

Centre Name: ACE-HCMC-2-FPT.

Address: 590 Cach Mang Thang 8, District 3, Ho Chi Minh City, Viet Nam.

OnlineBanking

Supervisor:	Mr. Dinh Vu Quoc Trung	
Semester:	3	
Batch No:	T1.1712.E0	
Group No:	5	
Order:	Full name	Roll No.
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2.	NGUYEN HONG PHUONG	STUDENT1086373
3.	NGUYEN THI THUY TRANG	STUDENT1081669
4.	NGUYEN DINH THAI	STUDENT1081263

March 2019

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This is to certify that

Mr. Dang Huu Nhan

Mr. Nguyen Hong Phuong

Ms. Nguyen Thi Thuy Trang

Mr. Nguyen Dinh Thai

**have successfully designed
and developed :**

OnlineBanking

Submitted by:

Dinh Vu Quoc Trung

Date of Issue: _____

Authorized Signature: _____

Project Group No.: 05	Prepared by All members	Approved by Mr.Dinh Vu Quoc Trung
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REVIEW I

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I. ACKNOWLEDGEMENT

We would like to acknowledge all those who have given support and help us make the project a success.

We wish to express our deep gratitude to all teachers who have been devoting their lives to teach us how to stand-alone and walk ahead.

We are grateful to our families who take care and encourage us even though we are successful or failed, also to our friends who are always care of us. They never leave us alone and always look forward to us when we are on any road of the life.

We are much thankful to the entire staff and chairpersons at the Head Office of Aptech Worldwide, Aptech – Vietnam, and FPT – Aptech Center who have been organizing and looking after our studying course.

There are no words to show our appreciation for teachers of FPT Aptech Centre who have been organizing and looking after us during our studying course to finish this project. Our special thanks Mr Dinh Vu Quoc Trung who works day by day to teach and guide us ,e-Project Team at the Head Office who instruct and help us.

Finally, we would like to offer many thanks to all our schoolfellows for their valuable suggestions.

We would like to thank sincerely!

Group 5 – FPT Aptech.

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II. PROBLEM DEFINITION

i. Introduction

Nowadays services of bank have been improved and more convenient thanks to the development of Technology. As a result, Online Banking became the most popular service in both payment and transaction. In order to satisfy the high demand of customers, online banking system must be faster and efficient. Therefore, an effective and secure program needs to be implemented.

ii. Existing Scenario

This Application enables us to transfer money and perform other transaction even there is no necessary to fill a form at the bank counter, i.e we can directly check our Balance Enquiry, transfer funds to another account in the same bank. In addition, online banking supports us to request for cheque book or stop payment of cheques as needed. All these tasks will be performed safely as this application secures our account, only customers having a valid User Id and Password could access banking system.

iii. Requirement Specification

1. Customer Requirement Specification:

1.1. Administrator

Administrator will have ability of managing:

- User information.
- User accounts management.
- Reply the specific question from user.

1.2. Customer

User will have abilities:

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- Login/logout.
- View their profile.
- Fund transfer.
- View their accounts by detail.
- View monthly/annual report and print.
- Change their current address .
- View list of her/his accounts, balance enquiry and last 'n' number of transactions detail of each accounts.
- Request cheque book / stop payment of cheque.

1.3. Guest

Guest will have abilities:

- View web page info.

2. Hardware / Software Requirements

2.1. Server Requirements

Hardware

Component	Requirement
CPU	Processor type: Core i5 or faster Processor speed: Recommended: 2.0 GHz or faster
OS	Microsoft Windows Server 2012 with IIS
Memory (RAM)	RAM: Minimum: 2GB Recommended: 4 GB or more
Hard Drive	Free space: Minimum: 400 MB Recommended: 50 GB or more Maximum: Operating system maximum

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Software

Component	Requirement
Microsoft Visual Studio Community	2017
Microsoft .NET Framework	Version 4.6.1
RDBMS	Microsoft SQL Server 2014 or more

2.2. Client Requirements

Hardware

Component	Requirement
CPU	Processor type: Core i5 or faster Processor speed: Recommended: 1.0 GHz or faster
OS	Window
Memory (RAM)	RAM: Minimum: 512 MB Recommended: 1 GB or more Maximum: Operating system maximum
Hard Drive	Free space: Minimum: 10 MB

Software

Component	Requirement
Web Browser	Chrome 70 or Higher with JavaScript enable

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TASK SHEET REVIEW 1

Project Ref.No: 5	Project Tittle: OnlineBanking	Date of Preparation of Activity Plan:			
		Actual Start Date	Actual Days	Team Mates Names	Status
01	Acknowledgment	19,March,2019	3	All Members	Completed
02	Problem Definition			All Members	
03	Customer Requirement			All Members	
04	Hardware/Software			All Members	
05	Task sheet			All Members	

	Prepare By: Group 5	Approved By: Faculty
	Team Leader	
Date: March 22, 2019	Dang Huu Nhan	Dinh Vu Quoc Trung

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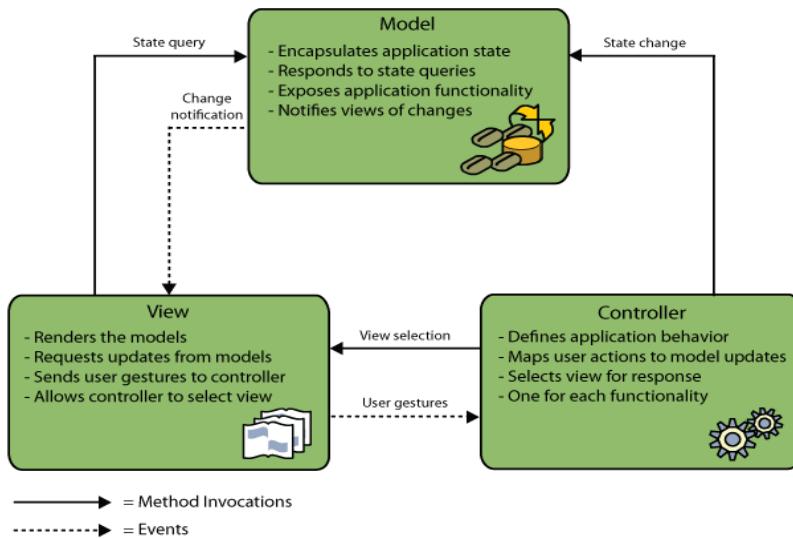
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REVIEW II

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I. Architecture & Design of the Project



iv. View layer:

View is a user interface. View display data using model to the user and also enables them to modify the data.. View layer used to receive a request and response to User. Technology: Razor, HTML, CSS, JavaScript, Ajax, Jquery and Bootstrap.

v. Model layer:

Is mainly working as the bridge between Controller layer and View layer. Model represents shape of the data and business logic. It maintains the data of the application. Model objects retrieve and store model state in a database.

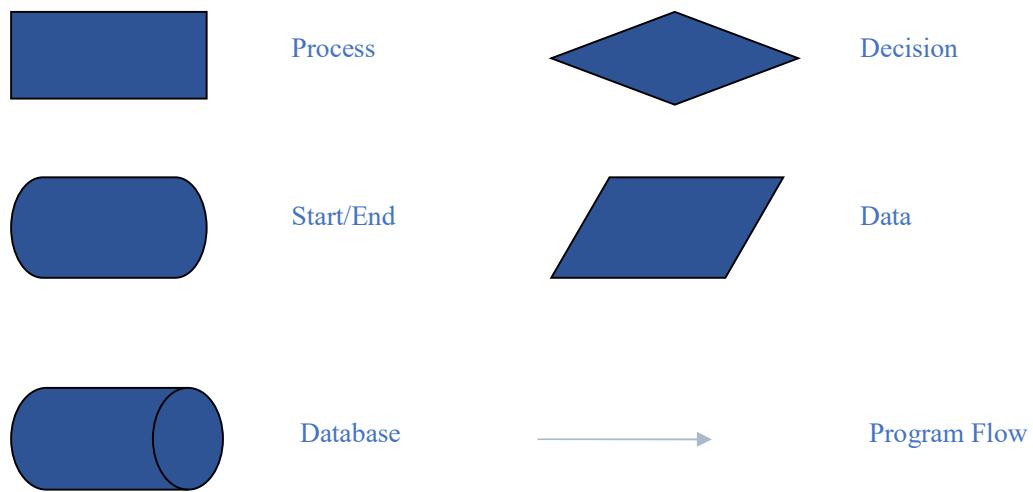
vi. Controller layer:

Controller handles the user request. Typically, user interact with View, which in-turn raises appropriate URL request, this request will be handled by a controller. The controller renders the appropriate view with the model data as a response.

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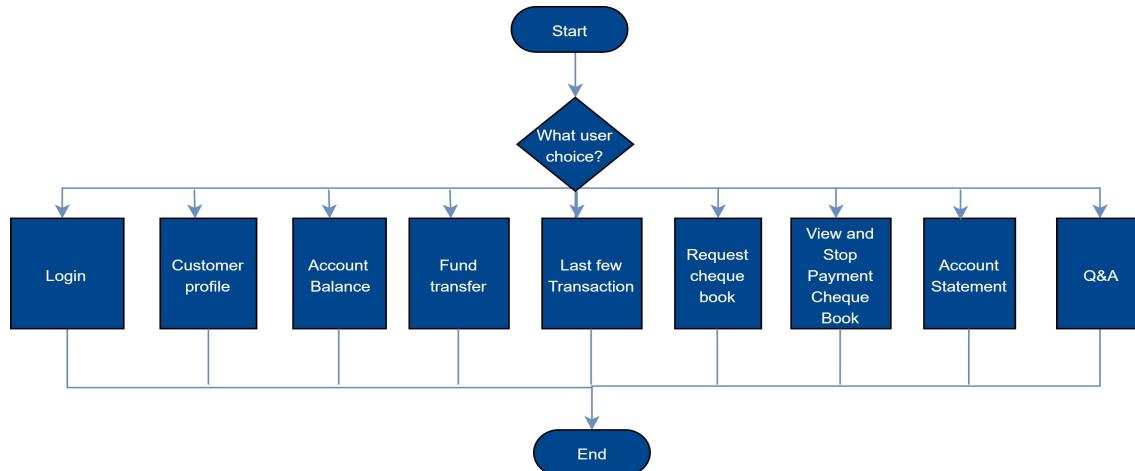
III. Algorithms - Flowchart:



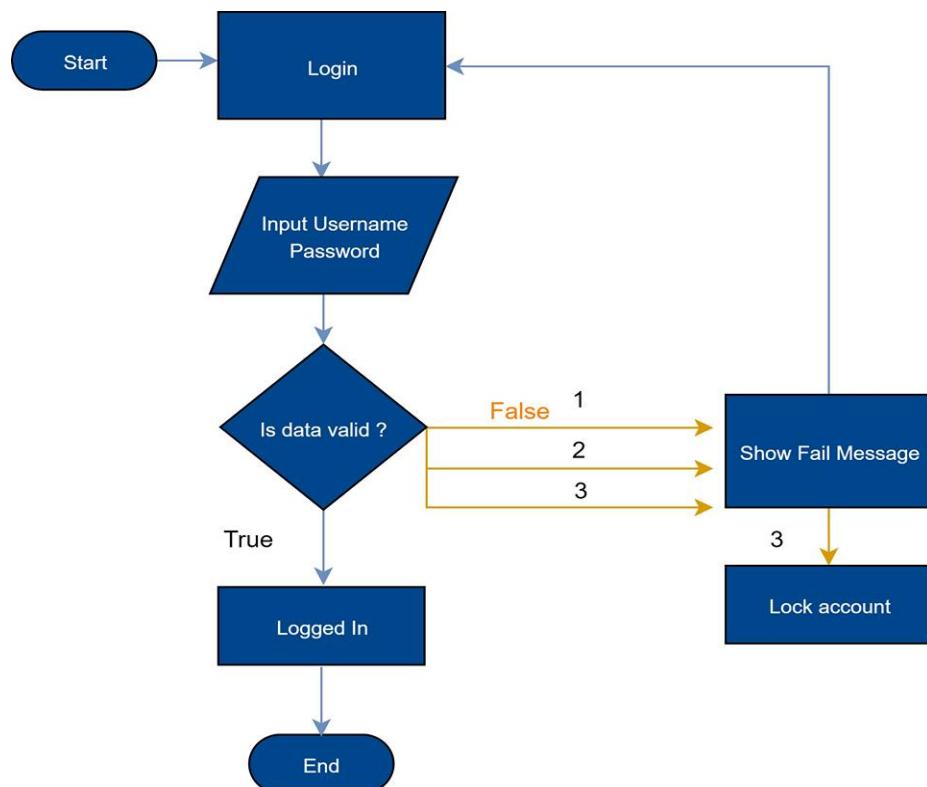
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1. Main flow for customers



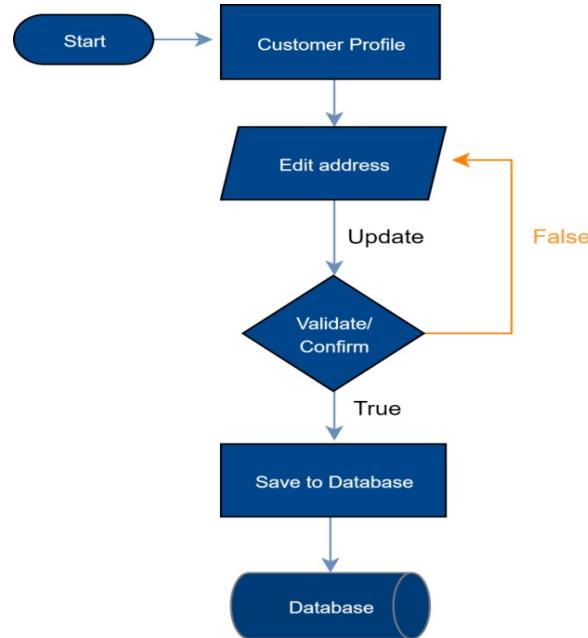
2. Login process (For Customers)



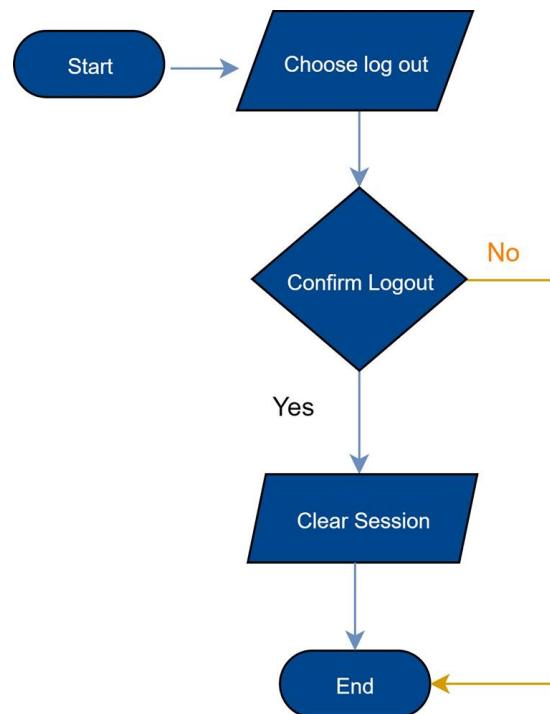
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3. Update Profile (For Customers)



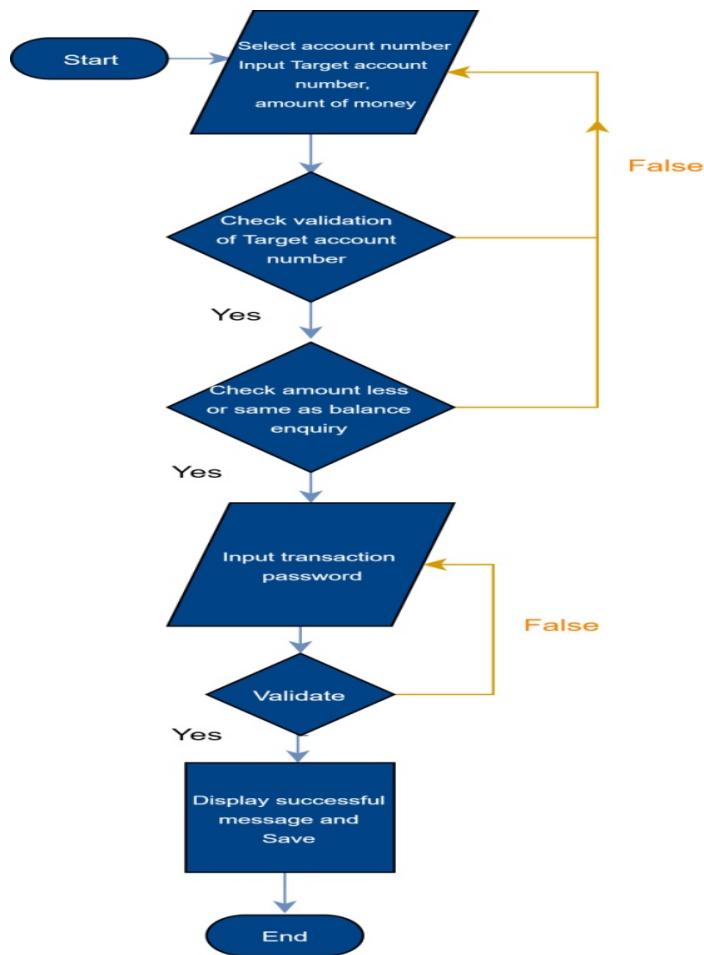
4. Logout process (For Customers and Admins)



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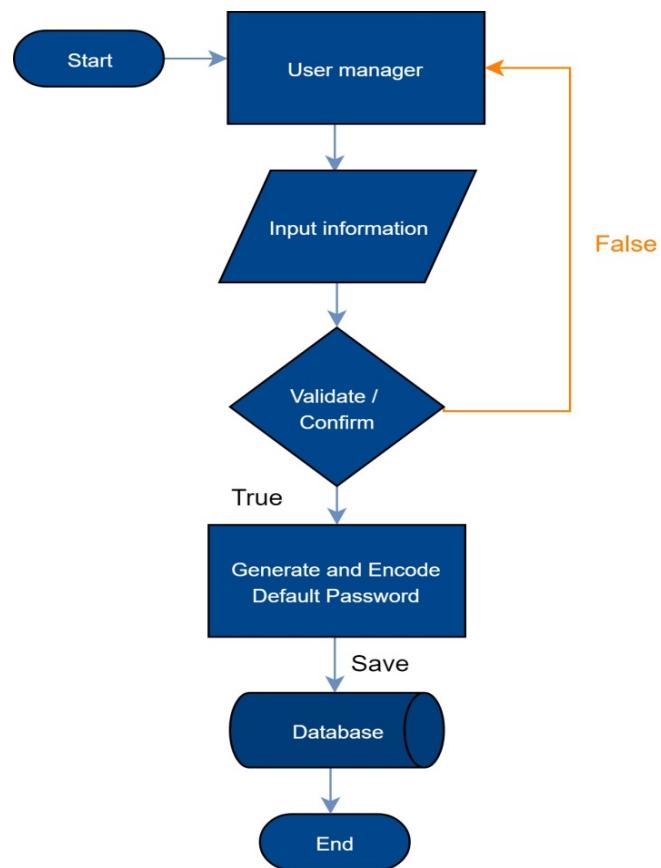
5. Customers transfer fund



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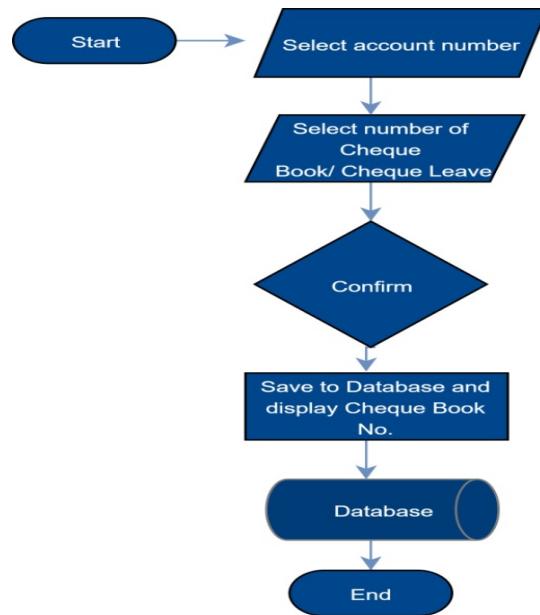
6. Insert Users (For admin only)



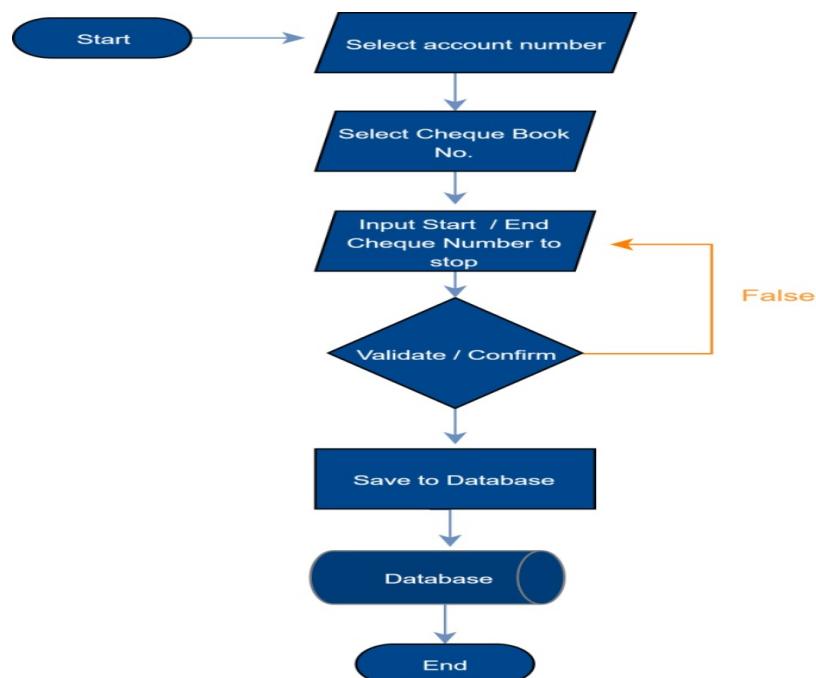
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7. Request Cheque Book (For Customers)



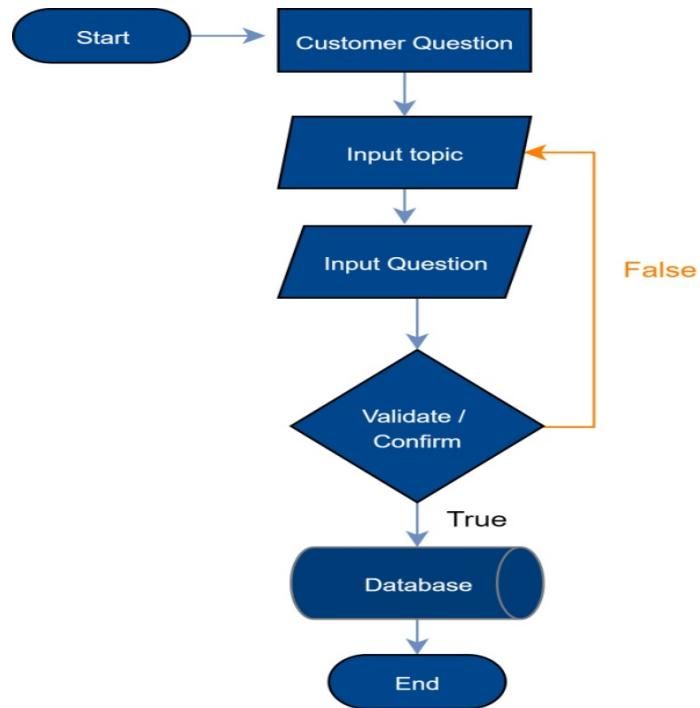
8. Stop Cheque Book Payment (For Customers)



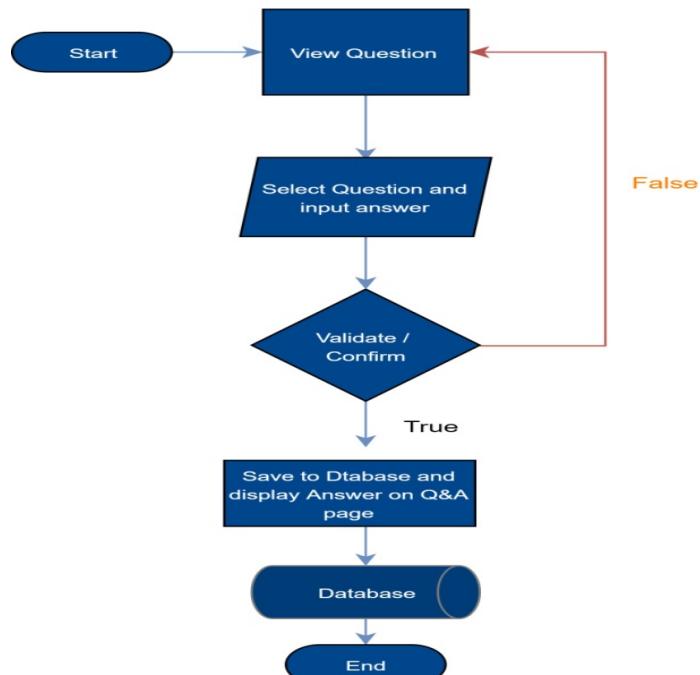
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9. Write Customers's questions (For Customer)



10. Reply Customers's questions (For Admin)



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IV. Flow Diagram

Define: Data Flows Diagram (DFD) describes the information flow in the system. The next step of system analysis is to consider in detail the information necessary for the implementation for functions discussed above and the one necessary for the improvement of the functions. Modelling tool frequently used for this purpose is DFD. DFD will support 4 main activities:

Analysis: DFD is used to determine requirement of users.

Design: DFD is used to map out plan and illustrate solution to analysis and users while designing a new system.

Communication: one of the strength of DFD is its simplicity and ease to understand to analysts and users.

Document: DFD is used to provide special description of requirement and system design. DFD provide an overview of key functional components of the system but it does not provide any detail on these components. We have to use other tools like database dictionary, process specification to get an idea of which information will be exchanged and how.

The main components of Context Diagram:



External

The external factors: External factors can be a person, a group of persons or an organization that are sources of information for the systems and are where system products are transferred to.



The process

The process: Shows the common function of system
The data flow: Describe the movement of information from one part of the system to another.



Data flow

The data store: The Data Store is used to model a collection of data packets at rest. A store is represented graphically by two parallel lines. The name of a Data Store that identifies the store is the plural of the name of the packets that are carried by flows into and out of the Data Store

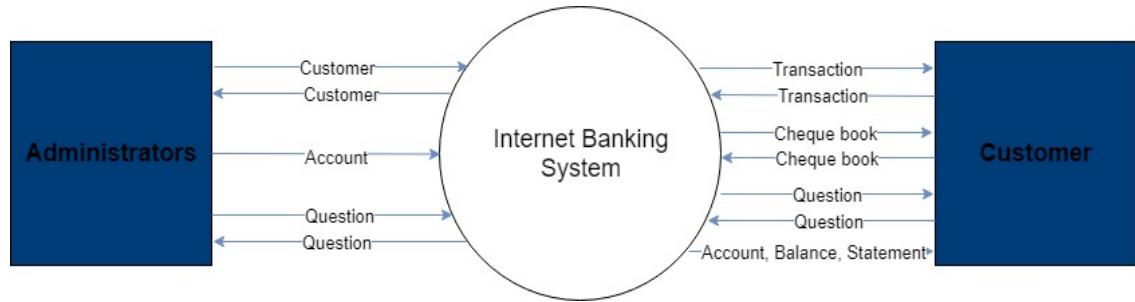


Data store

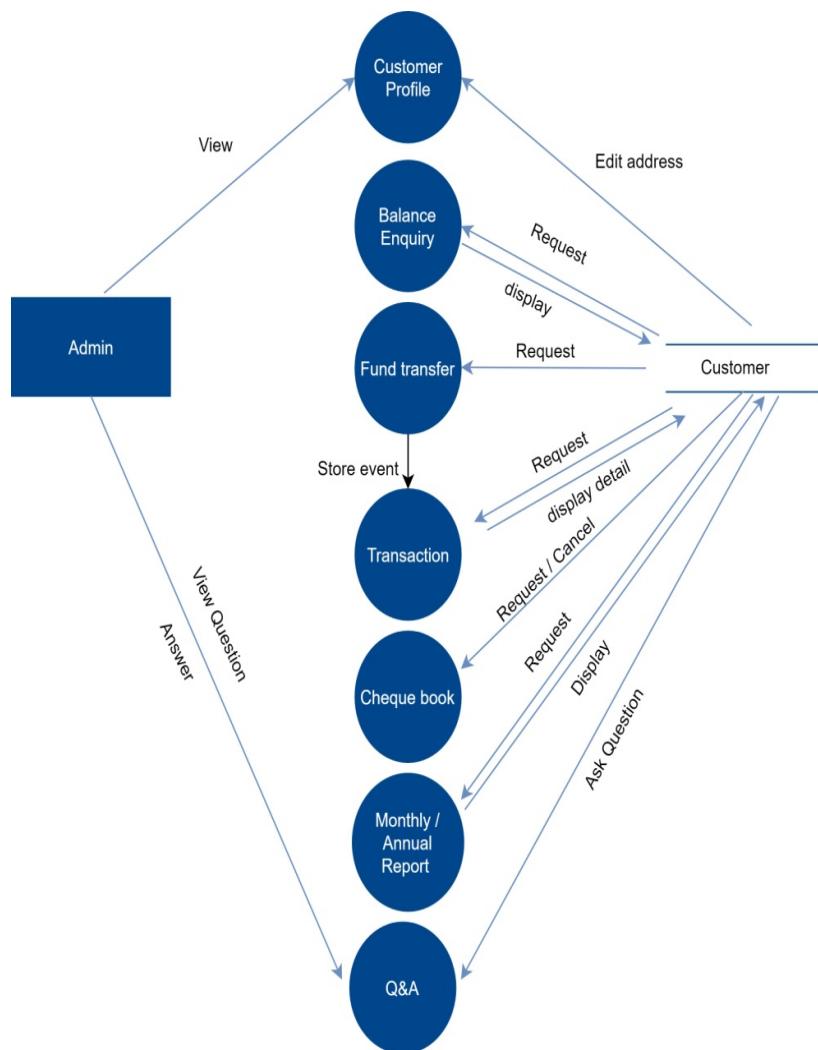
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1. Context Level Diagram



2. Level 0 DFD

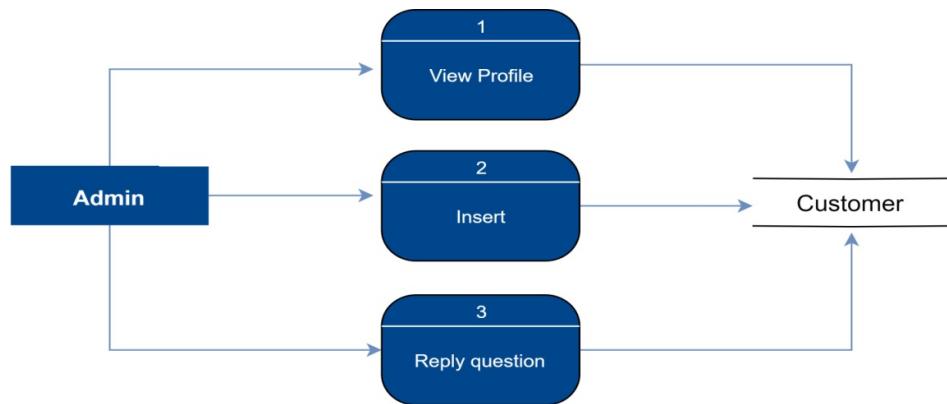


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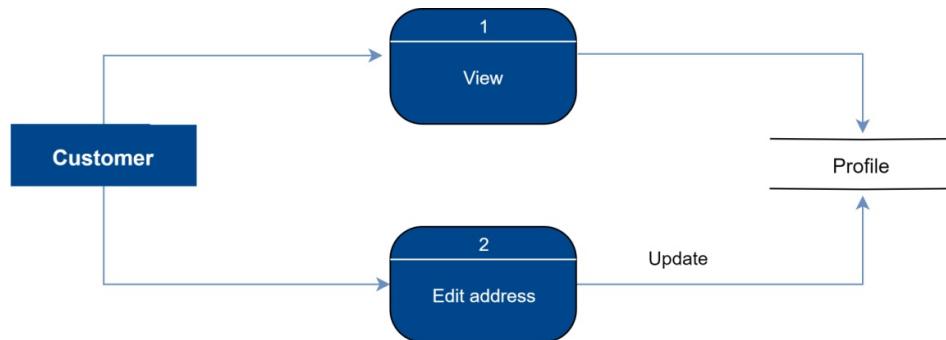
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3. Level 1 DFD

3.1 Administrators manage customers



3.2 Customers edit address

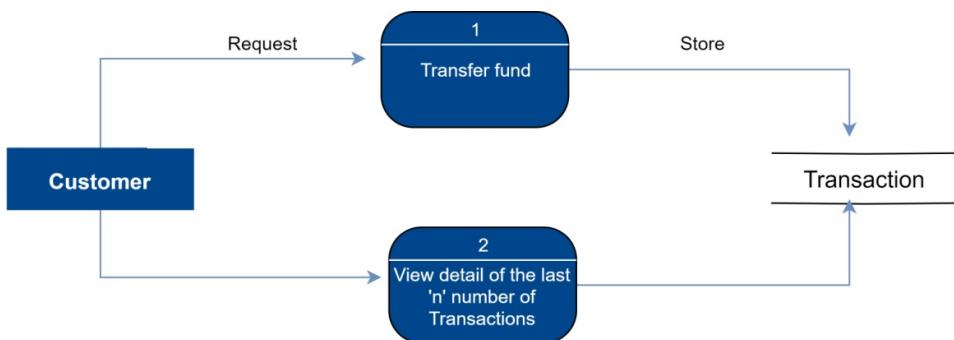


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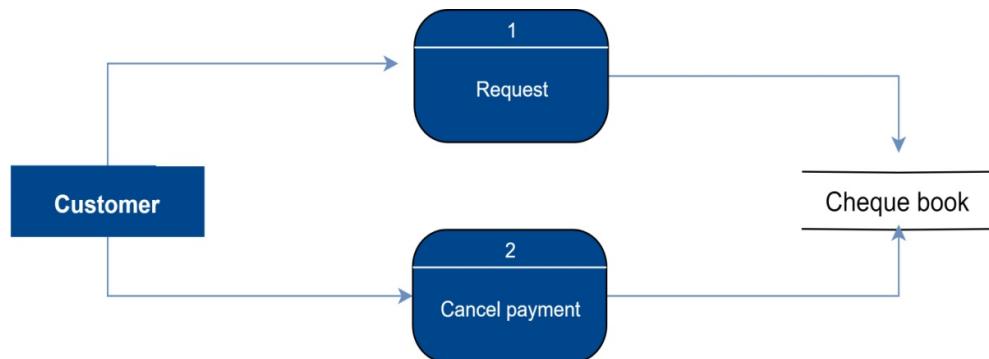
3.3 Customers view balance enquiry



3.4 Customers transfer funds

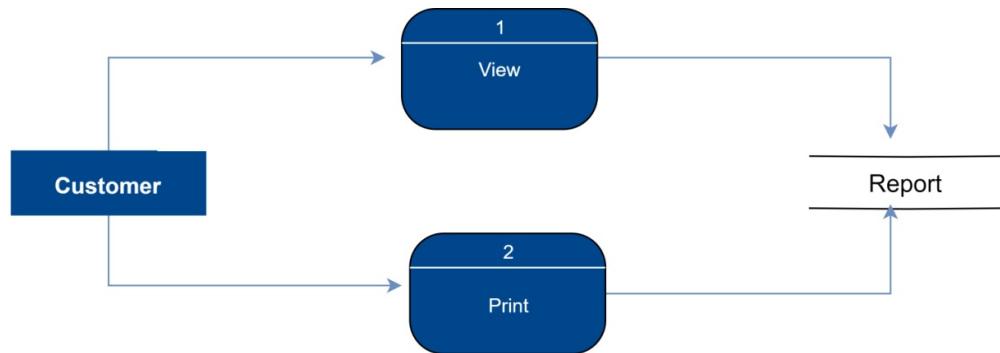


3.5 Customers request and cancel Cheque book



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3.6 Customers request Monthly/Annual statement



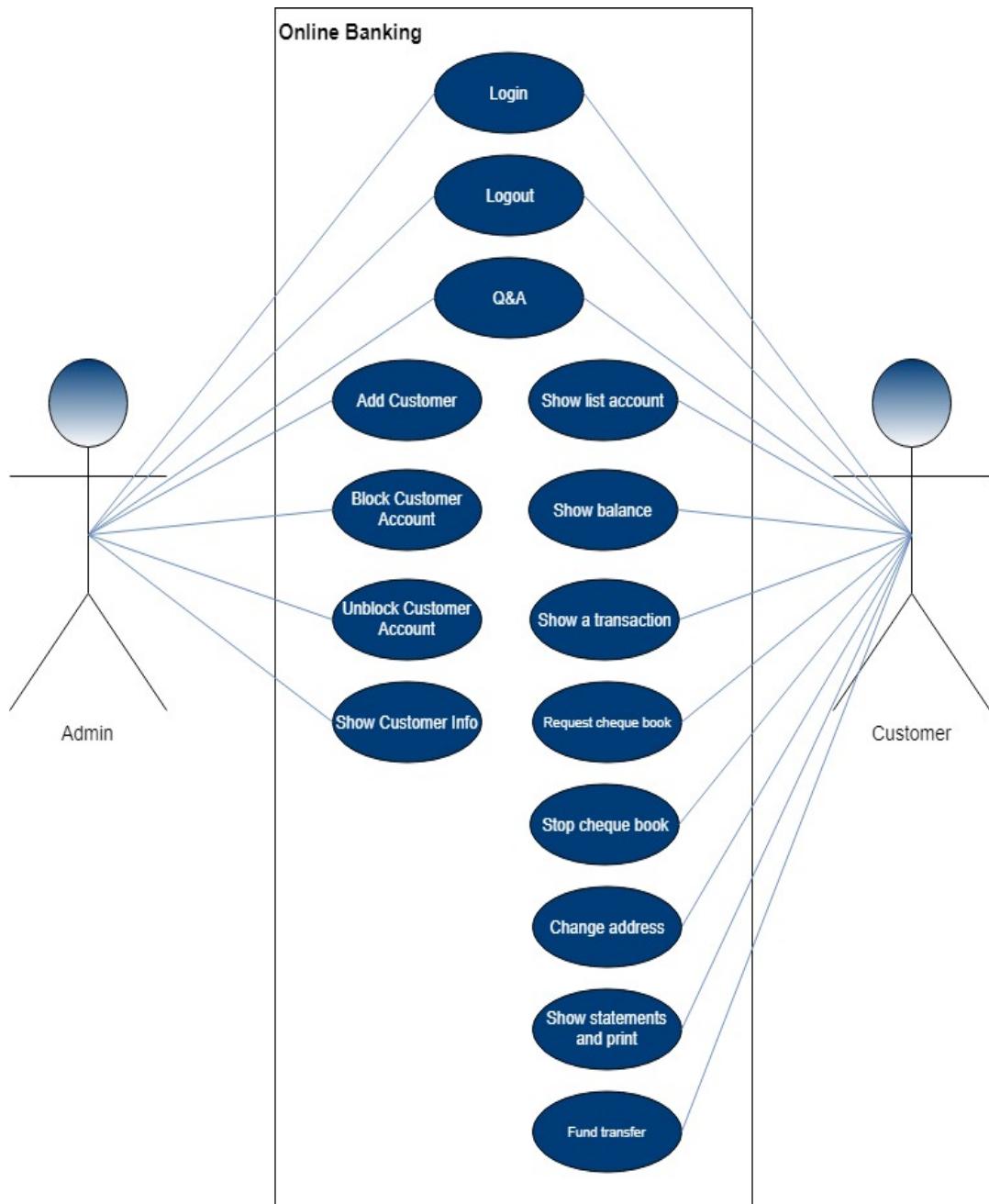
3.7 Customers question Admin



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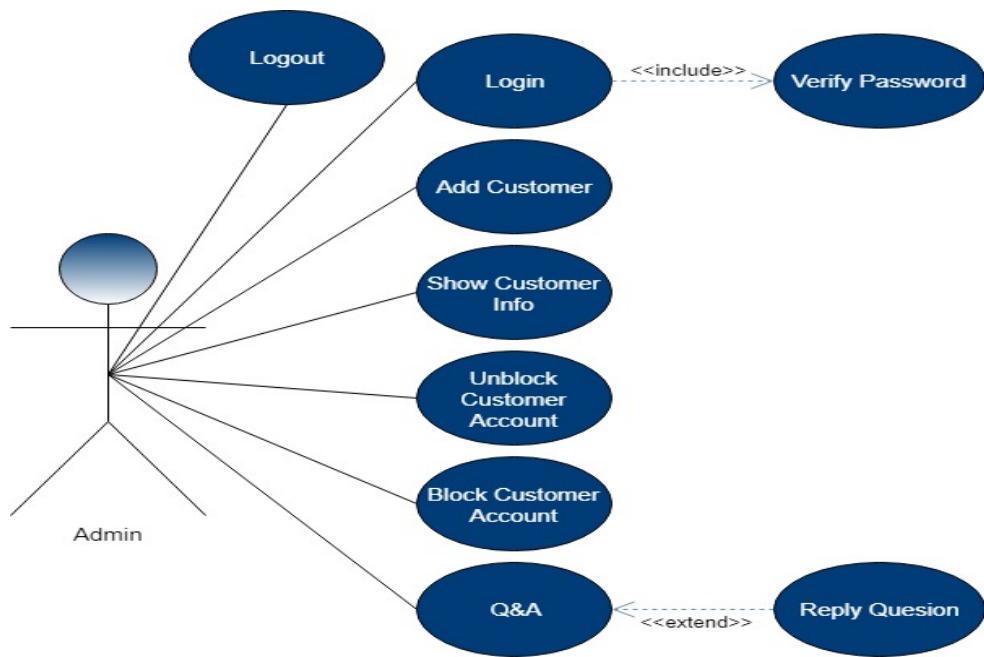
V. Use - Case Diagram



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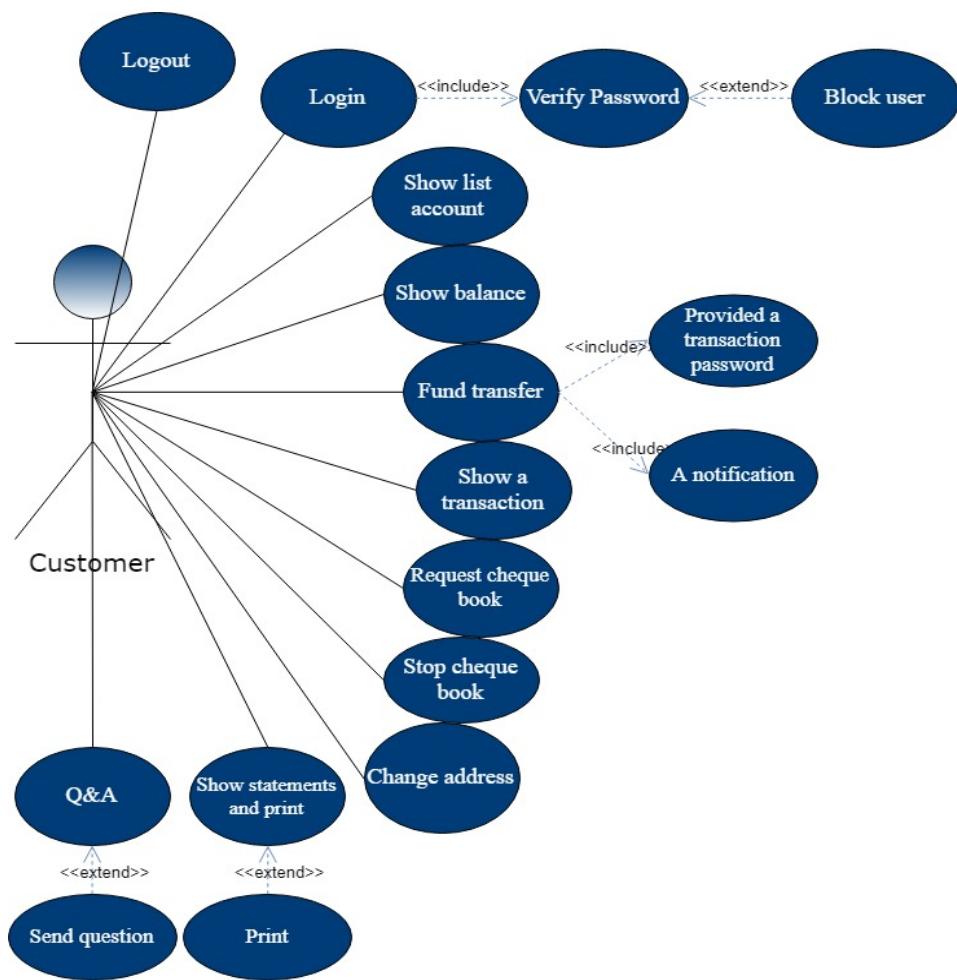
1. Admin Use Case



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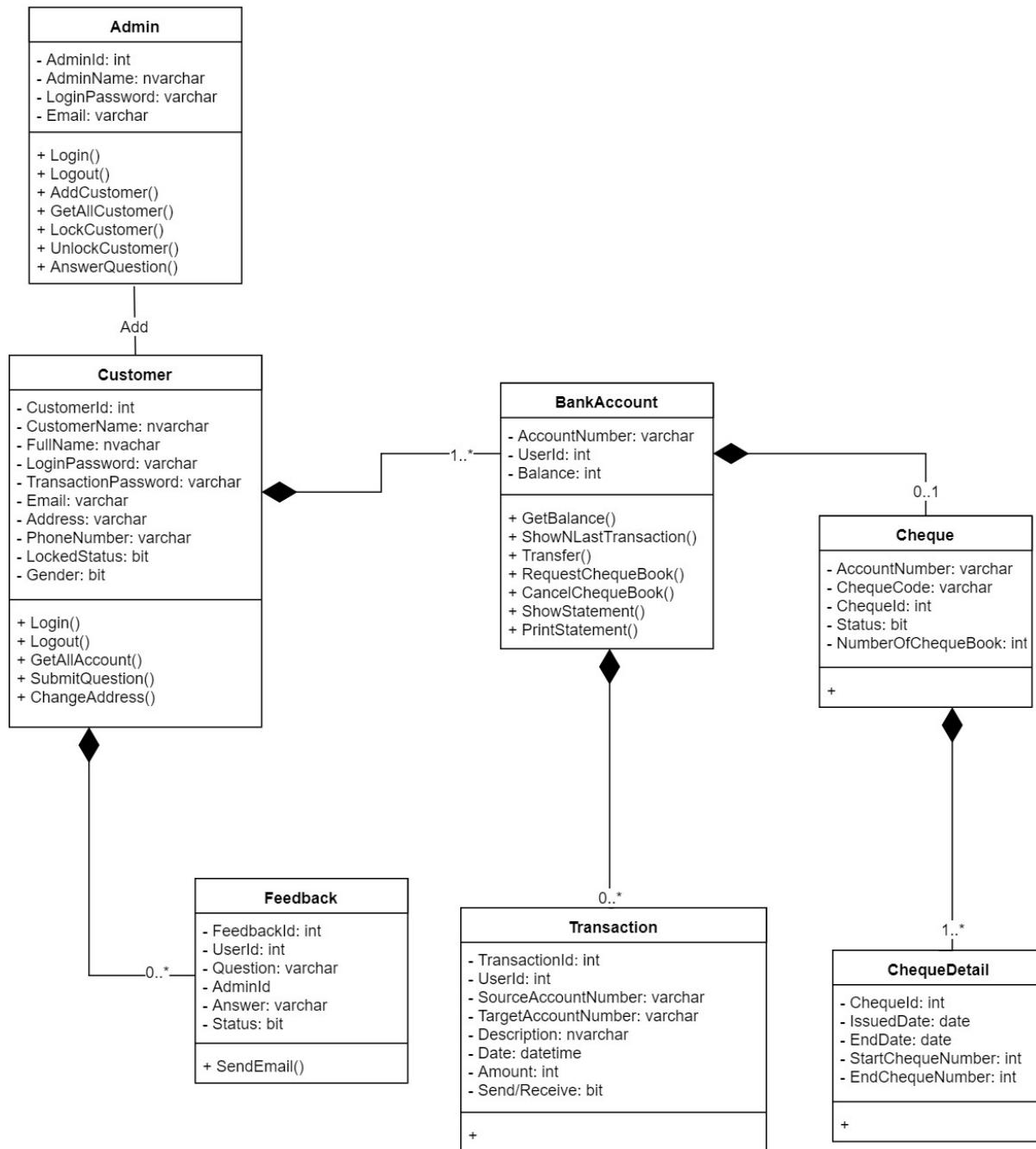
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2. Customer Use Case



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VI. Class Diagram

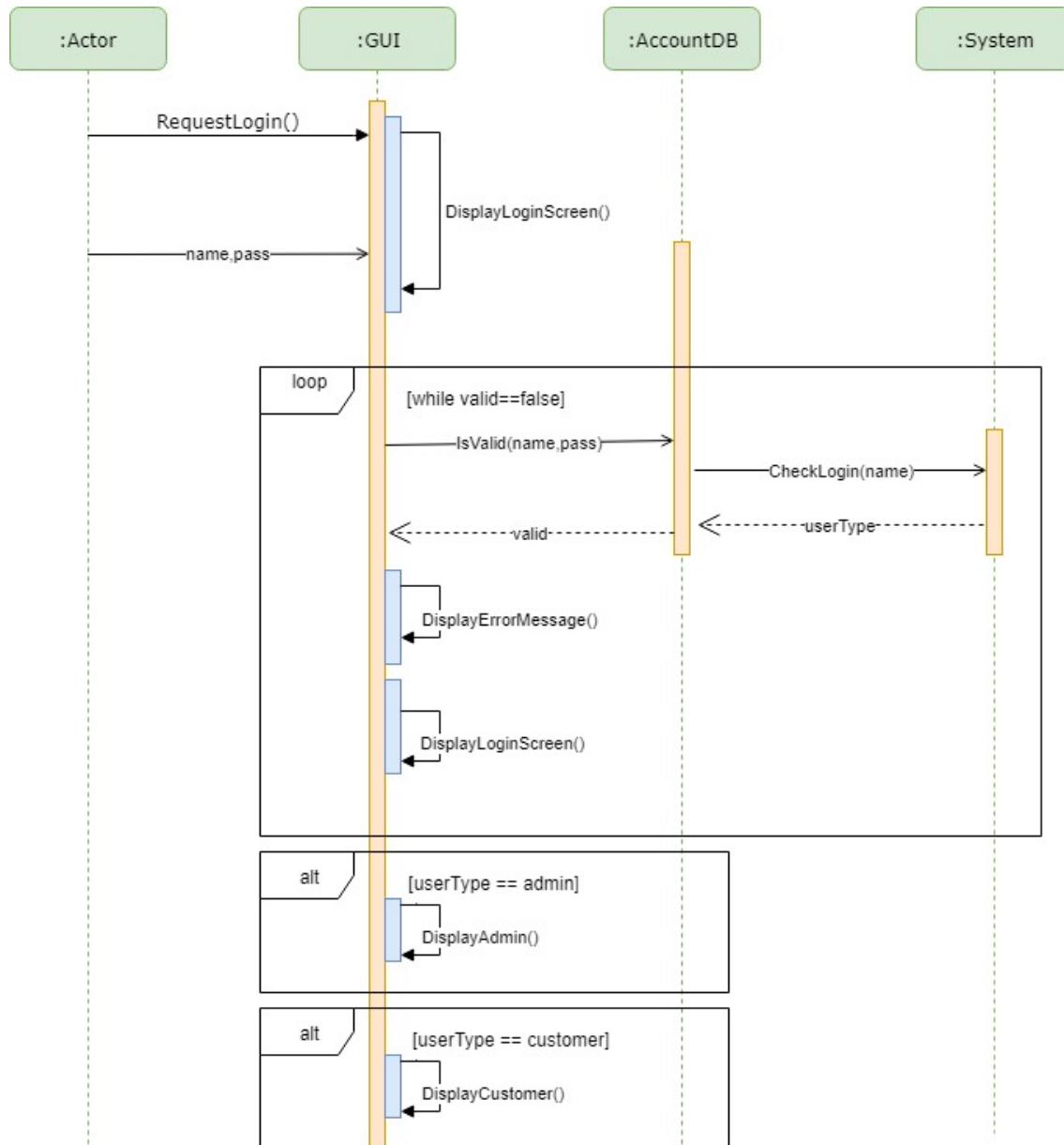


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VII. Sequence Diagram

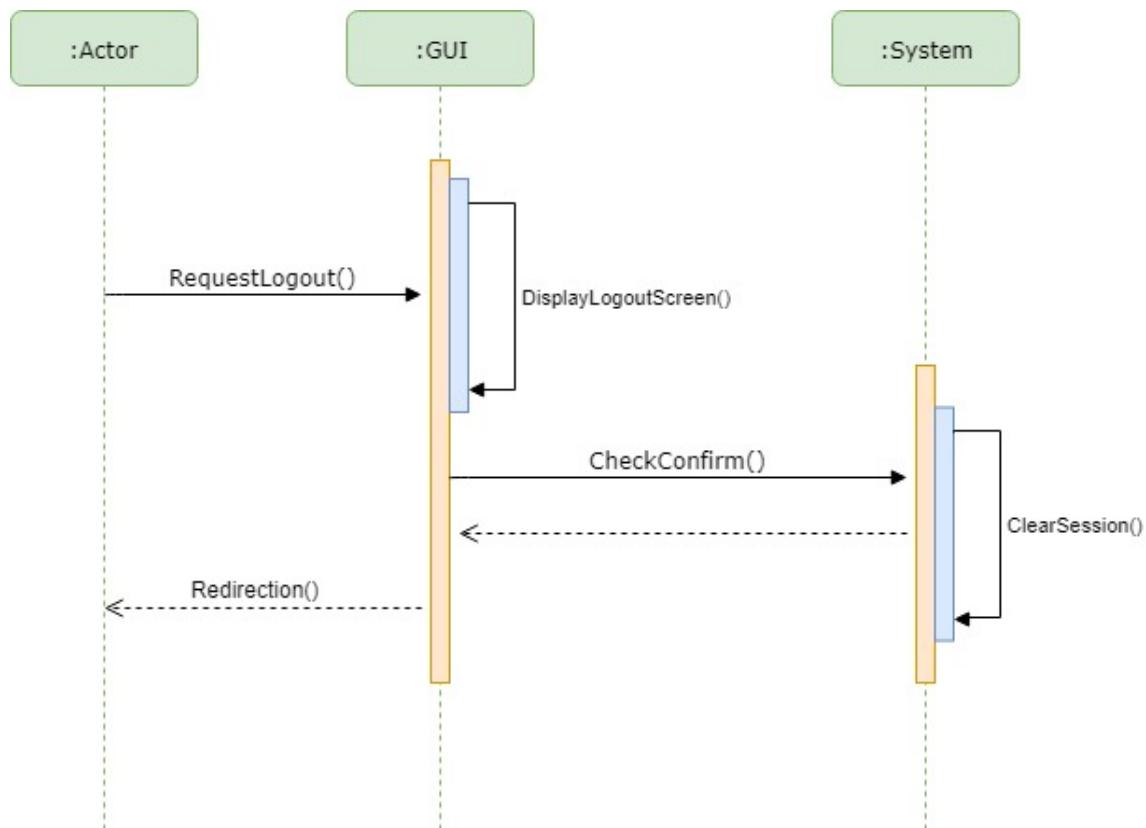
1. Login



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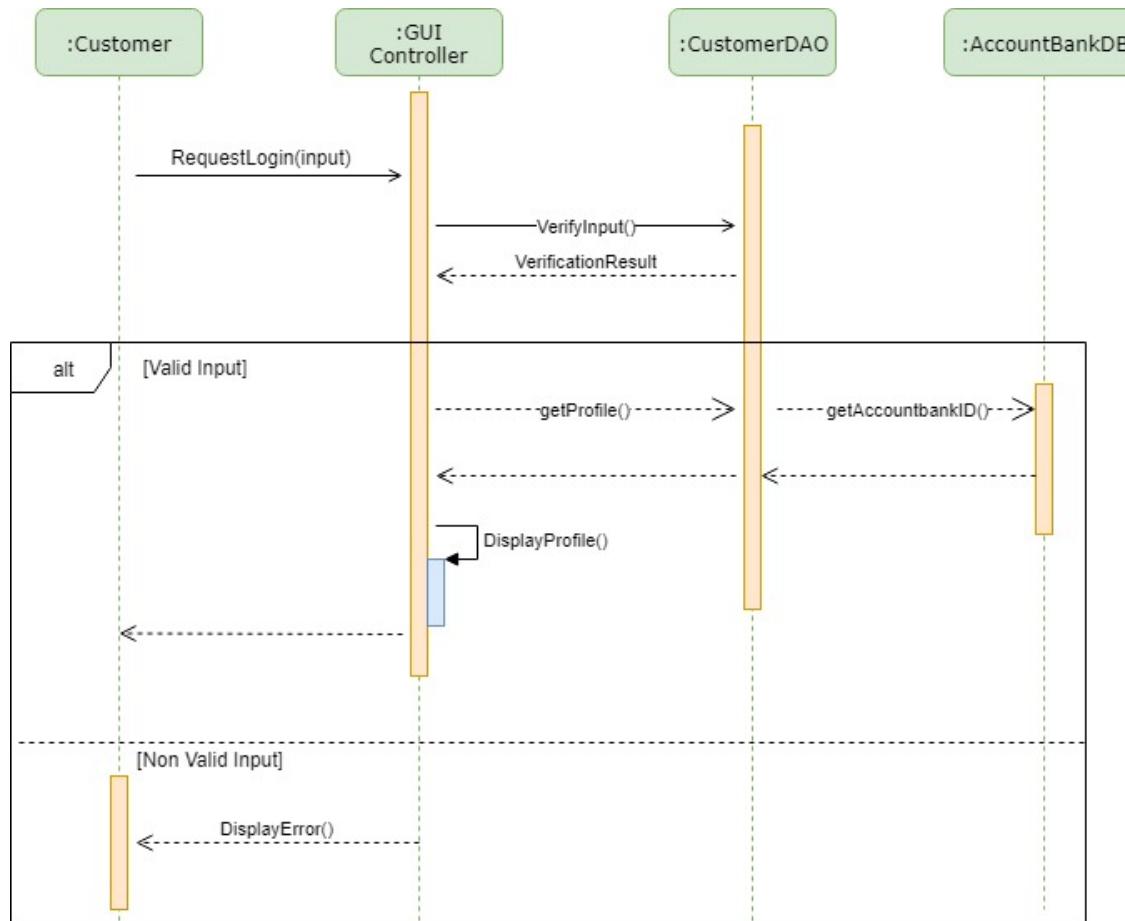
2. Logout



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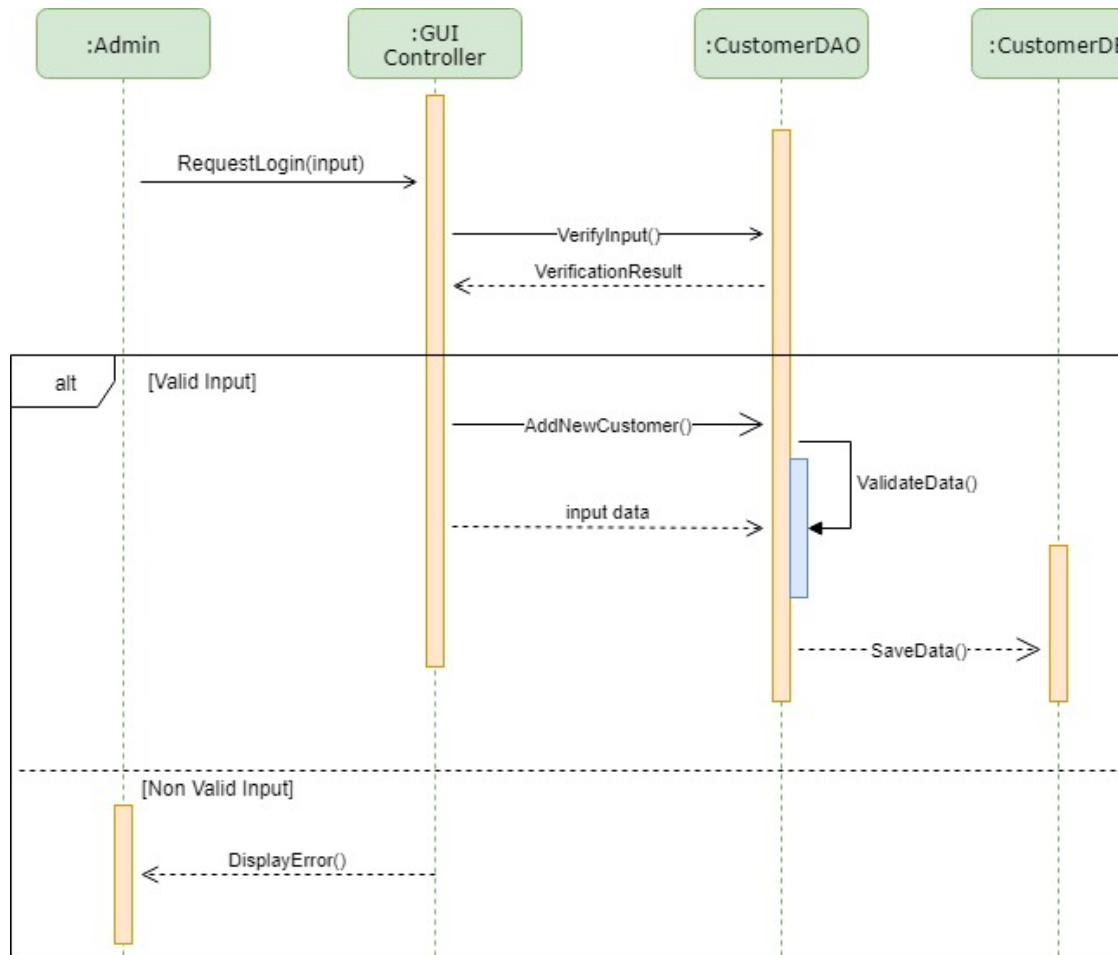
3. Show Customer' Profile



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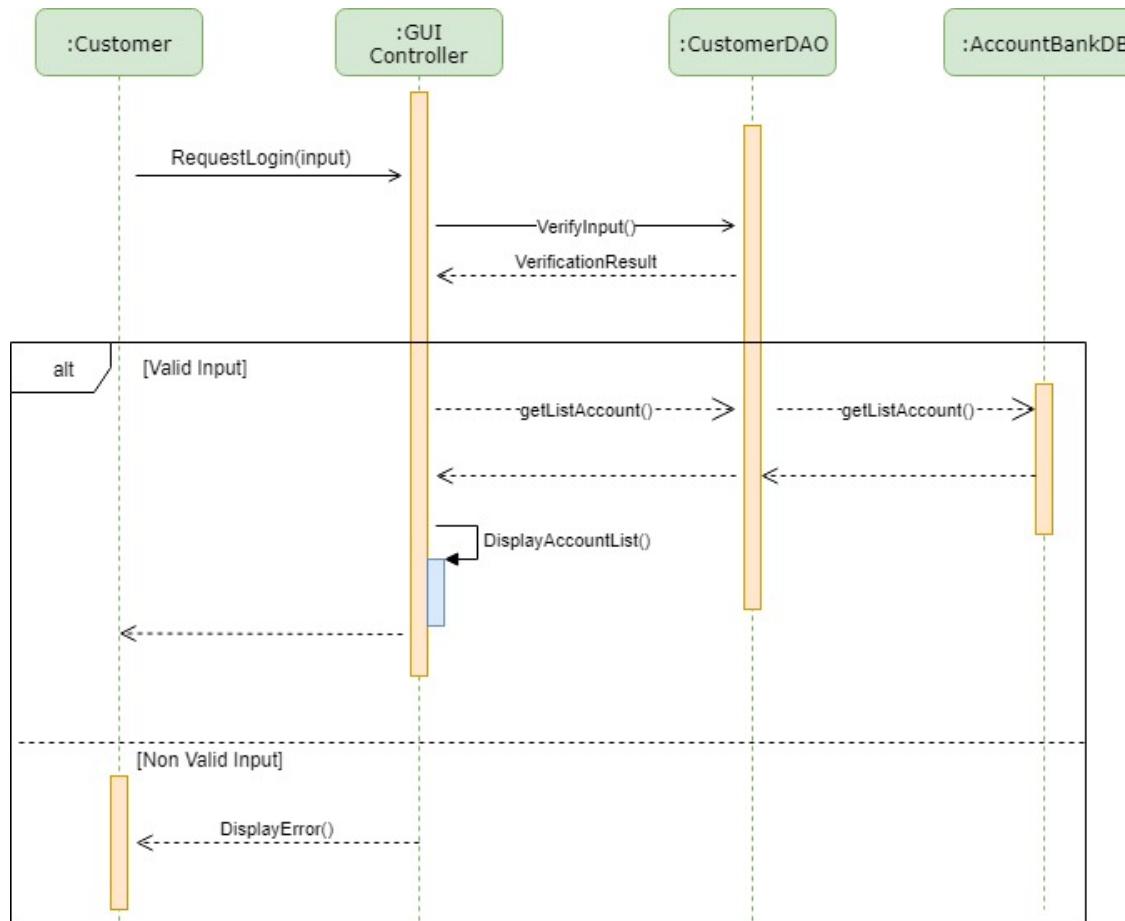
4. Add Customer



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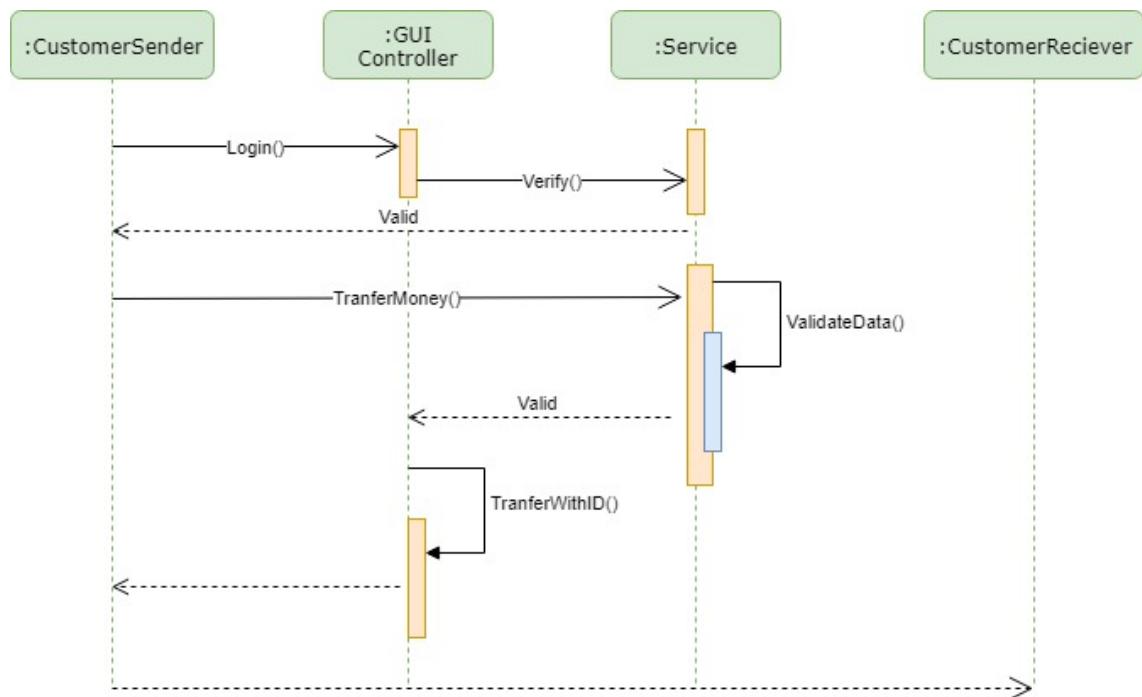
5. Show list account



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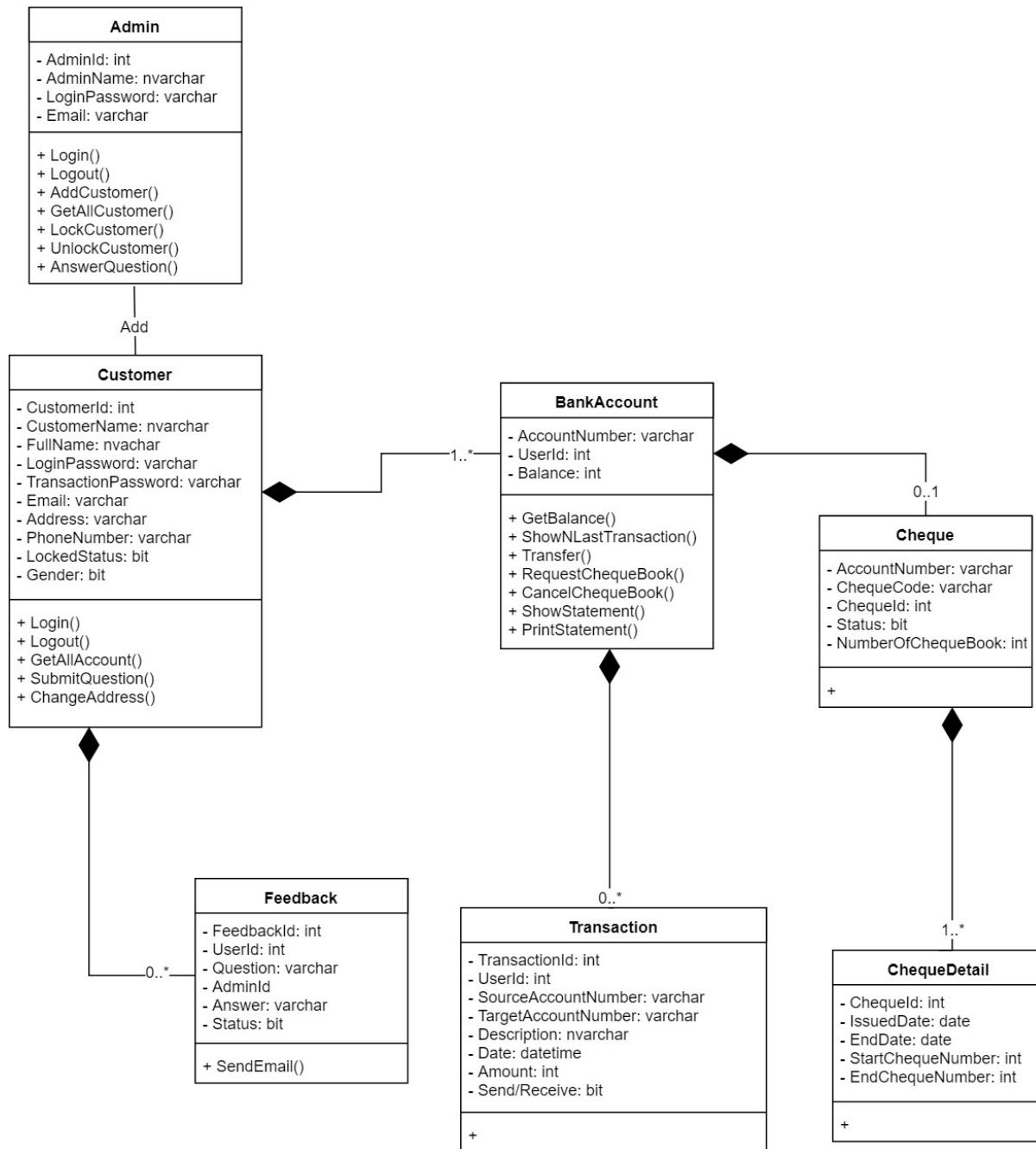
6. Funds Transaction



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VIII. Entity–Relationship Design (ERD)



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TASK SHEET REVIEW II

Project Ref.No: 5	Project Tittle: OnlineBanking	Date of Preparation of Activity Plan:			
No	Task	Actual Start Date	Actual Days	Team Mate Names	Status
01	Architecture & Design of Project	22,March,2019	5	Nguyen Thi Thuy Trang	Completed
02	Algorithms – Data Flow Chart			Nguyen Thi Thuy Trang	
03	Flow Diagram			Nguyen Dinh Thai	
04	Use Case Diagram			Nguyen Dinh Thai	
05	Class Diagram			Nguyen Hong Phuong	
06	Sequence Diagram			Dang Huu Nhan	
07	Entity–Relationship Design			Nguyen Hong Phuong	
08	Task Sheet			Dang Huu Nhan	

	Prepare By: Group 5	Approved By: Faculty
	Team Leader	
Date: March 27, 2019	Dang Huu Nhan	Dinh Vu Quoc Trung

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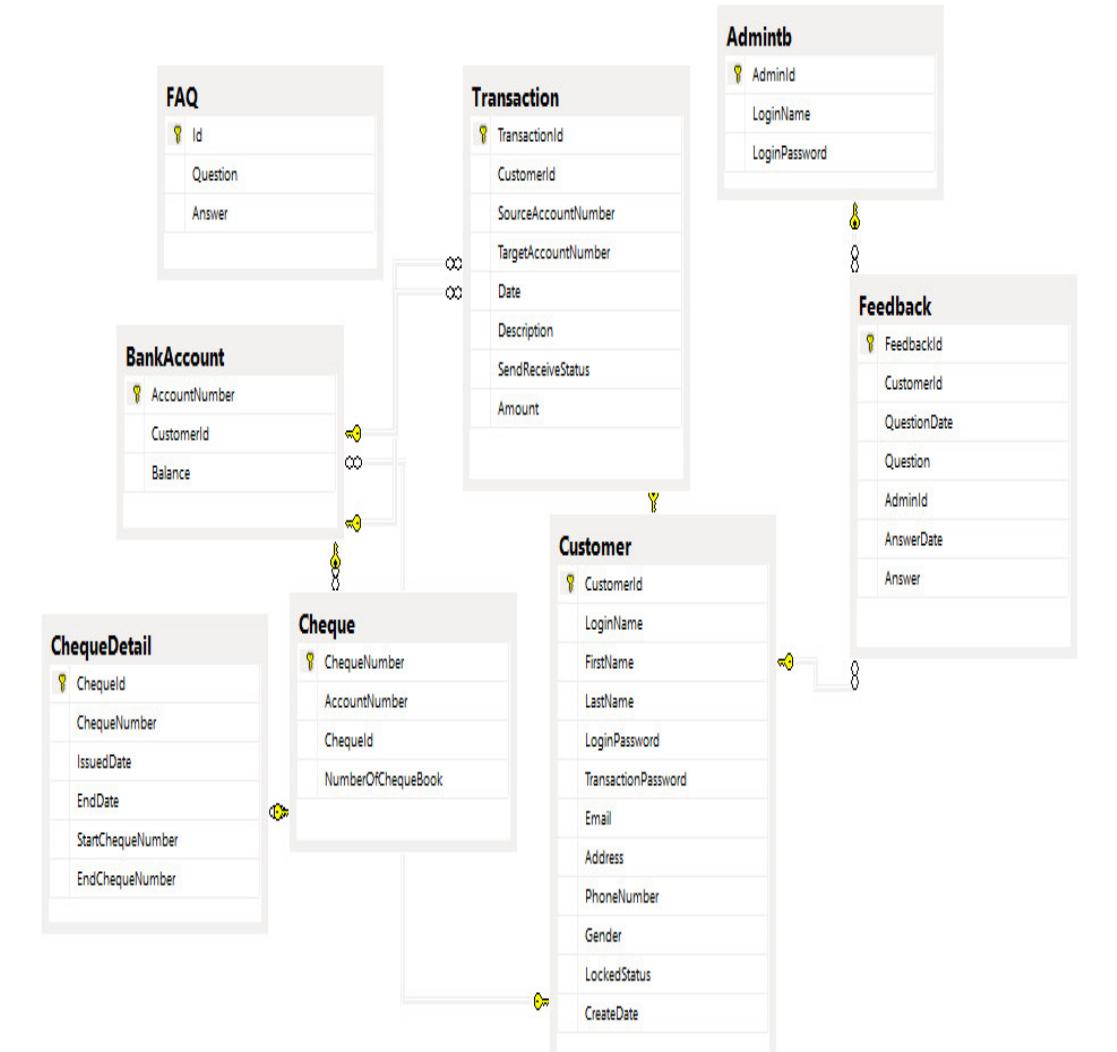
REVIEW 3

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I. DATABASE DESIGN

1. Database Design Diagram



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2. Database Structure

2.1 Table Admin

Field Name	Data Type	Null	Default	Key	Field-Ref	Description
Id	INT	No	IDENTITY(1,1)	PK		Admin Id
Name	VARCHAR(20)	No				Login name
LoginPassword	VARCHAR(50)	No				Login password

2.2 Table Customer

Field Name	Data Type	Null	Default	Key	Field-Ref	Description
Id	INT	No	IDENTITY(1,1)	PK		Customer Id
CreatedBy	INT	No		FK	Admins.Id	Admin Id
Name	VARCHAR(20)	No				Login name
FullName	VARCHAR(40)	No				Customer's full name
LoginPassword	VARCHAR(50)	No				Login password
TransactionPassword	VARCHAR(50)	No				Transaction password
Email	VARCHAR(20)	No				Customer's email
Address	VARCHAR(50)	No				Customer's address
PhoneNumber	VARCHAR(14)	No				Customer's phone

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					number
Gender	BIT	Yes			Customer's gender
LockedStatus	BIT	No			Customer's status (lock or unlock)

2.3 Table BankAccount

Field Name	Data Type	Null	Default	Key	Field-Ref	Description
AccountNumber	VARCHAR(30)	No		PK		Account number
CustomerId	INT	No		FK	Customers.Id	Id of customer this account belong to
Balance	INT	No				Balance of account

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2.4 Table Cheque

Field Name	Data Type	Null	Default	Key	Field-Ref	Description
ChequeNumber	VARCHAR(30)	No		PK		Cheque number
AccountNumber	VARCHAR(30)	No		FK	BankAccounts.AccountNumber	Bank account this cheque belongs to
NumberOfChequeBook	INT	No				Number of cheque books issue

2.5 Table ChequeDetail

Field Name	Data Type	Null	Default	Key	Field-Ref	Description
TransactionId	BIGINT	No	IDENTITY(1,1)	PK		Transaction Id
CustomerId	VARCHAR(30)	No		FK		Cheque number
IssuedDate	DATE	No				Day this cheque was issued
EndDate	DATE	Yes				Day this cheque book was cancel
StartChequeNumber	INT	No				Begin number of this cheque

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						book
EndChequeNumber	INT	No				End number of this cheque book

2.6 Table Transactions

Field Name	Data Type	Null	Default	Key	Field-Ref	Description
AccountNumber	VARCHAR(30)	No	IDENTITY(1,1)	PK		Account number
CustomerId	INT	No		FK	Customers.Id	Id of customer this transaction belongs to
SourceAccountNumber	VARCHAR(30)	No				Send from this account
TargetAccountNumber	VARCHAR(30)	No				Send to this account
Date	DATE	No				Time this transfer successful
Description	VARCHAR(90)	No				Content of this transaction
Amount	INT	No				Amount of money has been transfer

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2.7 Table FAQ

Field Name	Data Type	Null	Default	Key	Field-Ref	Description
id	INT	No	IDENTITY(1,1)	PK		Faqs Number
Question	TEXT	No		FK		Sample Questions
Answer	TEXT	No				Sample Answers

2.8 Table Feedback

Field Name	Data Type	Null	Default	Key	Field-Ref	Description
FeedbackID	INT	No	IDENTITY(1,1)	PK		Feedback number
CustomerId	INT	No		FK	Customers.Id	Id of customer this Feedback belongs to
QuestionDate	Datetime	No				Date sent question
Question	TEXT	No				Content of Question
AdminID	INT	No		FK	Feedback.id	
Answer	TEXT	No				Content of Answer

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II. GUI DESIGN

1. Login

The image shows a 'Login System' interface. At the top, the title 'Login System' is displayed. Below it are two input fields: 'UserName' (labeled 1) and 'Password' (labeled 2). At the bottom is a blue button labeled 'Login' (labeled 3).

No	Name	Type	Validation	Event	Description	Status
1	Username	Input	Not null		Customer' User name	Enable
2	Password	Input	Not null		Customer' password	Enable
3	Login	Button		Click	Login to customer' page	Enable

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2. Account Number List and Account Balance

Interface for Desktop

No	Name	Type	Validation	Event	Description	Status
1	txtAccountNumber	Hyper Link		Click	URL To Action Account Balance	Enable

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3. Last few of Transaction

Online Banking

Accounts

Customer Request

Money Transfer

Statement

Profile

Feedback

Dashboard / Tables

Transaction

Customer name: Tiger Dixon

Account number: ACC09435762

Select Account Number

Account number	Target Account Number	Transaction Date	Description	Send Status	Amount
ACC09435762	ACC09435762	03/09/08	Inter Bank Transfer	Sent	\$432
ACC09435762	ACC09435762	03/09/08	Third party transaction	Not Sent	\$432
ACC09435762	ACC09435762	03/09/08	Cheque Book	Sent	\$432
ACC09435762	ACC09435762	03/09/08	Inter Bank	Not	\$432

Interface for Desktop

No	Name	Type	Validation	Event	Description		Status
1	txtLoginName	Text	Not null		Show Login Name		Enable
2	slcAccountNumber	DropdownList	Not null		Select Account Number		Enable

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4. Request Cheque Book and List of Request Cheque Book

Interface for Desktop

No	Name	Type	Validation	Event	Description	Status
1	AccountNumber	Radion Button			Choose Account Number	Enable
2	txtIssuedDate	Textbox			Show Date of Issued Cheque Book	Enable
3	slcNumberCheque Leaves	DropdownList			Select Number of Cheque Leaves	Enable
4	btnSubmit	Submit Button		Click	Submit this form	Enable

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Request Cheque Book List						
Account Number	From Cheque Number	To Cheque Number	Date of Issue	Date of Expiry	Status	
ACC09435762	16120	16130	06/01/2019	06/12/2019	Active	Cancel 1
ACC09435762	26130	26140	10/03/2019	10/02/2020	Inactive	Cancel
ACC09435762	32900	32920	25/02/2019	25/01/2020	Active	Cancel

No	Name	Type	Validation	Event	Description	Status
1	Cancel	Hyper Link		Click	URL To Stop Cheque Payment	Enable

5. Stop Cheque Book and Notification

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Dashboard / Stop Cheque Payment

Customer name: Tiger Dixon

AccountNumber	1 ACC09435762
StartChequenumber	2 16120
EndChequenumber	3 16130
Status	4 <input checked="" type="radio"/> Inactive
5	Save

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Stop Cheque Payment

Account Number: ACC09435762

Start Cheque Number: 16120

End Cheque Number: 16130

Status: Inactive

No	Name	Type	Validation	Event	Description	Status
1	radAccountNumber	Textbox			Show AccountNumber	Disable
2	slcStartChequeNumber	Textbox			Show StartChequeNumber	Disable
3	slcEndChequeNumber	Textbox			Show EndChequeNumber	Textbox
4	radStatus	Radio Button			Choose Inactive	Enable
5	btnSave	Submit Button		Click	Submit this form	Enable

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6. Edit Profile

Interface for Desktop

Online Banking

Dashboard / Customer Profile

Profile

LoginName	1 Tiger1
LastName	2 Tiger
FirstName	3 Dixon
Gender	4 <input checked="" type="radio"/> Male <input type="radio"/> Female

Address Info

Street	5 345 Nguyen Cong Tru
Ward	6 5
District	7 Tan Binh
City	8 Ho Chi Minh ▾

Contact Info

Email	9 tigerdixon@gmail.com
PhoneNumber	10 098677432

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No	Name	Type	Validation	Event	Description	Status
1	txtLoginName	Textbox			Show Login name	Disable
2	txtFirstName	Textbox			Show First name	Disable
3	txtLastName	Textbox			Show Last name	Disable
4	radGender	Radion Button			Choose Gender	Enable
5	txtStreet	Textbox	Not null		Input Address number, Street	Enable
6	txtWard	Textbox	Not null		Input Ward	Enable
7	txtDistrict	Textbox	Not null		Input District	Enable
8	slcCity	Dropdown List	Not null		Choose City	Enable
9	txtEmail	Textbox	Not null Length<50		Input Email	Enable
10	txtPhoneNumber	Textbox	Not null Only number		Input Phone number	Enable
11	btnSave	Submit button			Submit this form	

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7. Fund transfer page

Interface for Desktop

Online Banking

Transfer information

Originator account
23453478656734

Beneficiary account
Beneficiary account number

Amount
Amount of money

Description
Transfer description

Continue 6

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Accounts

1 Money Transfer

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FOOTER CONTENT

LINKS

LINKS

Interface for Mobile

Online Banking

Transfer information

Originator account
23453478656734

Beneficiary account
Beneficiary account number

Amount
Amount of money

Description
Transfer description

Continue 6

Accounts

1 Money Transfer

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No	Name	Type	Validation	Event	Description	Status
1	MoneyTransfer	Hyperlink		Click	Go to Money Transfer page	Enable
2	slcSourceAccount	Dropdown list	Not null		Chose source account	Enable
3	txtDesAccount	Textbox	Not null		Enter destination account	Enable
4	txtAmount	Textbox	Not null, number		Amount transfer	Enable
5	txtDes	Textarea	Not null		Transfer description	Enable
6	btnContinue	Button		Click	Go to confirm page	Enable

8. Show statement

Interface for Desktop

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Accounts

Money Transfer

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Chose your statement

Account number: 23453478656734

Statement type: Monthly

Year: 2019

Month: Jan **III.**

Submit

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Interface for Mobile

Online Banking ≡

Accounts

Money Transfer

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Profile

Feedback

Chose your statement

Account number
23453478656734

Statement type
Annually

Year
2019

Month
Jan

Submit

No	Name	Type	Validation	Event	Description	Status
1	Statement	Hyperlink		Click	View statement	Enable
2	slcAccount	Dropdown list	Not null		Chose bank account	Enable
3	slcStatementType	Dropdown list	Not null		Chose statement type	Enable
4	slcYear	Dropdown list	Not null		Chose year	Enable
5	slcMonth	Dropdown list	Not null		Chose month	Enable
6	btnSubmit	Button		Click	View statement	Enable

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9. Print monthly statement

Interface for Desktop

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Monthly Statement

Year	2019	Account Summary		
Month	Jan	Opening Balance	2500	
Account number	1 ACC09435762	Payment in	1.50	
Account name	Warren Buffett	Payment out	2046	
Date	08/04/2019	Closing Balance	103	

Date	Reference	Transaction Description	Paid In	Paid Out	Balance
01/02/2019	GH-948976	Electric pay	150	2000	
01/02/2019	GH-948976	Wage	247	2247	
01/02/2019	GH-948976	Hoan pay back	533	2830	
01/02/2019	GH-948976	Gas pay	125	2705	
01/02/2019	GH-948976	Water pay	279	2443	

Print statement 2

No	Name	Type	Validation	Event	Description	Status
1	slcMonth	Dropdown list	Not null		Chose month	Enable
2	btnPrint	Button	Not null		Print this statement	Enable

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Interface for Desktop

Online Banking

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Accounts Money Transfer Statement (highlighted in red) Profile Feedback

Annual Statement

Year: 2019 (highlighted in red)

Account number	ACC09435762	Opening Balance	2500
Account name	Warren Buffett	Payment in	1.50
Date	08/04/2019	Payment out	2046
		Closing Balance	103

Month	Paid In	Paid Out	Balance
1/2019	150	2000	
2/2019	247	2247	
3/2019	533	2830	
4/2019	125	2705	
5/2019	279	2443	
6/2019	279	2443	
7/2019	279	2443	
8/2019	279	2443	

Print statement (highlighted in red)

No	Name	Type	Validation	Event	Description	Status
1	slcYear	Dropdown list	Not null		Chose year	Enable
2	btnPrint	Button	Not null		Print this statement	Enable

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10. Homepage Admin

The screenshot shows a user interface for managing customer accounts. On the left, a sidebar contains four links: 'Customers' (1), 'FAQs' (2), 'Messages' (3), and 'Admin Account' (4). The main content area is titled 'Create New Customer' (5). It includes a search bar with a placeholder 'Search for...' and a 'Search' button. Below this is a table titled 'Customer Account' (7) with four rows of data. The table columns are 'ID', 'Name', 'Gender', and 'Create Date'. The data in the table is as follows:

ID	Name	Gender	Create Date
1	Doe	Male	20-2-2019
2	Moe	Female	18-3-2019
3	Dooley	Male	20-4-2019
4	David	Male	26-4-2019

At the bottom of the main area, there is a navigation bar with buttons for '«', '1', '2', '3', and '»'.

No	Name	Type	Validation	Event	Description	Status
1	Customer	Hyperlink		Click	View Customer' Detail page	Enable
2	FAQs	Hyperlink		Click	View FAQs page	Enable
3	Message	Hyperlink		Click	View Message page	Enable
4	Admin Account	Hyperlink		Click	View list account admin	Enable
5	btnCreate	Button		Click	Go to add customer page	Enable
6	btnSearch	Button		Click	Fillter customer' account	Enable

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7	accountCus	table		Click	Go to detail customer account	Enable
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11. Add Customer

Customer' Information

First Name :	John	1
Last Name :	Son	2
Login Name:	son123	3
Login Password:	*****	4
Transaction Password :	*****	5
Phone :	0332654873	6
Email :	jonhs123@gmail.com	7
Address :	John Smith, 23 Acacia Avenue, Harrog	8
Gender :	<input checked="" type="radio"/> Male <input type="radio"/> Female	9
Create Customer		10

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No	Name	Type	Validation	Event	Description	Status
1	firstName	Input	Not null	Click	Input customer" information	Enable
2	lastName	Input	Not null	Click	Input customer" information	Enable
3	loginName	Input	Not null	Click	Input customer" information	Enable
4	loginpassword	Input	Not null	Click	Input customer" information	Enable
5	passtransaction	Input	Not null	Click	Input customer" information	Enable
6	phone	Input	Not null	Click	Input customer" information	Enable
7	email	Input	Not null	Click	Input customer" information	Enable
8	address	Input	Not null	Click	Input customer" information	Enable
9	genrder	Radio Button	Not null	Click	Select customer' gender	Enable
10	addCustomer	Buttom		Click	Add Customer	Enable

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TASK SHEET REVIEW III

Project Ref.No: 5	Project Tittle: OnlineBanking	Date of Preparation of Activity Plan:				
No	Task	Actual Start Date	Actual Days	Team Mate Names	Status	
01	Database Design Diagram & Database Structure	29,March,2019	10	Nguyen Hong Phuong	Completed	
02	Contact Us Page					
03	Funds Transfer					
04	View Statement					
05	Home page , FAQs page					
06	Add / Search Customer			Dang Huu Nhan		
07	Block/UnBlock Customer					
08	Manager FAQs Content					
09	Reply Customer' Question					
10	About Us page					

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11	Login / Logout System			Nguyen Dinh Thai	Completed
12	Show / Edit Customer' profile			Nguyen Dinh Thai	Completed
13	Sent Customer' Question			Nguyen Dinh Thai	Completed
14	Terms & Condition page / Privacy & Security page				
15	Show List Account				
16	Request/ Stop Cheque Book			Nguyen Thi Thuy Trang	Completed
17	Show n Transaction				

	Prepare By: Group 5	Approved By: Faculty
	Team Leader	
Date: April 8, 2019	Dang Huu Nhan	Dinh Vu Quoc Trung

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