." 4.1 Failed to send message 4.1. a. message: "Something went wrong" 4.1.b. Resend massage					
1.1 Could not connect to server 1.1.a. massage: "Page not found " 1.1.b User will go to the previous page 2.1 The system doesn't present the list of daily report 2.1.a. Massage: "Something went wrong." 3.1 The system does not print a daily report 3.1.a Massage: "Page not found." 4.1 Failed to send message 4.1. a. message: "Something went wrong" 4.1.b. Resend massage					
1.1 Could not connect to server 1.1.a. massage: "Page not found " 1.1.b User will go to the previous page 2.1 The system doesn't present the list of daily report 2.1.a. Massage: "Something went wrong." 3.1 The system does not print a daily report 3.1.a Massage: "Page not found." 4.1 Failed to send message 4.1. a. message: "Something went wrong" 4.1.b. Resend massage					
1.1 Could not connect to server 1.1.a. massage: "Page not found " 1.1.b User will go to the previous page 2.1 The system doesn't present the list of daily report 2.1.a. Massage: "Something went wrong." 3.1 The system does not print a daily report 3.1.a Massage: "Page not found." 4.1 Failed to send message 4.1. a. message: "Something went wrong" 4.1.b. Resend massage					
1.1 Could not connect to server 1.1.a. massage: "Page not found " 1.1.b User will go to the previous page 2.1 The system doesn't present the list of daily report 2.1.a. Massage: "Something went wrong." 3.1 The system does not print a daily report 3.1.a Massage: "Page not found." 4.1 Failed to send message 4.1. a. message: "Something went wrong" 4.1.b. Resend massage	Alternative Flows				
1.1.a. massage: "Page not found " 1.1.b User will go to the previous page 2.1 The system doesn't present the list of daily report 2.1.a. Massage: "Something went wrong." 3.1 The system does not print a daily report 3.1.a Massage: "Page not found." 4.1 Failed to send message 4.1. a. message: "Something went wrong" 4.1.b. Resend massage		1.1	Could not connect to server		
1.1.b User will go to the previous page 2.1 The system doesn't present the list of daily report 2.1.a. Massage: "Something went wrong." 3.1 The system does not print a daily report 3.1.a Massage: "Page not found." 4.1 Failed to send message 4.1. a. message: "Something went wrong" 4.1.b. Resend massage Quality Manager must complete this case within 30 minutes.					
2.1 The system doesn't present the list of daily report 2.1.a. Massage: "Something went wrong." 3.1 The system does not print a daily report 3.1.a Massage: "Page not found." 4.1 Failed to send message 4.1. a. message: "Something went wrong" 4.1.b. Resend massage Quality Manager must complete this case within 30 minutes.			1.1.a. massage: "Page not found "		
2.1 The system doesn't present the list of daily report 2.1.a. Massage: "Something went wrong." 3.1 The system does not print a daily report 3.1.a Massage: "Page not found." 4.1 Failed to send message 4.1. a. message: "Something went wrong" 4.1.b. Resend massage					
2.1.a. Massage: "Something went wrong." 3.1 The system does not print a daily report 3.1.a Massage: "Page not found." 4.1 Failed to send message 4.1. a. message: "Something went wrong" 4.1.b. Resend massage Quality Manager must complete this case within 30 minutes.			1.1.b User will go to the previous page		
3.1 The system does not print a daily report 3.1.a Massage: "Page not found." 4.1 Failed to send message 4.1. a. message: "Something went wrong" 4.1.b. Resend massage Quality Manager must complete this case within 30 minutes.		2.1	The system doesn't present the list of daily report		
3.1.a Massage: "Page not found." 4.1 Failed to send message 4.1. a. message: "Something went wrong" 4.1.b. Resend massage Quality Manager must complete this case within 30 minutes.			2.1.a. Massage: "Something went wrong."		
4.1 Failed to send message 4.1. a. message: "Something went wrong" 4.1.b. Resend massage Quality Manager must complete this case within 30 minutes.		3.1	The system does not print a daily report		
4.1 Failed to send message 4.1. a. message: "Something went wrong" 4.1.b. Resend massage Quality Manager must complete this case within 30 minutes.					
4.1. a. message: "Something went wrong" 4.1.b. Resend massage Quality Manager must complete this case within 30 minutes.			3.1.a Massage: "Page not found."		
4.1. a. message: "Something went wrong" 4.1.b. Resend massage Quality Manager must complete this case within 30 minutes.					
4.1. a. message: "Something went wrong" 4.1.b. Resend massage Quality Manager must complete this case within 30 minutes.					
4.1.b. Resend massage Quality Manager must complete this case within 30 minutes.		4.1	Failed to send message		
4.1.b. Resend massage Quality Manager must complete this case within 30 minutes.					
Quality Manager must complete this case within 30 minutes.			4.1. a. message: "Something went wrong"		
Quality Manager must complete this case within 30 minutes.			4.1 b. December massage		
,			4.1.D. Resend massage		
,					
,	Quality	Manager must complete this case within 30 minutes.			
· ·	Requirements				

Use Case	Select Payment Method

Goal	This case allows the selection of various payment options, such as Bkash, Nogod, Rocket, credit/debit cards, bank transfers for the payment process.		
Precondition	The customer must have some outstanding balance to pay.		
Success End Condition	Massage: "Payment method has been successfully chosen."		
	System will give an interface to provide their payment information.		
Failed End Condition	Massage: "Your chosen payment method is invalid or unavailable for now."		
	User will go back to the payment method selecting page.		
Primary Actors:	Branch Manager, Cashier.		
Secondary Actors:	Customer		
Trigger	User will request to select a payment method.		
Description/Main Success Scenario	User will request to select a payment method.		
	The system presents a list of available payment methods, such as Cash, Bkash, Nogod, Rocket, credit/debit cards, bank transfers or any other accepted methods.		
	Users will request to connect with one of the available payment methods.		
	4. Massage: "Payment method has been successfully chosen." System will give an interface to provide their payment information.		

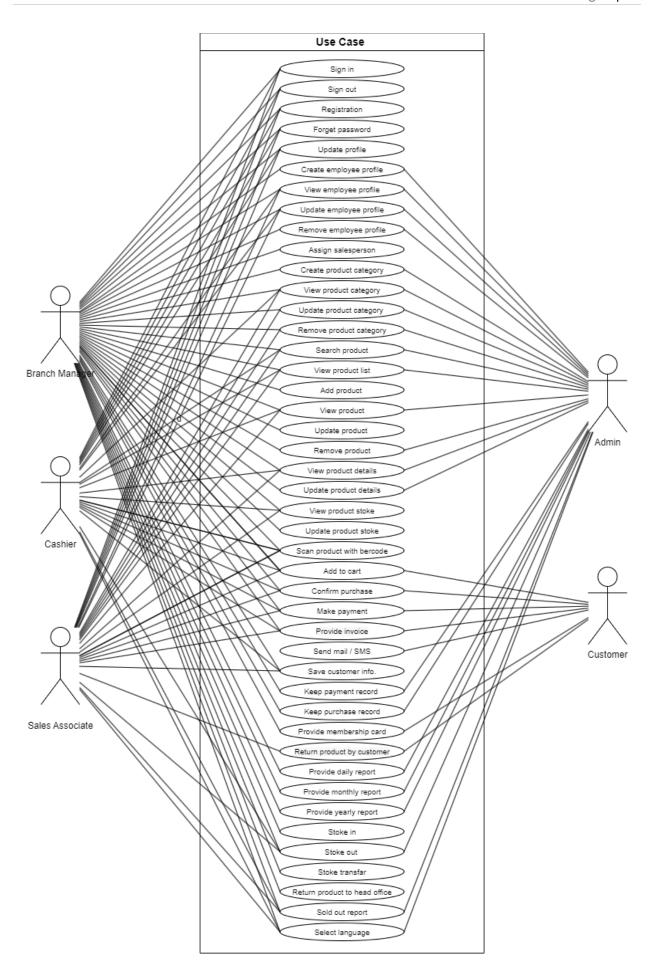
Alternative Flows	1.1	Could not connect to the server.
		1.1.a Massage: "Page not found."
	ı	1.1.b User will go to the previous page
	2.1	The system doesn't present the list of available payment methods
		2.1.a Massage: "Something went wrong."
	3.1	Could not connect to the server.
		3.1.a Massage: "Page not found."
	4.1	Failed to connect with the selected payment method
		4.1.a Massage: "Your chosen payment method is invalid or unavailable for now."
		4.1.b User will go back to the payment method selecting page.
Quality Requirements	Users must complete this case within 30 minutes.	

Use Case	Update product stoke
Goal	The "Update Product List" option in an app typically serves the purpose of allowing administrators to modify, add, or remove products from a list within the application
Precondition	Employee must be verified using their mail.
Success End Condition	Message: "Registration successful "

Failed End Condition	Message: "Registration failed"											
Primary Actors: Secondary Actors:	Admin, Branch manager											
Trigger	Employee will request to update product stoke											
Description/Main Success Scenario	Employee will request to update product stoke											
	System will provide registration form											
	3. Employee will with press submit button											
	4. System save all information and send											
	massage: "Registration successful ".											
Alternative Flows	1.1 Could not connect to server 1.1.a. Message:" Page not found "											
	2.1 System will not provide form 2.1.a. "something went wrong"											
	3.1 If user id not found											
	3.1.a. Message: "Rewrite use id".											
	4.1 If empty fields found											
	4.1.a. Massage: "Provide all required information ".											
Quality Requirements	Employee must be complete their update product stock within (20-30) min											

Use Case	Provide Membership Card											
Goal	The goal of membership card in a clothing shop is to enable customers to providing them with exclusive benefits and privileges.											
Precondition	The customer must have to purchase at least product of 15000 taka.											
Success End Condition	Manager will get the membership card and provide it to the customer.											
Failed End Condition	The member is not eligible to get membership card.											
Primary Actors:	Branch Manager											
Secondary Actors:	Customer											
Trigger	Customer makes a purchase.											
Description/Main Success Scenario	 The manager accesses the membership management system Manager will view the purchase history of the customer. Manger will view that the customer is eligible for the card or not. Manager will get the membership card and provide it to the customer. 											

Alternative Flows		
Alternative Flows	1.1	Could not connect to the server.
		1.1. a message "server not found"
		Information is invalid.
	2.1	
		2.1. a message "Give the correct information"
	3.1	Customer is not eligible to get membership card.
		3.1. a message "The member is not eligible to get membership card."
Quality Requirements	Users	s must complete this case within 30 minutes.



Requirement Priotization (100 Dollar Test)

SL	Requirements	Values
1	Sign in	\$2
2	Sign out	\$2
3	Registration	\$1
4	Forgot Password	\$1
5	Update Profile	\$1
6	Create Employee Profile	\$1
7	View Employee Profile	\$1
8	Update Employee Profile	\$1
9	Remove Employee Profile	\$1
10	Assign Salesperson	\$2
11	Create Product Category	\$5
12	View Product Category	\$3
13	Update Product Category	\$3
14	Remove Product Category	\$2
15	Search Product	\$2
16	View Product List	\$3
17	Add Product	\$4
18	View Product	\$2
19	Update Product	\$3
20	Remove Product	\$2

21	View Product Details	\$3
22	Update Product Details	\$2

23	View Product Stoke	\$3
24	Update Product Stoke	\$2
25	Scan Product with Barcode	\$2
26	Add to Cart	\$3
27	Confirm Purchases	\$2
28	Make Payment	\$4
29	Provide Invoice	\$2
30	Send mail/SMS	\$2
31	Save Customer info	\$2
32	Keep Payment Record	\$3
33	Keep Purchase Record	\$2
34	Provide Membership card	\$2
35	Return Product by Customer	\$2
36	Provide Daily Report	\$3
37	Provide Monthly Report	\$2
38	Provide Yearly Report	\$2
39	Stoke in	\$4
40	Stoke out	\$3
41	Stoke Transfer	\$2
42	Return Product to Head office	\$2
43	Sold Out Report	\$3
44	Select Language	\$1
	Total	\$100

Based on the above table we decide the range of value as like,

- ➤ Highest Priority (4-5)
- ➤ Mid Priority (2-3)
- Lowest Priority (1)

So, we can list the requirements below.

Highest Priority Requirements:

{Create Product Category, Add Product, Make Payment, Stoke in}

Mid Priority Requirements:

{Sign in, Assign Salesperson, View Product Category, Update Product Category, Remove Product Category, Search Product, View Product List, View Product, Update Product, Remove Product, View Product Details, Update Product Details, View Product Stoke, Update Product Stoke, Scan Product With Barcode, Add to Cart, Confirm Purchases, Provide Invoice, Send Mail/SMS, Save Customer info, Keep payment Record, Keep Purchase Record, Sign out, Provide Membership Card, Return Product by Customer, Provide Daily Report, Provide monthly Report, Provide Yearly Report, Stoke out, Stoke Transfer, Return Product to Head office, Sold Out Report}

Lowest Priority Requirements:

{Select Language, Registration, Forget Password, Update Profile, Create Employee Profile, View Employee Profile, Update Employee Profile, Remove Employee Profile}

Validation (Traceability matrix)

															d)							
	Sign in	Sign out	Registration	Forgot Password	Update Profile	Create Employee	View Employee	Update Employee	Assign	Create Product	View Product	Update Product	Remove Product	Search Product	Remove Employee	View Product List	Add Product	View Product	Update Product	Remove Product	View Product	Update Product
Sign in	√																					
Sign out		√																				
Registration		Ť	√																			
Forgot			_	√																		
Password																						
Update					✓																	
Profile																						
Create Employee						✓																
Profile																						
View							√															
Employee Profile							•															
Update								✓														
Employee																						
Profile Assign									,													
Salesperson									✓													
Create										√												
Product										•												
Category																						
View											✓											
Product																						
Category Update																						
Product												✓										
Category																						
Remove													√									
Product													•									
Category																						
Search														✓								
Product																						
Remove															✓							
Employee Profile																						
View																✓						
Product List																٧						
Add Product																	√					
View																		√				
Product																						
Update																			✓			
Product																				_		
Remove																				✓		
Product View																					,	
Product																					✓	
Details																						
Update																						√
Product																						
Details																						

		l	l	1	l	l	l	l			l		1	l	l		1	l				
	View Product Stoke	Update Product Stoke	Scan Product with Barcode	Add to Cart	Confirm Purchases	Make Payment	Provide Invoice	Send mail/SMS	Save Customer info	Keep Payment Record	Keep Purchase Record	Provide Membership card	Return Product by Customer	Provide Daily Report	Provide Monthly Report	Provide Yearly Report	Stock in	Stock out	Stock Transfer	Return Product to Headoffice	Sold Out Report	Select Language
View Product Stoke	✓																					
Update Product Stoke		✓																				
Scan Product with Barcode			✓																			
Add to Cart				✓																		
Confirm Purchases					✓																	
Make Payment						√																
Provide Invoice							√															
Send mail/SMS								√														
Save Customer info									✓													
Keep Payment Record										✓												
Keep Purchase Record											✓											
Provide Membership card												✓										
Return Product by Customer													√									
Provide														√								
Daily Report Provide Monthly Report															√							
Provide Yearly Report																✓						
Stock in																	✓					
Stock out																		✓				
Stock Transfer																			✓			

Return										✓		
Product to										•		
Headoffice												
Sold Out											/	
Report											•	
Select												1
Language												•