SRS

Software Requierment Specicfication

Mobile Sales Rep.

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Document Release History

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Authors, Reviewers, Stakeholders

ID	Name	Role	Contact	Email
1		Board Chairman		
2		CEO		
3		Board member		
4		Board member		
5		Sales Manager		
6		Financial Manager		
7		Business Consultant		
8		Project Manager		
9		Business Analyst		
10		System Analyst		
11		Database Admin		
12		Software Developer		
13		UX Designer		
14		Software Tester		

Abbreviation	Description	Role's Responsibility
*	Authorize	Has ultimate signing authority for any changes to the document
R	Responsible	Responsible for creating this document
A	Accountable	Accountable for the accuracy of this document
S	Supports	Provides supporting services in the production of this document
C	Consulted	Provides input
I	Informed	Must be informed of any changes

ID	Role	*	R	A	S	C	I
1	Board Chairman	✓					✓
2	CEO	✓					✓
3	Board member				✓	✓	
4	Board member				✓	✓	
5	Sales Manager					✓	
6	Financial Manager					✓	
7	Business Consultant			✓		✓	
8	Project Manager			✓			✓
9	Business Analyst		✓				✓
10	System Analyst		✓				✓
11	Database Admin				✓		✓
12	Software Developer				✓		✓
13	UX Designer				✓		✓
14	Software Tester				✓		✓

Budgeting and Scheduling

#	Work Package	Analysis			Design			Testing		
		Doing	Done	Duration	Doing	Done	Duration	Doing	Done	Duration
1	Login		✓					✓		
2	Reset Password		✓					✓		
3	Home Page		✓					✓		
4	Sales Invoice		✓					✓		
5	Invoices List		✓					✓		
6	Cash Voucher		✓					✓		
7	Vouchers List		✓					✓		
	Total Hours			Total Hours			Total Hours			

Acronyms, Abbreviations and Definitions

Term	Description
Sales Rep.	End-user who create a sales invoice to sell goods to customers
Debt Collector	End-user who create a cash voucher to collect a debit balance from customers
Customer Balance	The remaining amount value (negative or positive) in the customer's financial account
Sales Invoice	Receipt created by a sales rep to sell goods to customers
Credit	Sell goods with customer trust and collect the balance amount in the future
Debt	Previous invoice value that has not been collected and should be collected now from the customer (positive value)
Cash Voucher	Receipt created by a debt collector to collect cash from customers

1. Introduction

- **Background**

Despite having a web application enterprise resource plan solution that automates work. Especially backend transactions, the company aims to launch its own modernized digital mobile application that integrates with the "ERP" system. The company's goal is to have an excellent client's fully-fledged service with optimal operation time.

- **Purpose**

The purpose of this document is to build a comprehensive view and understanding of the requirements of our team for the new perspective solution: "Mobile Sales rep." it illustrates the requirements of the system. It will also explain system constraints, interface, and integration with the core ERP web application.

- **Intended Audience**

The document addresses all business stakeholders of **"XXXXXXXXXXX Integrated solutions"** board members as well as our business consultants, development, and testing team.

- **Product Scope**

"XXXXXXXXX Integrated solutions" Sales rep mobile application helps our customers to supply their available goods via a digital platform. Users can access the platform anytime, anywhere, and receive an excellent service experience.

The application scope will serve all the eligible users for the mobile application sales rep to follow up with their customers, achieve their targets, and cover their areas faster than at any time.

The main scope is to cover all sell procedures including cash and credit invoices, account receivables, check customer's balance, and several search features.

The business requirement will be represented in the following deliverables:
1- Mobile application for sales reps
2- Integration with the core ERP web application

NOTE: This is a live document; it will keep growing during the project's lifetime.
For more details, related to the scope, please refer to reference section (Backlog document).

- **Out of Scope**

    Other-party developed APIs:
    ❖ SMS Provider
    ❖ Mail Service Provider

- **Cross Reference**

This section will keep growing to tackle all user stories and requirements for all project iterations documentation which you can find below

    ❖ Traceability Matrix
    ❖ High Level business requirement
    ❖ Analysis document

2. Overall Description

- **Product Perspective**

The new channel is designed to provide outstanding customer satisfaction and an excellent user experience and move our success partners to the digital area by integrating the "sales rep. mobile application" with the core "ERP web application".
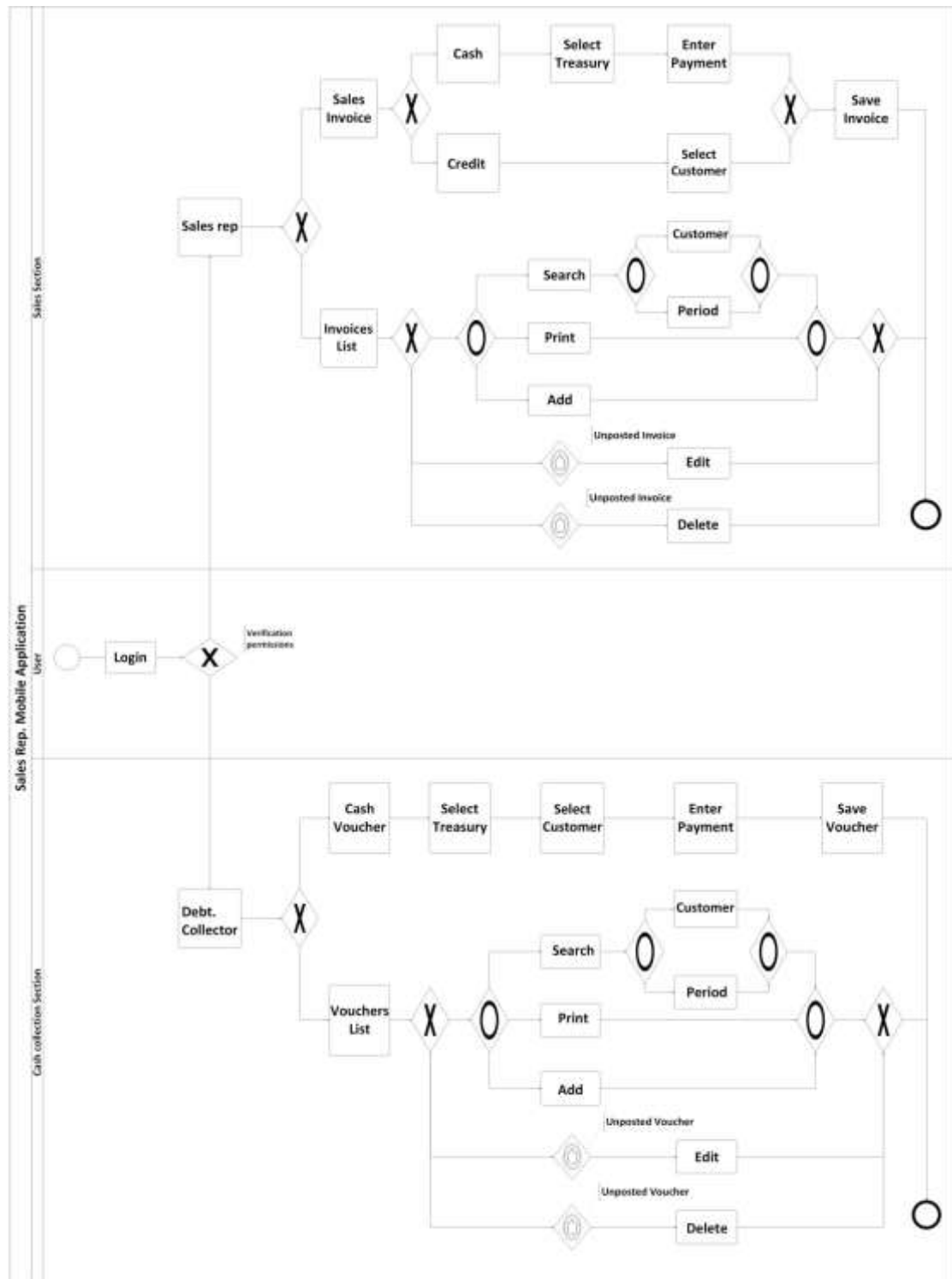
- **Product Functions**

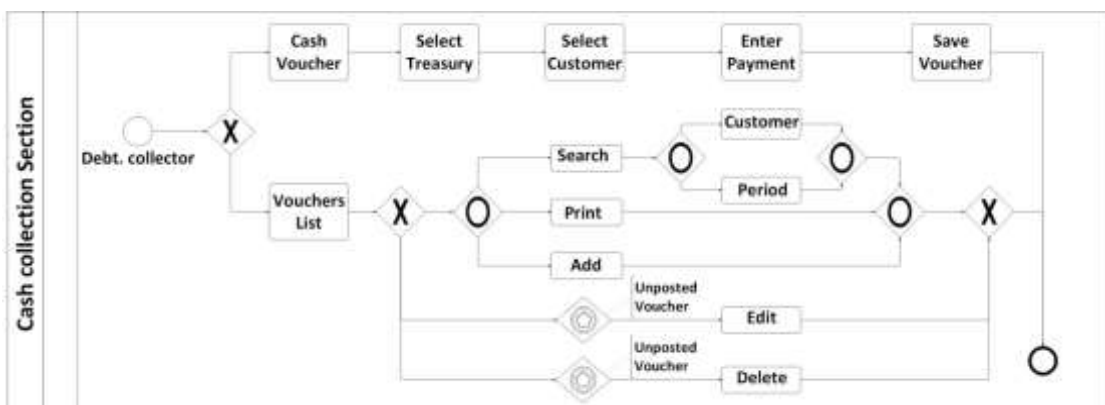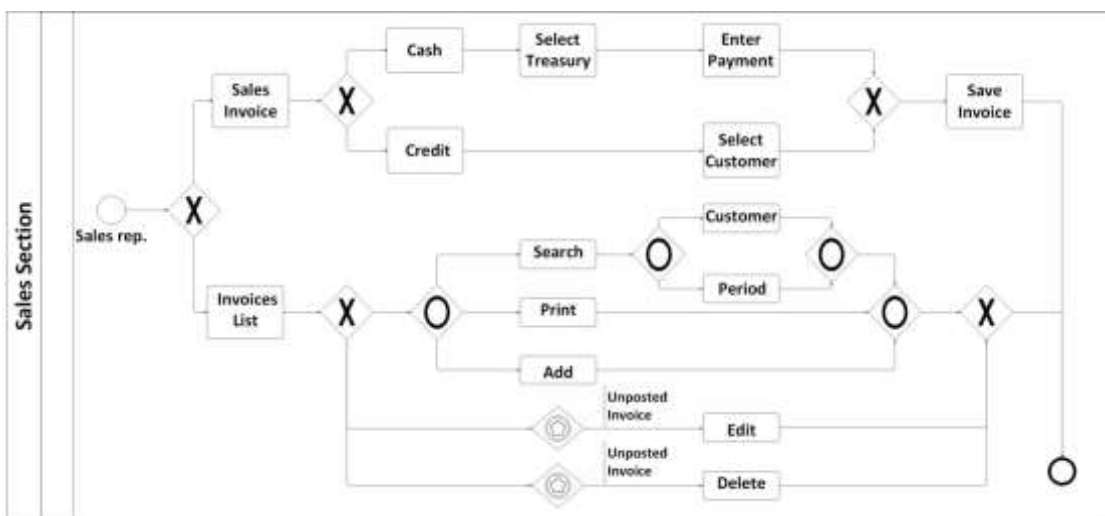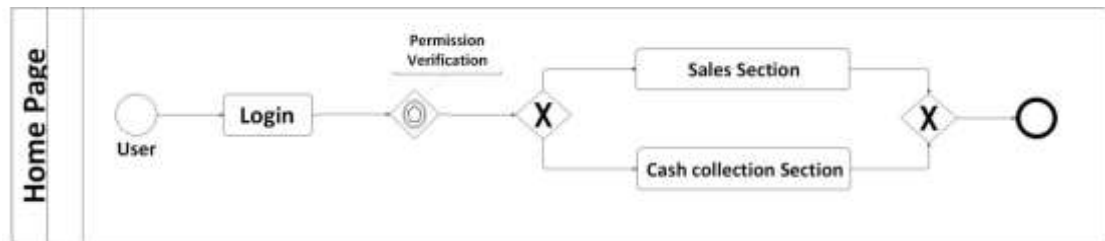The major functions of Sales rep. mobile application are represented in

- ❖ Data Flow Diagram (DFD):
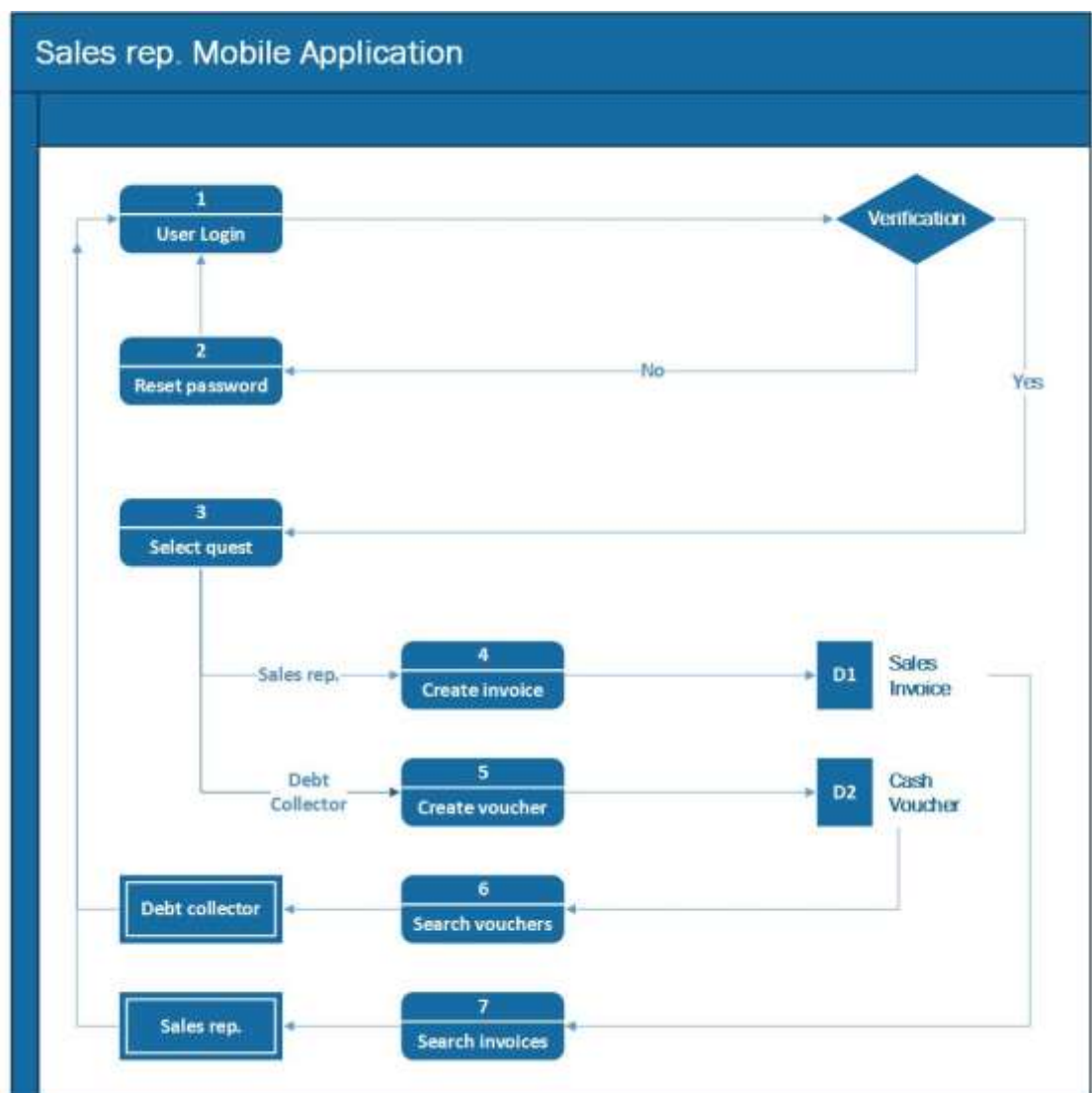
❖ Business Process Modeling Notation (BPMN)

❖ Business Process Modeling Notation (BPMN) zoom in

- **User Classes and Characteristics**

User	Class	Description
Sales rep	App User	End user who has permission to access the sales section using sales rep. mobile app
Debt collector	App User	End user who has permission to access the cash collection section using sales rep. mobile app

- **Design and Implementation Constraints**

All the mobile application themes must match the core "ERP" design

- **User Documentations**

  - ❖ Software requirement specifications
  - ❖ Backlog / User story

- **Assumptions and Dependencies**

  - ❖ User process from login to save invoice or voucher take 3 minutes.
  - ❖ Synchronizing the journey of 1000 users takes maximum 5 minutes from logging in to submit the request.

3. External Interface Requirements

- **User Interfaces**

All the mobile app design colors will be consistent with the "ERP" colors which are color X and Y

- **Communications Interfaces**

Application communication methods:

  - ❖ Notifications
  - ❖ E-mails
  - ❖ SMS

4. System Features

- **FR01: Download Mobile Application**

  4.1.1. Description:
  Mobile application should be free download.
  User should be able to download the mobile application from:
  - ❖ App store for IOS
  - ❖ Play store for android

- **FR02: Update and notify users of new release**

  4.2.1. Description:
  Mobile application should be free updated.
  User should be get notifications to update new versions.

- **FR03: Login**

  4.3.1. Description:
  For logging into the application the user must enter the username and password which were created before in the core "ERP" web application by the administrator. Then the end user should be to access his account.

  4.3.2. Goal:
  User can login into mobile application to use its Functionalities.

  4.3.3. Rules:

ID	Rule	Type
1	In case of entering a valid username and password, the user will access his account	System
2	In case of entering an invalid username and password, the following message will appear "Please enter correct username or password"	System
3	In case of leaving username and/or password empty, one of the following messages will display "Please enter username", "Please enter password", "Please enter username and password"	System

4.3.5. Use case:
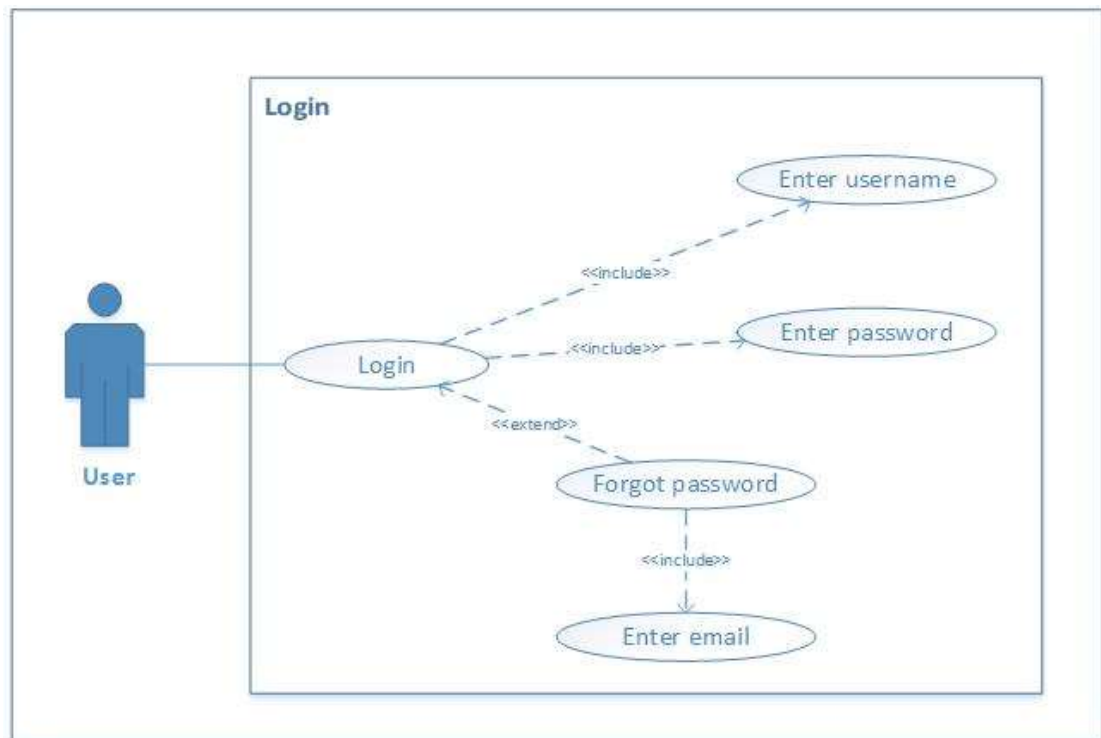
4.3.5. Wireframe:

4.3.6. Field Specifications:

Field Name	Mandatory	Specifications
Company Logo	N	Attachment
Username Text box	Y	String Field
Password Text box	Y	String Field
Login button		Button that allows user to get into app
Save Login Check box		To save user account details to login directly in the next time
Forgot password Link		This link to navigate user to the forgot password screen

4.3.7. Collaboration Diagram:
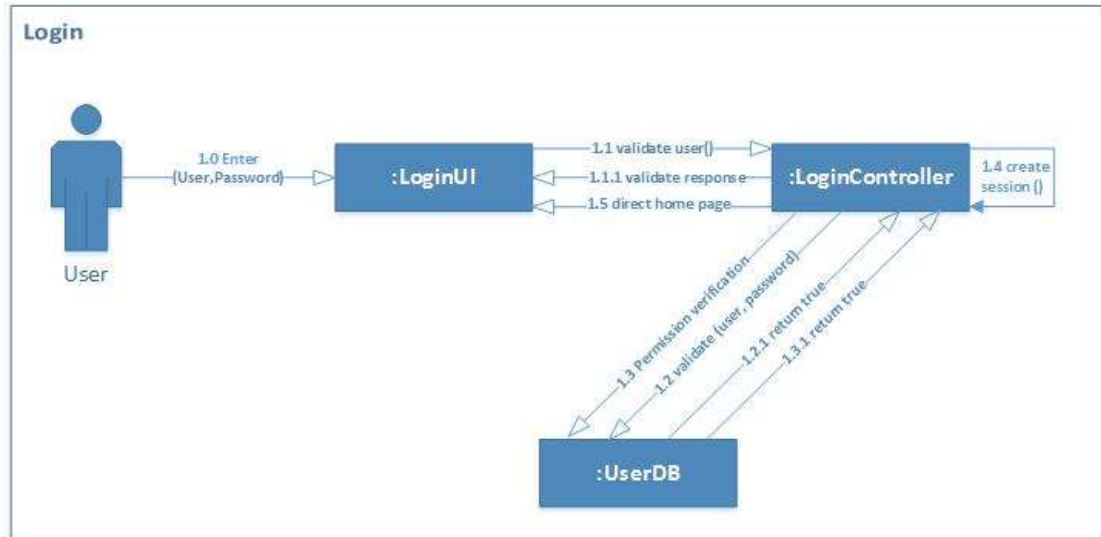
4.3.8. Activity Diagram:
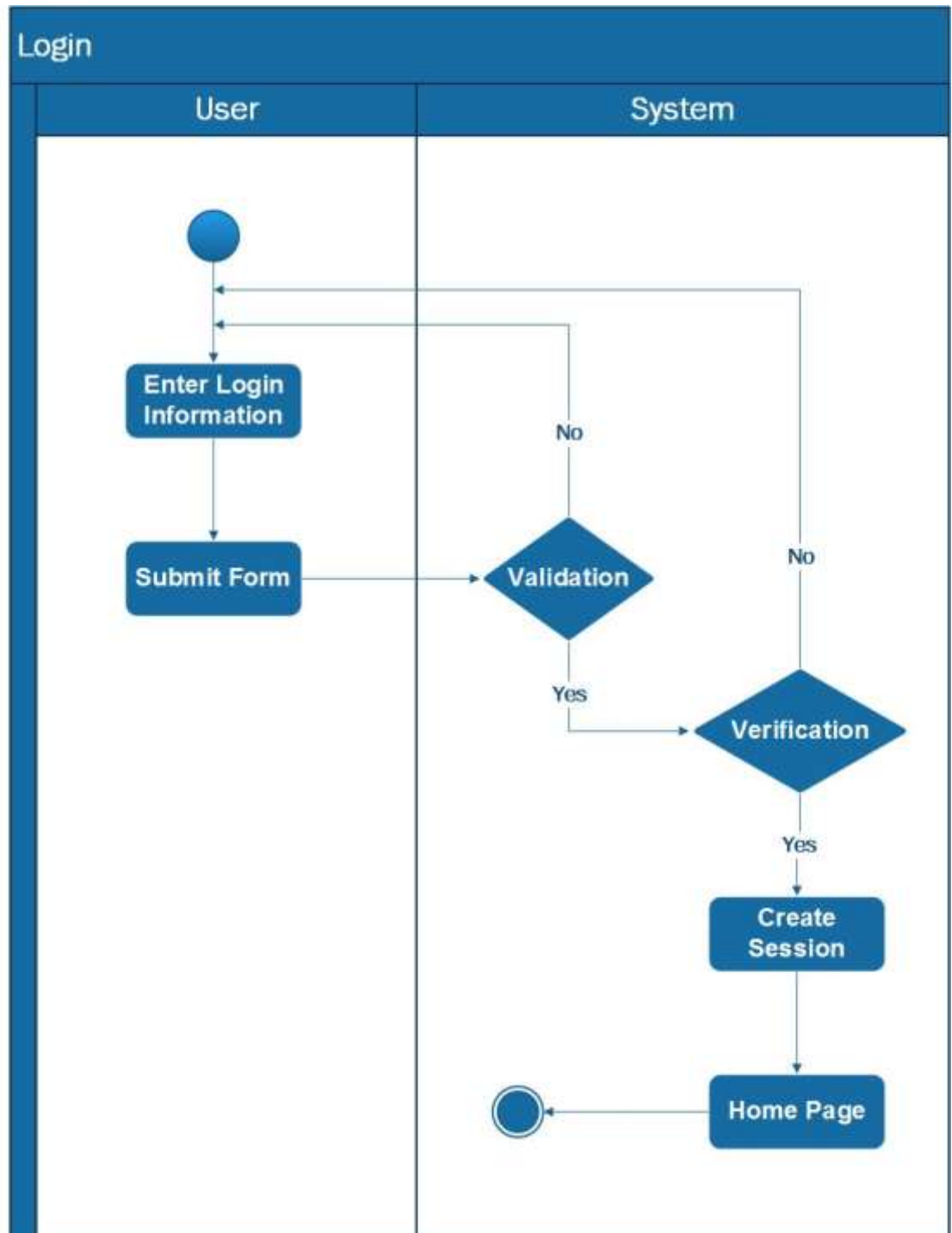
- **FR04: Reset Password**

4.4.1. Description:
The user should be able to retrieve his password by e-mail address or phone number in case he forgot it.
Users can enter their e-mail address or phone number and a One Time Passcode "OTP" from 4 digits will be sent to his phone number or e-mail address.

4.4.2. Goal:
To be able to reset a user's password in case of forgetting it.

4.4.3. Rules:

ID	Rule	Type
1	In case the phone number or e-mail address isn't registered, the system will give us a message "Please enter either correct e-mail address or phone number"	System
2	In case the phone number or e-mail address isn't correct, the system will give us a message "Please enter a valid e-mail address or phone number"	System
3	In case the phone number or e-mail address is correct, the system navigates to the confirmation code entry then reset the password	System

4.4.5. Use case:
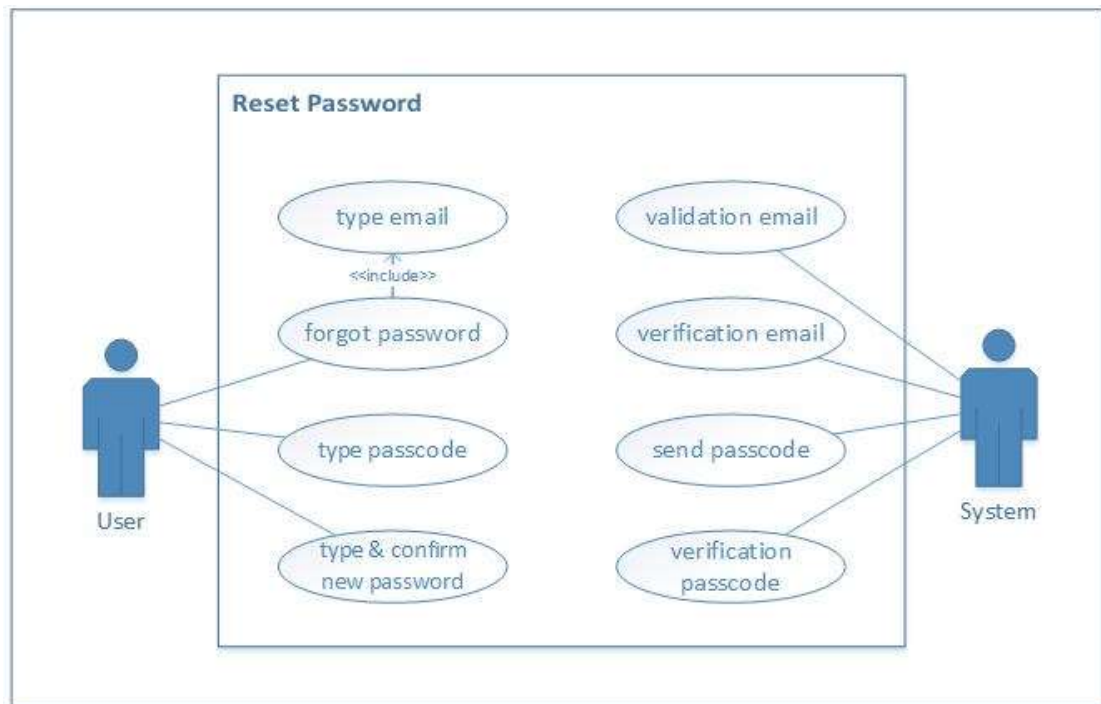
4.4.5. Wireframe:

4.4.6. Field Specifications:

Field Name	Mandatory	Specifications
E-mail / Phone Text box	Y	String
Reset button		Button that confirms e-mail / phone
Enter code Text box	Y	Numeric
Send again Link		This link to generate and send a new passcode again
New Password Text box	Y	String
Confirm Password Text box	Y	String
Reset button		Button that confirms new password

4.4.7. Collaboration Diagram:
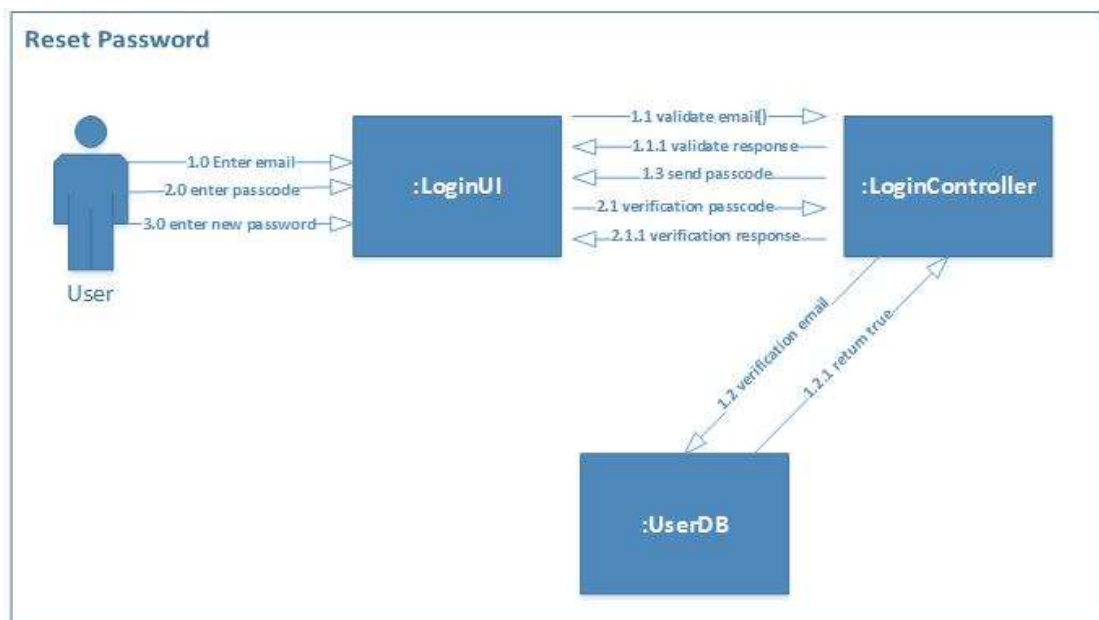
4.4.8. Activity Diagram:
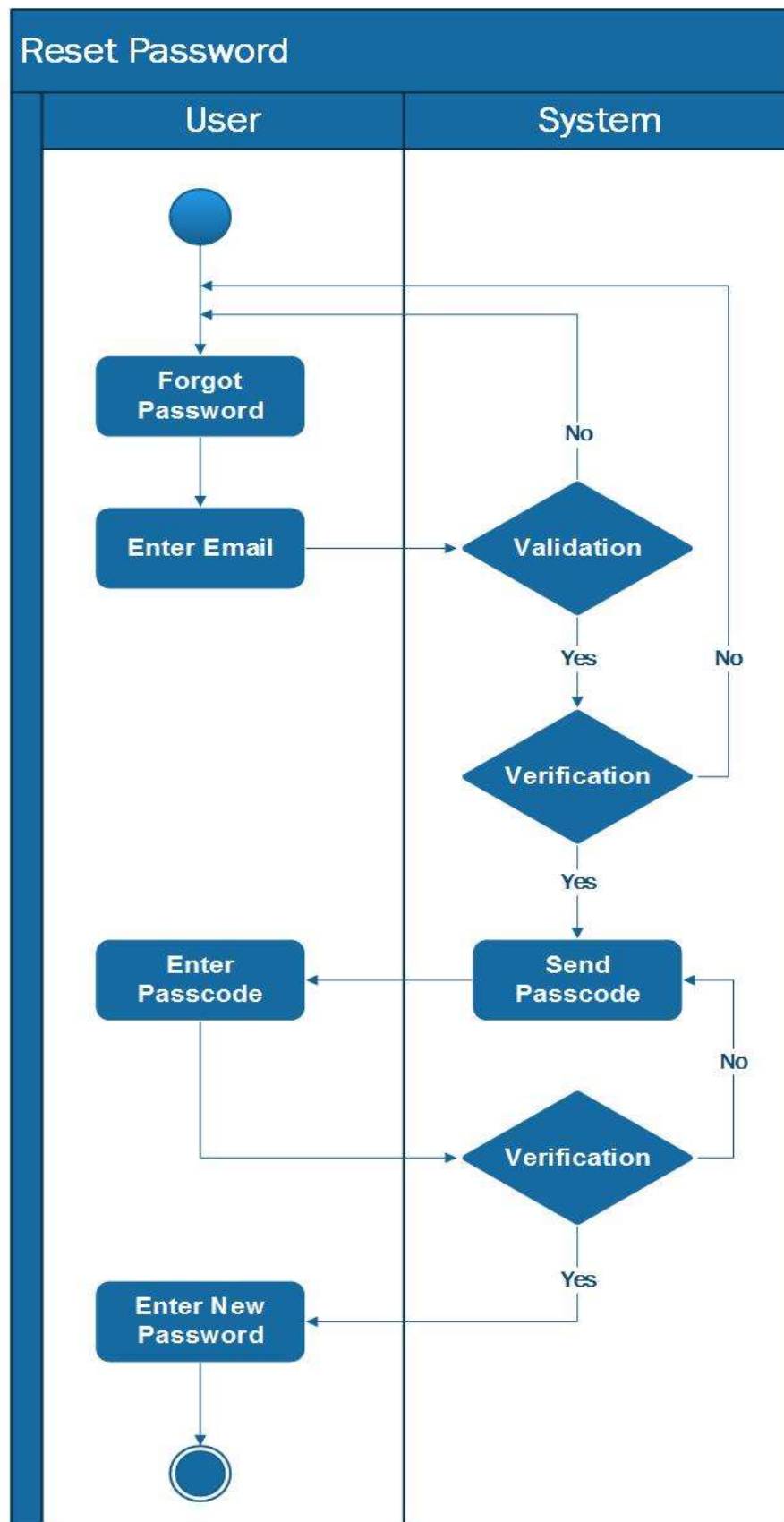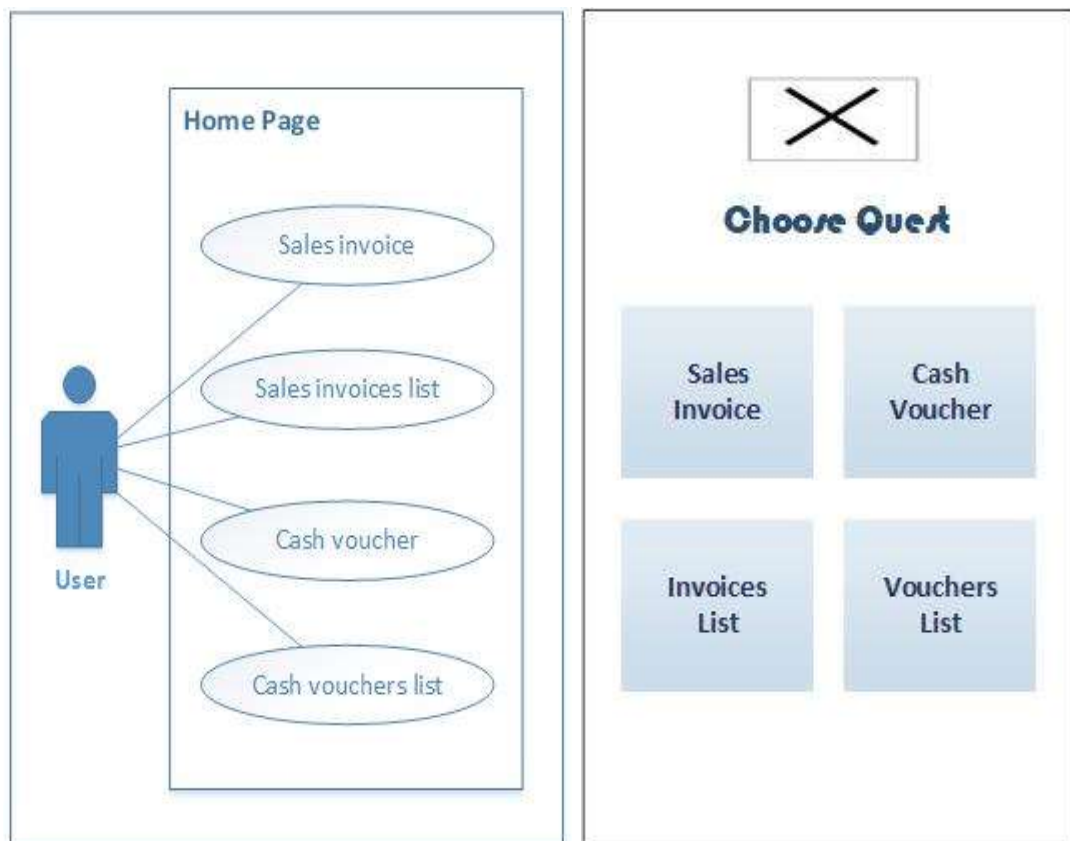
- **FR05: Home Page**

4.5.1. Description:
The user should be able to choose his quest:
- ❖ Sales rep. (add sales invoices and search invoices list)
- ❖ Debt collector (add cash voucher and search vouchers list)

4.5.3. Use case: 4.5.4. Wireframe

4.5.5. Field Specifications:

Field Name	Mandatory	Specifications
Company Logo	N	Attachment
Sales invoice button		Button that view sales invoice
Invoices list button		Button that view sales invoices list
Cash voucher button		Button that view cash voucher
Vouchers list button		Button that view cash vouchers list

- **FR05: Home Page**

4.5.6. Activity Diagram:
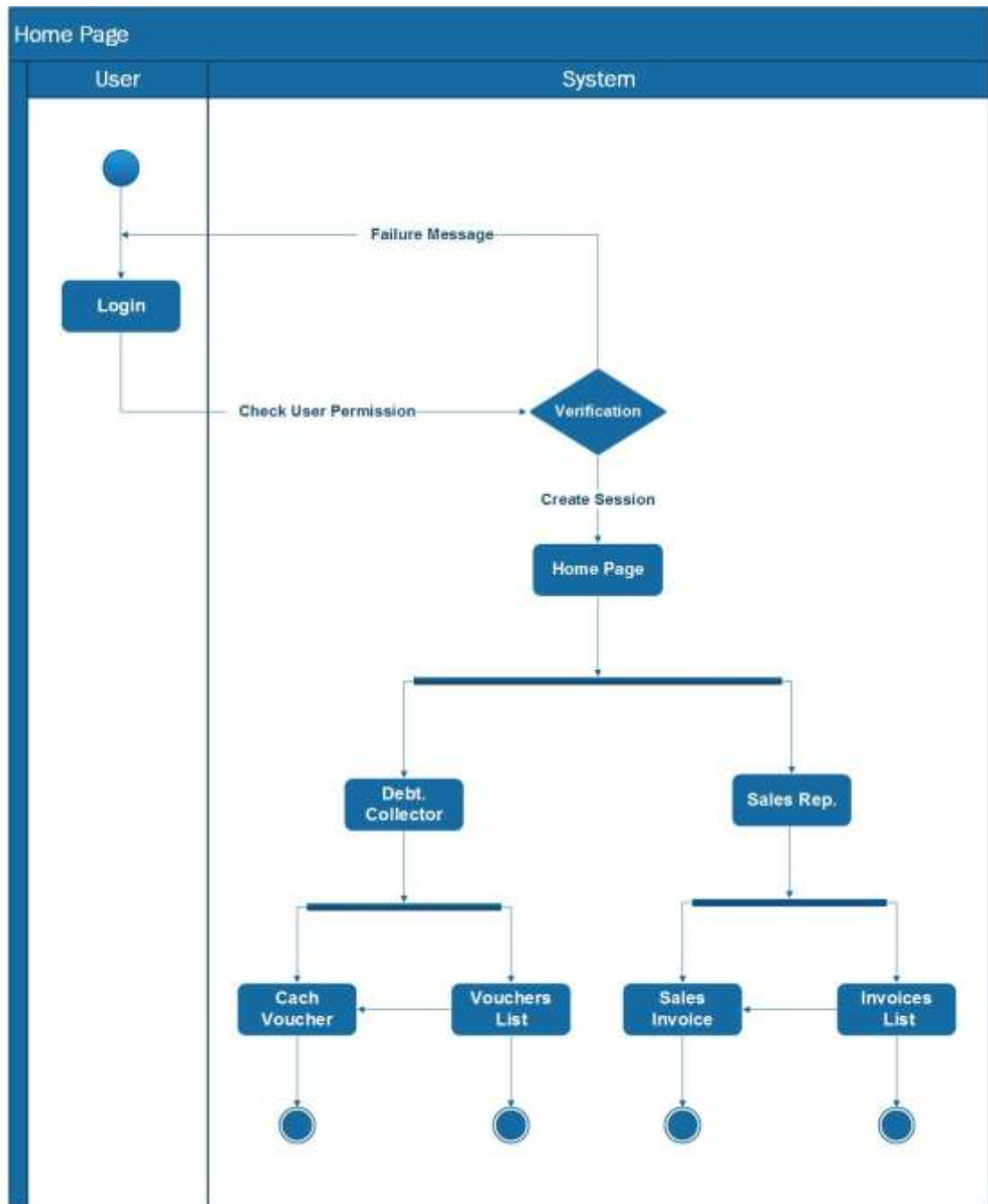
- **FR06: Sales Invoice**

4.6.1. Description:
The user should be able to create sales invoice, edit details, and make discount.
- ❖ Discount: up to 100% of total amount.
- ❖ Cash invoices: The user must select treasury because all net amount will be add to the user treasury. So the payment value must equal the net amount value, and then the remaining value will be zero.
- ❖ Credit invoices: The user must select customer because all net amount will be add to the customer balance. So, the net amount will be equal to the remaining amount and the payment cell will be disabled in this case**.**
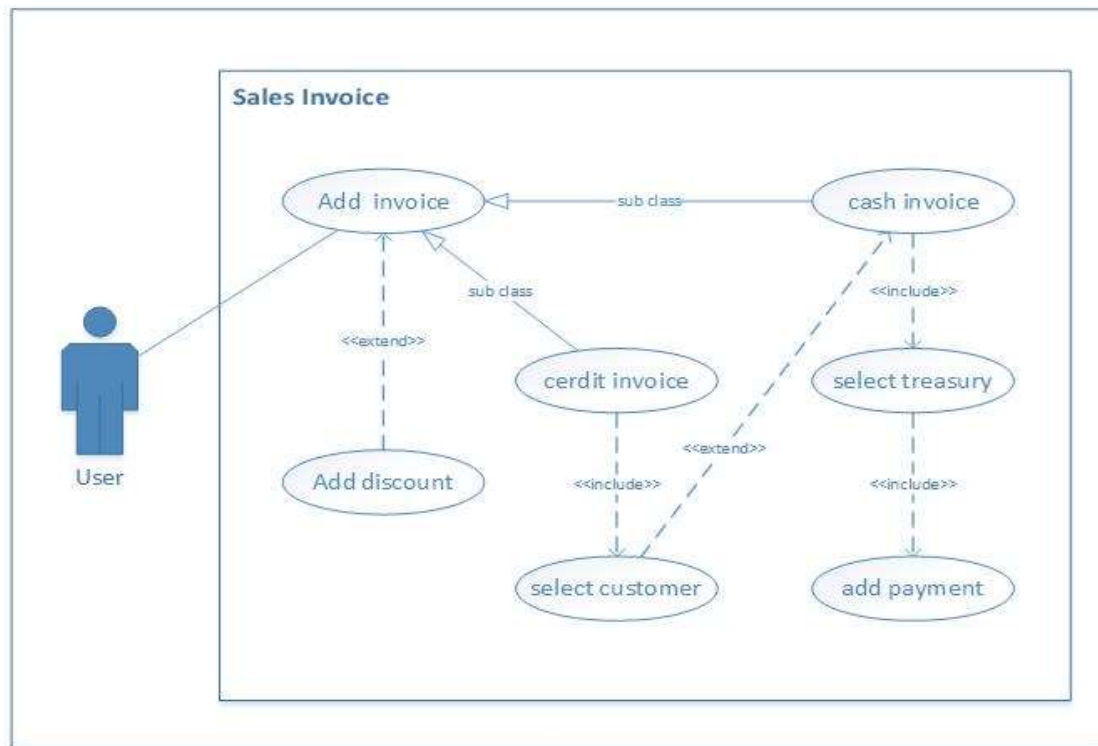
4.6.2. Goal:
To allow sales rep selling goods to customers using sales invoice.

4.6.3. Rules:

ID	Rule	Type
1	In case the treasury field in cash invoice is blank, the system will give us a message "Please check validation"	System
2	In case the pay amount field in cash invoice is blank, the system will give us a message "Please check validation"	System
3	In case the customer field in credit invoice is blank, the system will give us a message "Please check validation"	System
4	In case the discount value is over than total amount value, the system will give us a message "Please check validation"	System
5	In case either item or quantity field in invoice details is blank, the system will give us a message "Please check validation"	System

4.6.4. Use case:

4.6.5. Wireframe:

4.6.6. Field Specifications:

Field Name	Mandatory	Specifications
Invoice Logo	N	attachment
Backward button		Button that Backs for the home page
Invoice Number	N	String / auto generate
Invoice date	Default	Date / time
Pay Method	Y	Drop-down list that displays the invoice payment method either cash or credit
Treasury	Based on	Drop-down list that displays the available treasuries
Customer Text box	Based on	String
Select item Text box	Y	String
Add button		Button that add new (row)item to invoice details
Delete button		Button that delete the selected row from the invoice details
Save button		Button that save the current invoice
Item	Y	String
Price	Y	Numeric
Quantity	Y	Numeric
Amount		Numeric (Function = price * quantity)
Total Amount		Numeric (Function = sum (amount))
Discount	N	Numeric
Net Amount		Numeric (Function = Total Amount - Discount)
Payment	Based on	Numeric
Remaining		Numeric (Function = Net Amount - Payment)

- **FR07: Invoices List**

4.7.1. Description:
The user should be able to display all sales invoices, search by customer and period, add new, delete edit, and print invoice.
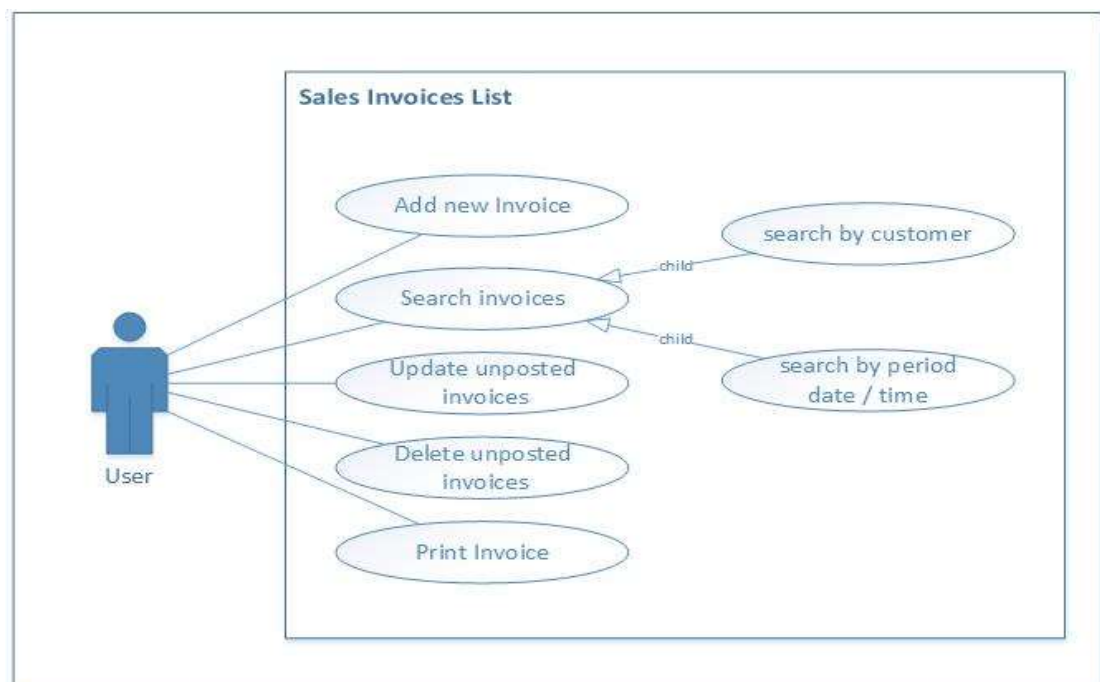
4.7.2. Goal:
To display all invoices and search (Inquiry screen).

4.7.3. Rules:

ID	Rule	Type
1	User can't delete "posted invoices", the system will disable the delete button	Business
2	User can't edit "posted invoices", the system will disable the edit button	Business
3	User can delete "unposted invoices", the system will give us a message "Invoice has deleted successfully"	System
4	User can edit "unposted invoices", the system will give us a message "Invoice has updated successfully"	System

4.7.4. Use case:

4.7.5. Wireframe:

4.7.6. Field Specifications:

Field Name	Mandatory	Specifications
Invoice List Logo	N	attachment
Backward button		Button that Backs for the home page
Add button		Button that add new invoice
Customer Text box	N	String
Start date	N	Date / time
End date	N	Date / time
Delete button		Button that delete unposted invoice
Edit button		Button that update unposted invoice
Print button		Button that print invoice

- **FR08: Cash Voucher**

4.8.1. Description:
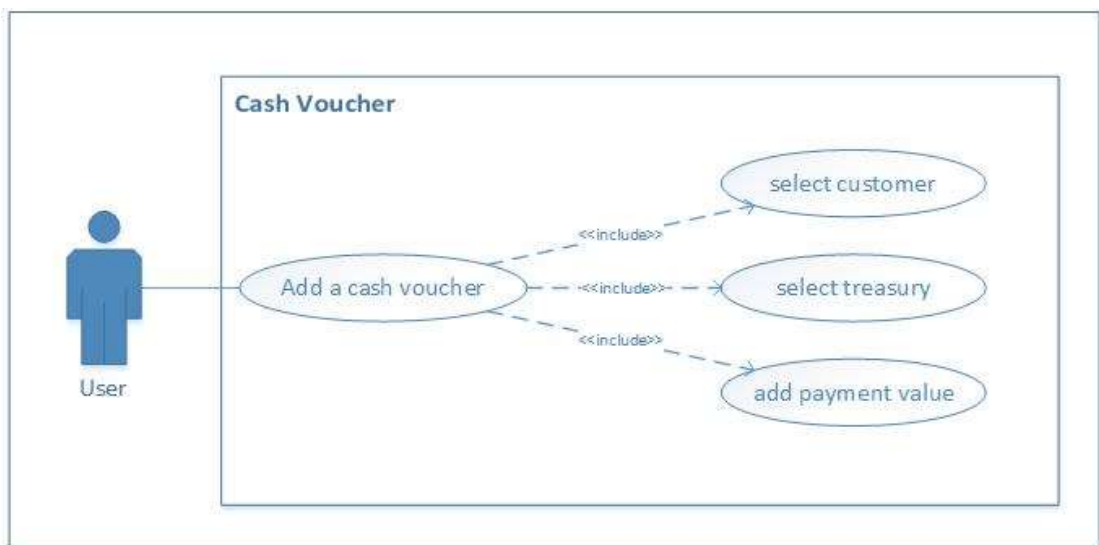The user should be able to create cash voucher.

4.86.2. Goal:
To be able to collect customer's debit balance using cash voucher.

4.8.3. Rules:

ID	Rule	Type
1	In case the treasury field in voucher details is blank, the system will give us a message "Please check validation"	System
2	In case the customer field in voucher details is blank, the system will give us a message "Please check validation"	System
3	In case the payment field in voucher details is blank, the system will give us a message "Please check validation"	System
4	In case the payment value equal, higher, or less than the balance value the system will give us a message "Cash voucher created successfully"	System

4.8.4. Use case:

4.8.5. Wireframe:

4.8.6. Field Specifications:

Field Name	Mandatory	Specifications
Voucher Logo	N	attachment
Backward button		Button that Backs for the home page
Save button		Button that save the current voucher
Voucher number	N	String / auto generate
Voucher date	Default	Date / time
Treasury	Y	Drop-down list that displays the available treasuries
Customer Text box	Y	String
Balance		Numeric / INQUIRY
Payment	Y	Numeric
Remaining		Numeric (Function = balance – payment)
Notes	N	String

- **FR09: Vouchers List**

4.9.1. Description:
The user should be able to display all cash vouchers, search by customer and period, and add new, delete, edit, and print voucher.
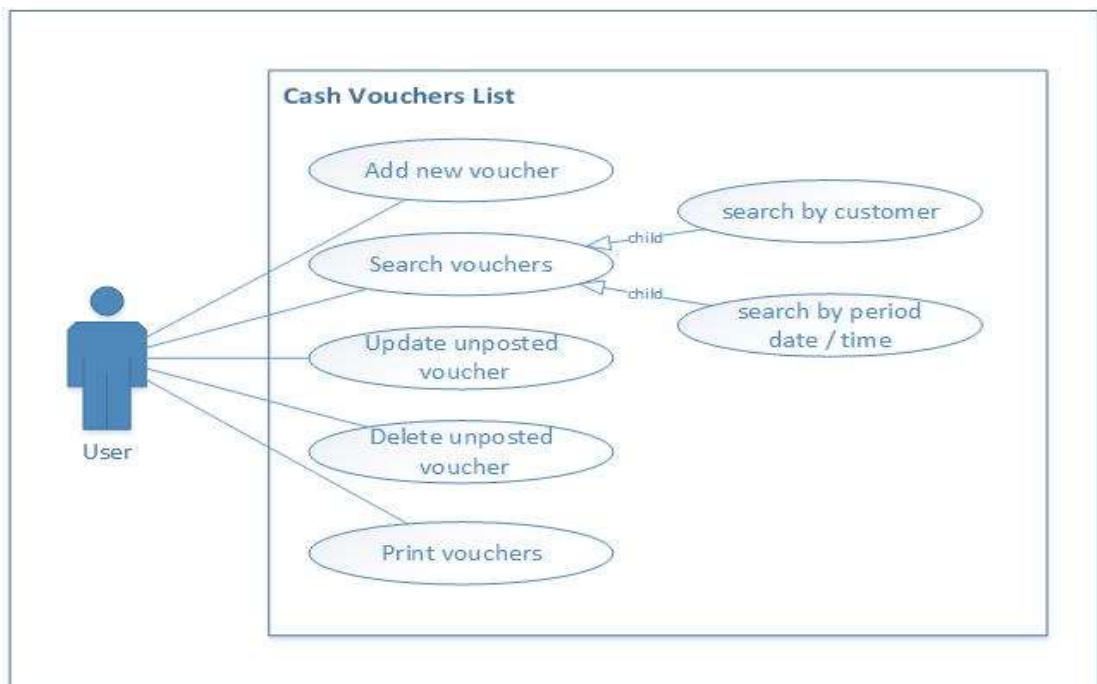
4.9.2. Goal:
To display all vouchers and search (Inquiry screen).

4.9.3. Rules:

ID	Rule	Type
1	User can't delete "posted vouchers", the system will disable the delete button	Business
2	User can't edit "posted vouchers", the system will disable the edit button	Business
3	User can delete "unposted vouchers", the system will give us a message "voucher has deleted successfully"	System
4	User can edit "unposted vouchers", the system will give us a message "voucher has updated successfully"	System

4.9.4. Use case:

4.9.5. Wireframe:

4.9.6. Field Specifications:

Field Name	Mandatory	Specifications
Invoice List Logo	N	attachment
Backward button		Button that Backs for the home page
Add button		Button that add new voucher
Customer Text box	N	String
Start date	N	Date / time
End date	N	Date / time
Delete button		Button that delete unposted voucher
Edit button		Button that update unposted voucher
Print button		Button that print voucher

5. Non Functional Requirements

- **Performance Requirements**

ID	Description
NF1.01	Mobile application must support English and Arabic Language
NF1.02	Mobile application must respond to the business operation in less than 3 seconds
NF1.03	Mobile application must display a confirmation message before applying the operation
NF1.04	Mobile application must respond to the validation messages (success or failure) to the user within 2 seconds
NF1.05	Mobile application must work on different smart devices: • IOS 00 or higher • Android 00 or higher • Tablet view

- **Safety Requirements**

ID	Type	Method	Schedule	Destination
NF2.01	Full Backup	Automatic	Daily	QNAP Server
NF2.02	Full Backup	Manual	Daily	Google Drive
NF2.03	Full Backup	Manual	Daily	External HD

- **Security Requirements**

ID	Description
NF3.01	Mobile application must handle safety login and logout through the session
NF3.02	Hashing technology should be used to handle the secure login for the user
NF3.03	Mobile application could use SSL (secure socket layer) to secure the data being transmitted
NF3.04	Ensure all The OWASP Proactive Controls have been applied in the core ERP web application