

# Software Requirements Specifications

Guru99 Banking Website (GBW)

SRS Reference No. : SRS-180816-01

Version No. : 0.1

**Release Date** : 8/20/2018

Prepared By	Date	
Arnel L. Bagabagon Jr. Business Analyst/QA Engineer	8/16/2018	

Approved By	Date
Sam Patrick Lead QA Engineer	8/16/2018

# Co - Authors

Authored By	Affected System	Signature	Date
N/A			

# **Revision Management**

Revision No	Date	Changed By	Change Details
0.1	8/16/2018	Arnel L. Bagabagon Jr.	Initial SRS Draft

# **Approvals**

Name	Role / Position	Signature	Date	Remarks
Krishna Sungta	Project Sponsor		8/16/2018	
Nick Price	Lead Software Engineer		8/16/2018	
Sam Patrick	Lead QA Engineer		8/16/2018	

# **Table of Contents**

1	I	INTRODUCTION	5
	1.1	Project Background	5
	1.2	Project Background Objectives	5
	1.3	SCOPE	5
	1.4	Assumptions	5
	1.5	GLOSSARY	6
	1.6	References	6
	1.7	INTENDED AUDIENCE	6
2	ı	DETAILED REQUIREMENTS	7
	2.1	Functional Requirements	7
	2.2	Non - Functional Requirements	19
	2.3	INTERFACE REQUIREMENTS	
	2.4	REPORT REQUIREMENTS	19
	2.5	OTHER REQUIREMENTS	21
	2.6	Use Cases	21
3	1	APPENDICES	35
	3.1	PEER REVIEW ISSUE LOGS	35

#### 1 Introduction

#### 1.1 Project Background

Currently, there is no available banking system for use of the Guru99 Banking Division personnel and their customers. Process is manual which leads to several human errors in customer records and their respective transactions. This project aims to develop an automated banking system with core banking functionalities and customer record-keeping capabilities so that such manual errors will be eliminated. Over a period of time, new functionalities will be provided to the system.

#### 1.2 Objectives

Develop and implement an automated banking system for Guru99 Banking Division personnel and their customers so that errors resulting from manual processes will be eliminated.

#### 1.3 Scope

#### 1.3.1 Inclusions

- As mentioned earlier, the system will include the core banking functionalities and features namely the following:
  - Balance Inquiry
  - Deposit
  - Withdrawal
  - Fund Transfer
- Module for recording Customer information and their respective Accounts.
- Usable reports where users can inquire information about their transactions.
- Features to allow access of the system to authorized users only.
- The system is only expected to run properly at Google Chrome Web Browser. Compatibility with other Web Browsers such as Mozilla Firefox, Microsoft Edge, Opera, etc. will not be checked during the development of this project.

#### 1.3.2 Exclusions

- Compatibility of the system with Web Browsers such as Mozilla Firefox, Microsoft Edge, Opera, etc.
- Non-functional capabilities of the system such as Performance, Endurance, Stress, etc.

#### 1.4 Assumptions

- There will be a User Maintenance module where users of the system will be registered. At first it was thought that the New Customer module will have the functionality to add users (for Customer Role at least) to the system but based on specified requirements for that module, it was not the case. Also, there were no requirements specified on how users with Manager Roles can be registered.
- All modules contain a <Reset> Button but there are no specifications on what will happen if user would click on the button. It was then assumed that its functionality is to just clear values of the fields if there are any values entered or selected at them.
- User with Manager Role will only be able to perform transactions or produce reports of those Customers/Accounts associated with them. Association is achieved by having the User with the Manager Role adding the Customer to database records which in turn associates the user as well with all accounts added for the Customer.
- User with Customer Role will only be able to perform transactions or produce reports of those Accounts added to them.
- The requirement, "E-Mail is invalid!" for the New Customer module is assumed to be a validation of the E-Mail entered for the customer being added to the system. The validation will include checking the customer database records if the E-Mail is already added to an existing customer. The validation will be different with the Update Customer module: it will not include the current customer record being updated from the records to be checked.

- Transaction records of deleted Customers and Accounts will be left orphaned instead of being deleted once Customer/Account were deleted via Delete Customer and Delete Account modules respectively.
- The "Initial Deposit" Field will not be editable at the Update Account module. It is only practical to include the field at the New Account module only.
- Customized Statement date filters are optional. If the "From Date" is not set, filter will start at the very first transaction performed by the account. If the "To Date" is not set, filter will end at the very last transaction performed by the account.

#### 1.5 Glossary

Terms Used	Definition
Manager	This refers to the internal end-users of the Guru99 Banking Website. This does not refer to a Managerial position from the Bank Division and only refers to a role that "manages" the system.
Customer	This refers to the external end-users or customers of the Guru99 Banking Website encoded by the managers from the Bank Division.
Mini Statement	Report that will include the last five (5) transactions performed by a bank account.
Payer's Account Number	Source account number for the Fund Transfer Transaction module where the amount to be transferred will be deducted.
Payee's Account Number	Destination account number for the Fund Transfer Transaction module where the amount to be transferred will be added.

#### 1.6 References

Document Ref. No.	Document Name
N/A	

#### 1.7 Intended Audience

	Group / Division
Bank Division	

6

# 2 Detailed Requirements

# 2.1 Functional Requirements

Requirement ID	RQ-01	
Title	Create a Login Module	
User Story	As a system owner/admin/bank personnel/customer, I need my banking website to have a Login Screen so that only authorized users can have access to the website.	
Priority	High	
Severity	Significant	
User/s	Bank Division/Customers	
Front-end	The User Interface should include the following:	
Requirement/s	# Name Type	
	1 User ID Text Box	
	2 Password Text Box	
	3 Login Button	
	4 Reset Button	
Functional Requirement/s	<ol> <li>If User ID is not found from records, a "User ID not found!" error message should be displayed and user will not be given access to the website.</li> <li>If Password entered is not correct, an "Incorrect Password" error message should be displayed and user will not be given access to the website,</li> <li>If either or both "User ID" and "Password" fields were left blank after clicking <login> Button, a "User ID/Password field was left blank!" error message should be displayed. These fields are mandatory.</login></li> <li>If no validation issues are found, user will be given access to the website and depending on the User Role, be presented with modules the user has predefined access to.</li> <li>Clicking the <reset> Button would clear all fields from the Login Screen.</reset></li> </ol>	
Reference/s	N/A	

Requirement ID	RQ-02	
Title	Create a New User Module	
User Story	As a system owner/admin/bank personnel, I need to have a module where I could provide user access to the website so that I could control who should be given access to the website content.	
Priority	High	
Severity	Severe	
User/s	Bank Division	
Front-end	The User Interface should include the following:	
Requirement/s	# Name Type	
	1 User ID Text Box	
	2 Password Text Box	
	3 Confirm Password Text Box	
	4 Role Drop-down List	
	5 Submit Button	
	6 Reset Button	

Requirement ID	RQ-02
Functional Requirement/s	<ol> <li>This module is accessible only to users with "Manager" Role.</li> <li>If User ID entered already exists from user records, a "User ID already exists!" error message should be displayed.</li> <li>If Passwords entered on both "Password" and "Confirm Password" Fields are not the same, a "Password does not match!" error message should be displayed and user will not be saved.</li> <li>If Password entered does not contain at least one (1) numeric and one (1) special character, an error message specifying this rule should be displayed.</li> <li>Characters entered on both "Password" and "Confirm Password" Fields should be hidden (e. g. Hidden as an asterisk (*) character).</li> <li>If all or one of the fields is left blank, a "<field name=""> field was left blank!" error message should be displayed. These fields are mandatory.</field></li> <li>The "Role" Drop-down List would have the following options:         <ul> <li>a. Manager</li> <li>b. Customer</li> </ul> </li> <li>If no roles are selected, a "No roles selected!" error message should be displayed.</li> <li>If no validation issues are found, user will be saved from the records.</li> <li>Clicking the <reset> Button would clear all fields from the New User Module.</reset></li> </ol>
Reference/s	N/A

Requirement ID	RQ-03		
Title	Create a Delete User Module		
User Story	As a system owner/admin/bank personnel, I need to have a module where I could remove user access to the website so that I could control who should be given access to the website content.		
Priority	High		
Severity	Severe		
User/s	Bank Division		
Front-end Requirement/s	The User Interface should include the following:  # Name Type 1 User ID Text Box 2 Submit Button 3 Reset Button		
Functional Requirement/s	<ol> <li>This module is accessible only to users with "Manager" Role.</li> <li>If "User ID" Field is left blank, a "User ID field was left blank" error message should be displayed. This field is mandatory.</li> <li>If no record of the user was found based on the User ID, a "User not found!" error message should be displayed.</li> <li>If no validation issues are found, user will be deleted from the records.</li> <li>Clicking the <reset> Button would clear all fields from the User Maintenance Module.</reset></li> </ol>		
Reference/s	N/A		

Requirement ID	RQ-04		
Title	Create a Change Password Module		
User Story	As a system owner/admin/bank personnel/customer, I need a feature where we can change passwords of users registered on the system as an added security feature for the website.		
Priority	High		

Requirement ID	RQ-04			
Severity	Severe			
User/s	Bank Division/Customers			
Front-end	The User Interface should include the following:			
Requirement/s	# Name Type			
	1 Old Password Text Box			
	2 New Password Text Box			
	3 Confirm Password Text Box			
	4 Submit Button			
	5 Reset Button			
Functional Requirement/s				
Reference/s	N/A			

Requirement ID	RQ-05		
Title	Create a New Customer Module		
User Story	As a bank personnel, I need to have a feature in the website where I could add new customers so I could record customer information easily and conveniently to the system.		
Priority	High		
Severity	Significant		
User/s	Bank Division		

#### **RQ-05** Requirement ID Front-end The User Interface should include the following: Requirement/s Name Type 1 **Customer Name** Text Box 2 **Text Box** Gender 3 Date of Birth Date 4 Address **Text Box** 5 City **Text Box** 6 State **Text Box** 7 PIN **Text Box** 8 Telephone Number **Text Box** 9 E-Mail Text Box 10 Submit **Button** 11 Reset **Button Functional** 1. This module is accessible only to a "Manager" User Role. Requirement/s 2. If the following fields are left blank, a "<Field Name> field was left blank!" error message should be displayed. These fields are mandatory and customer record will not be saved. a. Customer Name b. Address c. City d. State e. PIN f. Telephone Number g. E-Mail 3. If alphabetical characters are entered at the following fields, an error message should be displayed specifying that such characters are not allowed and customer record will not be saved. a. PIN b. Telephone Number 4. If numeric characters are entered at the following fields, an error message should be displayed specifying that such characters are not allowed and customer record will not be saved. a. Customer Name b. City 5. If special characters are entered at the following fields, an error message should be displayed specifying that such characters are not allowed and customer record will not be saved. a. Customer Name b. Address c. City d. State e. PIN f. Telephone Number 6. If first character of the following fields is a space, a "First Character must not be a space!" error message should be displayed and customer record will not be saved. a. Customer Name b. Address c. City d. State e. PIN f. Telephone Number

g. E-Mail

Requirement ID	RQ-05			
	7. If "PIN" Field does not have 6 Digits, a "PIN must have 6 Digits!" error message should be displayed and customer record will not be saved.			
	8. If E-Mail entered already exists at the customer records, an "E-Mail already exists from records!" error message should be displayed.			
	9. Users having Manager Role automatically associate themselves to the new			
	customers they added and their respective accounts. They will be able to perform the following transactions to the customers they are associated with:			
	a. Balance Inquiry			
	b. Deposit			
	c. Withdrawal			
	d. Fund Transfer			
	e. Change Password			
	f. Mini Statement			
	g. Customized Statement			
	10.If no validation issues are found, system will generate a Customer ID for the customer and save all of the customer information entered.			
	11. Clicking the <reset> Button would clear all fields from the New Customer Module.</reset>			
Reference/s	N/A			

Requirement ID		RQ-06			
Title	Crea	Create an Update Customer Module			
User Story	custo	As a bank personnel, I need to have a feature in the website where I could update customer information so I could correct or modify customer information easily and conveniently from the system.			
Priority	High				
Severity	Signi	ficant			
User/s	Bank	Division			
Front-end Requirement/s	Sear	The module has two (2) User Interfaces: Search Mode & Edit Mode.  Search Mode			
		Name	Туре		
		Customer ID	Text B		
		Submit	Buttor		
	3	Reset	Button		
	Edit	Mode			
	#	Name		Туре	
	1	Customer Name		Text Box	
	2	Gender		Text Box	
	3	Date of Birth		Date	
	4	Address		Text Box	
	5	City		Text Box	
	6	State		Text Box	
	7	PIN		Text Box	
	8	Telephone Number		Text Box	
	9	E-Mail		Text Box	
	10	Submit		Button	
	11	Reset		Button	
Functional Requirement/s		<ol> <li>This module is accessible only to a "Manager" User Role.</li> <li>The following are the validations in Search Mode:         <ul> <li>a. If "Customer ID" is left blank, a "Customer ID field was left blank!" error message should be displayed. This field is mandatory and customer search will not be processed.</li> </ul> </li> </ol>			

Requirement ID	RQ-06
	<ul> <li>b. If alphabetical and special characters are entered at the "Customer ID" field, an error message should be displayed specifying that such characters are not allowed and customer search will not be processed.</li> <li>c. If first character of the "Customer ID" Field is a space, a "First Character must not be a space!" error message should be displayed and customer search will not be processed.</li> <li>d. If no validation issues are found, system will search for the customer based on the Customer ID entered.</li> <li>e. If no record of the customer was found based on the Customer ID, a "Customer not found!" error message should be displayed.</li> <li>3. The following are the validations in Edit Mode: <ul> <li>a. The validations in Edit Mode for mandatory fields, allowed characters, first character as a space and PIN Digits are the same with RQ-05.</li> <li>b. There will be a difference in E-Mail validation. If E-Mail was not changed and if E-Mail entered does not exist from customer records, the "E-Mail already exists from records!" error message will not be displayed.</li> <li>c. If no validation issues are found, system will save the customer information changes.</li> </ul> </li> <li>4. If the user tries to update information of a Customer that is not associated with them, a "Customer not associated with the User!" error message should be displayed. Users can only update information on customers that are associated with them (See RQ-05).</li> <li>5. Clicking the <reset> Button would clear all fields from the Update Customer Module on either Search or Edit Mode.</reset></li> </ul>
Reference/s	N/A

Requirement ID	RQ-07		
Title	Create a Delete Customer Module		
User Story	As a bank personnel, I need to have a feature in the website where I could delete customer record/s so I could remove customers easily and conveniently from the system that no longer have or have closed down their accounts.		
Priority	High		
Severity	Significant		
User/s	Bank Division		
Front-end	The User Interface should include the following:		
Requirement/s	# Name Type		
	1 Customer ID Text Box		
	2 Submit Button		
	3 Reset Button		

Requirement ID	RQ-07
Functional Requirement/s	<ol> <li>This module is accessible only to a "Manager" User Role.</li> <li>If "Customer ID" is left blank, a "Customer ID field was left blank!" error message should be displayed. This field is mandatory.</li> <li>If alphabetical and special characters are entered at the "Customer ID" field, an error message should be displayed specifying that such characters are not allowed.</li> <li>If first character of the "Customer ID" Field is a space, a "First Character must not be a space!" error message should be displayed.</li> <li>If no record of the customer was found based on the Customer ID, a "Customer not found!" error message should be displayed.</li> <li>If accounts are still associated with the customer, an "Accounts are still associated with the Customer!" error message should be displayed and customer will not be deleted.</li> <li>If no validation issues are found, system will delete the customer record based on the Customer ID entered.</li> <li>If the user tries to delete a customer record that is not associated with them, a "Customer not associated with the User!" error message should be displayed and customer will not be deleted. Users can only delete customer records that are associated with them (See RQ-05).</li> <li>Clicking the <reset> Button would clear all fields from the Delete Customer Module.</reset></li> </ol>
Reference/s	N/A

Requirement ID	RQ-08			
Title	Create a New Account Module			
User Story	As a bank personnel, I need to have a feature where new bank accounts can be added for a customer so I would do such task easily and conveniently.			
Priority	High			
Severity	Significant			
User/s	Bank Division			
Front-end	The User Interface should include the following:			
Requirement/s	# Name Type			
	1 Customer ID Text Box			
	2 Account Type Drop-down List			
	3 Initial Deposit   Text Box			
	4 Submit Button			
	5 Reset Button			
Functional Requirement/s	<ol> <li>This module is accessible only to a "Manager" User Role.</li> <li>The "Initial Deposit" Drop-down List will have the following options:         <ul> <li>a. Savings</li> <li>b. Current</li> </ul> </li> <li>If the following fields are left blank, a "<field name=""> field was left blank!" error message should be displayed. These fields are mandatory and account record will not be saved.         <ul> <li>a. Customer ID</li> <li>b. Account Type</li> </ul> </field></li> <li>If alphabetical and special characters are entered at the "Customer ID" field, an error message should be displayed specifying that such characters are not allowed and account record will not be saved.</li> <li>If first character of the "Customer ID" Field is a space, a "First Character must not be a space!" error message should be displayed and account record will not be saved.</li> </ol>			

Requirement ID	RQ-08			
	<ol> <li>If initial deposit amount entered at "Initial Deposit" Field is less than 500, an "Initial Deposit is less than 500!" error message should be displayed and account record will not be saved.</li> <li>If no record of the customer was found based on the Customer ID, a "Customer not found!" error message should be displayed.</li> <li>Users having Manager Role automatically associate themselves to the new customers they added and their respective accounts. They will be able to perform the following transactions to the customers they are associated with:         <ul> <li>a. Balance Inquiry</li> <li>b. Deposit</li> <li>c. Withdrawal</li> <li>d. Fund Transfer</li> <li>e. Change Password</li> <li>f. Mini Statement</li> <li>g. Customized Statement</li> </ul> </li> <li>If no validation issues are found, system will generate an Account Number for the customer's account and save all of the account information entered. The initial deposit amount will be saved as a Deposit Transaction record (See RQ-12) for the New Account.</li> <li>Clicking the <reset> Button would clear all fields from the New Account Module.</reset></li> </ol>			
Reference/s	N/A			

Requirement ID	RQ-09					
Title	Create an Update Ac	Create an Update Account Module				
User Story	As a bank personnel, I need to have a feature where I could modify existing bank					
	account/s so I would be able to correct and update account information of customers.					
Priority	High					
Severity	Significant					
User/s	Bank Division					
Front-end Requirement/s	The module has two Search Mode	(2) User Interfaces: Search Mode & Edit Mode.				
	# Name	Туре				
	1 Account Number					
	2 Submit	Button				
	3 Reset	Button				
	Edit Mode					
	# Name	Туре				
	1 Customer ID	Text Box				
	2 Account Type	Drop-down List				
	3 Submit	Button				
	4 Reset	Button				
Functional Requirement/s	<ol> <li>This module is accessible only to a "Manager" User Role.</li> <li>The following are the validations in Search Mode:</li> <li>If "Account Number" is left blank, an "Account Number field was left blank!" error message should be displayed. This field is mandatory and account search will not be processed.</li> <li>If alphabetical and special characters are entered at the "Account Number" field, an error message should be displayed specifying that such characters are not allowed and account search will not be processed.</li> </ol>					

Requirement ID	RQ-09		
Requirement ID	<ol> <li>If no validation issues are found, system will search for the account based on the Account Number entered.</li> <li>If no record of the account was found based on the Account Number, an "Account not found!" error message should be displayed.</li> <li>The following are the validations in Edit Mode:</li> <li>The validations in Edit Mode for mandatory fields, allowed characters, first character as a space and checking of the customer record are the same with RQ-08.</li> <li>If no validation issues are found, system will save the customer information changes.</li> <li>If the user tries to update information of an Account that is not associated with them, an "Account not associated with the User!" error message should be displayed. Users can only update information on accounts that are associated with them (See RQ-05 &amp; RQ-08).</li> <li>Clicking the <reset> Button would clear all fields from the Update Account Module on either Search or Edit Mode.</reset></li> </ol>		
Reference/s	N/A		

Requirement ID	RQ-10		
Title	Create an Delete Account Module		
User Story	As a bank personnel, I need to have a feature that deletes a customer's account so I would be able to remove account/s that was closed by customers.		
Priority	High		
Severity	Significant		
User/s	Bank Division		
Front-end	The User Interface should include the following:		
Requirement/s	# Name Type 1 Account Number Text Box		
	2 Submit Button		
	3 Reset Button		
Functional Requirement/s	<ol> <li>Reset Button</li> <li>This module is accessible only to a "Manager" User Role.</li> <li>If "Account Number" is left blank, an "Account Number field was left blank!" error message should be displayed. This field is mandatory.</li> <li>If alphabetical and special characters are entered at the "Account Number" field, an error message should be displayed specifying that such characters are not allowed.</li> <li>If no validation issues are found, system will delete the account based on the Account Number entered.</li> <li>If no record of the account was found based on the Account Number, an "Account not found!" error message should be displayed.</li> <li>If the user tries to delete information of an Account that is not associated with them, an "Account not associated with the User!" error message should be displayed and account record will not be deleted. Users can only update information on accounts that are associated with them (See RQ-05 &amp; RQ-08).</li> <li>Clicking the <reset> Button would clear all fields from the Delete Account Module.</reset></li> </ol>		
Reference/s	N/A		

Requirement ID	RQ-11		
Title	Create a Balance Inquiry Module		
User Story	As a bank personnel/customer, I need to have a balance inquiry feature at the website so I would be able to conveniently inquire the remaining balance of my bank account/s online.		
Priority	High		
Severity	Significant		
User/s	Bank Division/Customer	r	
Front-end	The User Interface shou	ld include t	he following:
Requirement/s	# Name	Туре	
	1 Account Number	Text Box	
	2 Submit	Button	
	3 Reset	Button	
Requirement/s	not found!" error me 3. If "Account Number" error message should 4. If alphabetical and span error message should an error message should 5. If user tries to perfor "Account not associated can only perform the (See RQ-05 & RQ-08) 6. If user has no account user!" error message linquiry module. 7. If no validation issue be displayed on the second country and the second country module.	essage shour field is left do be display becial character with the transaction of the second because as are found screen.	not found from the records, an "Account Number ald be displayed. It blank, an "Account Number field was left blank!" It blank, an "Account Number field was left blank!" It blank, an "Account Number field was left blank!" It blank, an "Account Number" field, blayed specifying that such characters are not seaction to an account not associated with them, an ane User!" error message should be displayed. Users on on accounts that are associated with them seed with them, a "No Accounts associated with the displayed to the screen upon opening Balance It, remaining balance of the Account specified will build clear all fields from the Balance Inquiry
Reference/s	N/A		

Requirement ID	RQ-12		
Title	Create a Deposit Module		
User Story	As a bank personnel, I need to have the website to have a Deposit Module so I would be able to perform Deposit Transactions to customer account/s.		
Priority	High		
Severity	Significant		
User/s	Bank Division		
Front-end Reguirement/s	The User Interface should include the following:		
Requirement/s	# Name Type		
	1 Account Number Text Box		
	2 Amount Text Box		
	3 Description Text Box		
	4 Submit Button		
	5 Reset Button		
Functional	1. This module is accessible only to a "Manager" User Role.		

Requirement ID	RQ-12
Requirement/s	<ol> <li>If Account Number entered is not found from the records, an "Account Number not found!" error message should be displayed.</li> <li>If the following fields are left blank, a "<field name=""> field was left blank!" error message should be displayed. These fields are mandatory.         <ol> <li>Account Number</li> <li>Amount</li> <li>Description</li> </ol> </field></li> <li>If alphabetical and special characters are entered at the following fields, an error message should be displayed specifying that such characters are not allowed.</li></ol>
Reference/s	N/A

Requirement ID	RQ-13		
Title	Create a Withdraw Module		
User Story	As a bank personnel, I need to have the website to have a Withdraw Module so I would be able to perform Withdraw Transactions to customer account/s.		
Priority	High		
Severity	Significant		
User/s	Bank Division		
Front-end	The User Interface should include the following:		
Requirement/s	# Name Type		
	1 Account Number Text Box		
	2 Amount Text Box		
	3 Description Text Box		
	4 Submit Button		
	5 Reset Button		
Functional Requirement/s	<ol> <li>This module is accessible only to a "Manager" User Role.</li> <li>If Account Number entered is not found from the records, an "Account Number not found!" error message should be displayed.</li> <li>If the following fields are left blank, a "<field name=""> field was left blank!" error message should be displayed. These fields are mandatory.         <ul> <li>a. Account Number</li> <li>b. Amount</li> <li>c. Description</li> </ul> </field></li> <li>If alphabetical and special characters are entered at the following fields, an error message should be displayed specifying that such characters are not allowed.         <ul> <li>a. Account Number</li> <li>b. Amount</li> </ul> </li> <li>If Account has insufficient balance to perform the transaction, an "Insufficient Funds" error message should be displayed and transaction should not be</li> </ol>		

Requirement ID	RQ-13
	<ul> <li>processed.</li> <li>6. If user tries to perform the transaction to an account not associated with them, an "Account not associated with the User!" error message should be displayed. Users can only perform the transaction on accounts that are associated with them (See RQ-05 &amp; RQ-08).</li> <li>7. If user has no accounts associated with them, a "No Accounts associated with the user!" error message should be displayed to the screen upon opening Deposit module.</li> <li>8. If no validation issues are found, amount specified will be deposit/added to the Account specified.</li> <li>9. Clicking the <reset> Button would clear all fields from the Withdraw Module.</reset></li> </ul>
Reference/s	N/A

Requirement ID	RQ-14			
Title	Create a Fund Transfer Module			
User Story	As a bank personnel/customer, I need to have a fund transfer feature at the website so I would be able to conveniently transfer funds from my bank account/s to another online.			
Priority	Hig			
Severity	Sign	nificant		
User/s	Bar	k Division/Customer		
Front-end Requirement/s	The	User Interface should inclu	de the follo	wing:
Requirement/s	#	Name	Туре	
	1	Payer's Account Number	Text Box	
	2	Payee's Account Number	Text Box	
	3	Amount	Text Box	
	4	Description	Text Box	
	5	Submit	Button	
	6	Reset	Button	
Functional Requirement/s				

Requirement ID	RQ-14	
	<ul> <li>for the transaction, an "Account not associated with the User" error message should be displayed. Users can only perform the transaction on accounts that are associated with them (See RQ-05 &amp; RQ-08).</li> <li>8. If user has no accounts associated with them, a "No Accounts associated with the user!" error message should be displayed to the screen upon opening Fund Transfer module.</li> <li>9. If no validation issues are found, system will deduct the Amount specified from the Source Account and add the Amount to the Destination Account.</li> <li>10.Clicking the <reset> Button would clear all fields from the Fund Transfer Transaction Module.</reset></li> </ul>	
Reference/s	N/A	

# 2.2 Non - functional Requirements

Only functionality of the system is required to be established at this point. No non-functional requirements such as concurrent users, specific response times, etc. are prioritized to be verified during this phase of the project.

### 2.3 Interface Requirements

Guru99 Banking Website is a standalone system. No interface requirements are needed.

### 2.4 Report Requirements

Requirement ID	RQ-15		
Title	Create a Report Module Where Users Can View a Mini Statement of their Bank Transactions		
User Story	As bank personnel/customer, I need to have a report that presents recent transactions of an account so I could quickly inquire about the latest transactions performed on my account.		
Priority	Medium		
Severity	Moderate		
User/s	Bank Division/Customers		
Front-end Requirement/s	The User Interface should include the following:		
rtoquii oment, s	# Name Type		
	1 Account Number Text Box		
	2 Submit Button		
	3 Reset Button		
Report Detail/s	<ol> <li>Reset Button</li> <li>This module is accessible to all User Roles.</li> <li>If Account Number entered is not found from the records, an "Account Number not found!" error message should be displayed.</li> <li>If "Account Number" field is left blank, an "Account Number field was left blank!" error message should be displayed. This field is mandatory.</li> <li>If alphabetical and special characters are entered at the "Account Number" field, an error message should be displayed specifying that such characters are not allowed.</li> <li>If user tries to process the report using an account not associated with them, an "Account not associated with the User!" error message should be displayed. Users can only perform the transaction on accounts that are associated with them (See RQ-05 &amp; RQ-08).</li> </ol>		

Requirement ID	RQ-15	
	<ul> <li>6. If user has no accounts associated with them, a "No Accounts associated with the user!" error message should be displayed to the screen upon opening Mini Statement module.</li> <li>7. If no validation issues are found, a report of the last five (5) transactions of the account would be displayed on the screen.</li> <li>8. Clicking the <reset> Button would clear all fields from the Mini Statement Report Module.</reset></li> </ul>	
Reference/s	N/A	

Requirement ID	RQ-16		
Title	Create a Report Module Where Users Can View a Customized Statement of their		
	Bank Transactions		
User Story	As a bank personnel/customer, I need a customizable report so that I can define what will be the resulting transaction records that I desire from report.		
Priority	Medium	that i desire from report.	
·	Moderate		
Severity			
User/s	Bank Division/Customer		
Front-end	The User Interface should include the fo	llowing:	
Requirement/s	# Name Type		
	1 Account Number Text Box		
	2 From Date Date		
	3 To Date Date		
	4 Amount Lower Limit Text Box		
	5 Number of Transaction Text Box		
	6 Submit Button		
	7 Reset Button		
Report Detail/s			

Requirement ID	RQ-16
	<ol> <li>If the "To Date" is not set, filter will end at the very last transaction performed by the account.</li> <li>If no validation issues are found, a report of the last five (5) transactions of the account would be displayed on the screen.</li> <li>Clicking the <reset> Button would clear all fields from the Mini Statement Report Module.</reset></li> </ol>
Reference/s	N/A

# 2.5 Other Requirements

Requirement ID	RQ-17
Title	Website should have Compatibility with Google Chrome Web Browser
User Story	N/A
Priority	High
Severity	Severe
User/s	Bank Division/Customers
Requirement/s	<ol> <li>The Guru99 Banking Website should work properly if accessed via the Google Chrome Web Browser.</li> <li>Web Element's Horizontal and Vertical alignments should be precise.</li> <li>Fonts should be readable.</li> </ol>
Reference/s	N/A

# 2.6 Use Cases

# A. RQ-01: Create a Login Module

#### 1. Main Scenario

Step	Description
1	A: Opens website from a Web Browser.
2	S: Loads Login Screen.
3	A: Enters a valid User ID at "User ID" Field
4	A: Enters the correct User Password at "Password" Field.
5	A: Clicks <login> Button.</login>
6	S: Allows access to website.

Step	Description
3A	A: Enters an invalid User ID at "User ID" Field.
	S: Displays "Invalid User ID!" error message
4A	A: Enters incorrect User Password at "Password" Field.
	S: Displays "Incorrect Password!" error message.
3B	A: Leaves "User ID" Field blank.
	S: Displays "User ID field is mandatory!" error message.
4B	A: Leaves "Password "Field blank.
	S: Displays "Password field is mandatory!" error message.
5A	A: Clicks <reset> Button.</reset>
	S: Clears values from all Login Screen fields.

# B. RQ-02: Create a New User Module

#### 1. Main Scenario

Step	Description
1	A: Opens website from a Web Browser.
2	A: Logs in.
3	A: Opens New User.
4	A: Enters User ID at "User ID" Field.
5	A: Enters Password at "Password" Field.
6	A: Re-enters Password at "Confirm Password" Field.
7	A: Selects a user role from the User Role Drop-down List Options.
8	A: Clicks <submit> Button.</submit>
9	S: Saves user record.

#### 2. Alternate Scenario (Extensions)

Step	Description
4A	A: Enters a User ID that already exists to the system.
	S: Displays "User ID already exists!" error message
5A	A: Enters a User Password that doesn't have a numeric character at "Password" Field.
	S: Displays "Password must have (1) Numeric and (1) Special Characters!" error message.
5B	A: Enters a User Password that doesn't have a special character at "Password" Field.
	S: Displays "Password must have (1) Numeric and (1) Special Characters!" error message.
4B	A: Leaves "User ID" Field blank.
	S: Displays "User ID field is mandatory!" error message.
5C	A: Leaves "Password "Field blank.
	S: Displays "Password field is mandatory!" error message.
6A	A: Enters a different password at "Confirm Password" Field.
	S: Displays "Password does not match!" error message.
7A	A: No roles selected at "User Role" Drop-down List Box.
	S: Displays "No roles selected!" error message.
A8	A: Clicks <reset> Button.</reset>
	S: Clears values from all Login Screen fields.

# C. RQ-03: Create a Delete User Module

#### 1. Main Scenario

Step	Description
1	A: Opens website from a Web Browser.
2	A: Logs in.
3	A: Opens Delete User.
4	A: Enters User ID at "User ID" Field.
5	A: Clicks <submit> Button.</submit>
6	S: Deletes user record.

Step	Description
4A	A: Leaves "User ID" Field blank.
	S: Displays "User ID field is mandatory!" error message.
4B	A: Enters a "User ID" that doesn't exist in the system.
	S: Displays "User not found!" error message.
5A	A: Clicks <reset> Button.</reset>
	S: Clears values from all Login Screen fields.

# D. RQ-04: Create a Change Password Module

#### 1. Main Scenario

Step	Description
1	A: Opens website from a Web Browser.
2	A: Logs in.
3	A: Opens Change Password.
4	A: Enters current password at the "Old Password" Field.
5	A: Enters new password at the "New Password" Field.
6	A: Re-enters new password at the "Confirm Password" Field.
7	A: Clicks <submit> Button.</submit>
	S: Sets the new password as the password of the user.

# 2. Alternate Scenario (Extensions)

Step	Description
4A	A: Enters incorrect password at "Old Password" Field.
	S: Displays "Incorrect Password!" error message.
4B/5A/6A	A: Enters the same passwords on "Old Password", "New Password" and "Confirm
	Password" Fields.
	S: Displays "Old and New Passwords entered are the same!" error message.
5B/6B	A: Enters different passwords on "New Password" and "Confirm Password" Fields.
	S: Displays "Password does not match!" error message.
5C/6C	A: Enters a password on "New Password" and "Confirm Password" Fields without at least
	one (1) numeric character.
	S: Displays "Password does not have at least one (1) numeric character!" error message.
5D/6D	A: Enters a password on "New Password" and "Confirm Password" Fields without at least
	one (1) special character.
	S: Displays "Password does not have at least one (1) special character!" error message.
4C	A: Leaves "Old Password" Field blank.
	S: Displays "Old Password field is mandatory!" error message.
5E	A: Leaves "New Password" Field blank.
	S: Displays "New Password field is mandatory!" error message.
6E	A: Leaves "Confirm Password" Field blank.
	S: Displays "Confirm Password field is mandatory!" error message.
7A	A: Clicks <reset> Button.</reset>
	S: Clears all fields of the Change Password Module.

# E. RQ-05: Create a New Customer Module

#### 1. Main Scenario

Step	Description
1	A: Opens website from a Web Browser.
2	A: Logs in.
3	A: Opens New Customer.
4	A: Enters Customer Name at "Customer Name" Field.
5	A: A: Enters Gender at "Gender" Field.
6	A: Enters Birth Date at "Date of Birth" Field.
7	A: Enters Address at "Address" Field.
8	A: Enters City at "City" Field.
9	A: Enters State at "State" Field.
10	A: Enters PIN at "PIN" Field.
11	A: Enters Telephone Number at "Telephone Number" Field.
12	A: Enters E-Mail at "E-Mail" Field.
13	A: Clicks <submit> Button.</submit>
14	S: Saves Customer Information.

Step	Description
4A	A: Leaves "Customer Name" Field blank.
4/4	S: Displays "Customer Name field is mandatory!" error message.
7A	A: Leaves "Address" Field blank.
//	S: Displays "Address field is mandatory!" error message.
8A	A: Leaves "City" Field blank.
	S: Displays "City field is mandatory!" error message.
9A	A: Leaves "State" Field blank.
//(	S: Displays "State field is mandatory!" error message.
10A	A: Leaves "PIN" Field blank.
10, (	S: Displays "PIN field is mandatory!" error message.
11A	A: Leaves "Telephone Number" Field blank.
	S: Displays "Telephone Number field is mandatory!" error message.
12A	A: Leaves "E-Mail" Field blank.
	S: Displays "E-Mail field is mandatory!" error message.
5A	A: Leaves "Gender" Field blank.
	S: Displays no error messages since entering a value at "Gender" Field is optional.
6A	A: Leaves "Date of Birth" Field blank.
	S: Displays no error messages since entering a value at "Date of Birth" Field is optional.
10B	A: Enters alphabetical characters at "PIN" Field.
	S: Displays "Alphabetical characters not allowed at PIN field!" error message.
11B	A: Enters alphabetical characters at "Telephone Number" Field.
	S: Displays "Alphabetical characters not allowed at Telephone Number field!" error message.
4B	A: Enters numeric characters at "Customer Name" Field.
	S: Displays "Numeric characters not allowed at Customer Name field!" error message.
8B	A: Enters numeric characters at "City" Field.
	S: Displays "Numeric characters not allowed at City field!" error message.
9B	A: Enters numeric characters at "State" Field.
10	S: Displays "Numeric characters not allowed at State field!" error message.
4C	A: Enters special characters at "Customer Name" Field.
7B	S: Displays "Special characters not allowed at Customer Name field!" error message.  A: Enters special characters at "Address" Field.
/ 6	S: Displays "Special characters not allowed at Address field!" error message.
8C	A: Enters special characters at "City" Field.
00	S: Displays "Special characters not allowed at City field!" error message.
9C	A: Enters special characters at "State" Field.
, C	S: Displays "Special characters not allowed at State field!" error message.
10C	A: Enters special characters at "PIN" Field.
100	S: Displays "Special characters not allowed at PIN field!" error message.
11C	A: Enters special characters at "Telephone Number" Field.
	S: Displays "Special characters not allowed at Telephone Number field!" error message.
4D	A: Enters space as first character at "Customer Name" Field.
	S: Displays "First Character at Customer Name field must not be a space!" error message.
7C	A: Enters space as first character at "Address" Field.
	S: Displays "First Character at Address field must not be a space!" error message.
8D	A: Enters space as first character at "City" Field.
	S: Displays "First Character at City field must not be a space!" error message.
9D	A: Enters space as first character at "State" Field.
	S: Displays "First Character at State field must not be a space!" error message.
10D	A: Enters space as first character at "PIN" Field.
	S: Displays "First Character at PIN field must not be a space!" error message.
11D	A: Enters space as first character at "Telephone Number" Field.
	S: Displays "First Character at Telephone Number field must not be a space!" error message.

12B	A: Enters space as first character at "E-Mail" Field.
	S: Displays "First Character at E-Mail field must not be a space!" error message.
10E	A: Enters a number less than 6 Digits at "PIN" Field.
	S: Displays "PIN must have 6 Digits!" error message.
10F	A: Enters a number greater than 6 Digits at "PIN" Field.
	S: Displays "PIN must have 6 Digits!" error message.
12C	A: Enters an E-Mail at "E-Mail" Field that already exists from customer records.
	S: Displays "E-Mail already exists from records!" error message.
13A	A: Clicks <reset> Button.</reset>
	S: Clears values at all New Customer Module fields.

# F. RQ-06: Create an Update Customer Module

#### 1. Main Scenario

Step	Description
1	A: Opens website from a Web Browser.
2	A: Logs in.
3	A: Opens Update Customer.
4	A: Enters Customer ID of customer for editing at "Customer ID" Field.
5	A: Clicks <submit> Button.</submit>
6	S: Searches for the Customer Information based on Customer ID entered.
7	S: Loads edit mode interface, retrieves and displays Customer Information.
8	A: Updates Customer Name at "Customer Name" Field.
9	A: Updates Gender at "Gender" Field.
10	A: Updates Birth Date at "Date of Birth" Field.
11	A: Updates Address at "Address" Field.
12	A: Updates City at "City" Field.
13	A: Updates State at "State" Field.
14	A: Updates PIN at "PIN" Field.
15	A: Updates Telephone Number at "Telephone Number" Field.
16	A: Updates E-Mail at "E-Mail" Field.
17	A: Clicks <submit> Button.</submit>
18	S: Saves changes made to the Customer Information.

Step	Description
4A	A: Leaves "Customer ID" Field blank.
	S: Displays "Customer ID field is mandatory!" error message.
4B	A: Enters alphabetical characters at "Customer ID" Field.
	S: Displays "Alphabetical characters not allowed at Customer ID field!" error message.
4C	A: Enters special characters at "Customer ID" Field.
	S: Displays "Special characters not allowed at Customer ID field!" error message.
4D	A: Enters space as first character at "Customer ID" Field.
	S: Displays "First Character at Customer ID field must not be a space!" error message.
4E	A: Enters an invalid Customer ID at "Customer ID" Field.
	S: Displays "Customer ID not found!" error message.
A8	A: Leaves "Customer Name" Field blank.
	S: Displays "Customer Name field is mandatory!" error message.
11A	A: Leaves "Address" Field blank.
	S: Displays "Address field is mandatory!" error message.
12A	A: Leaves "City" Field blank.
	S: Displays "City field is mandatory!" error message.
13A	A: Leaves "State" Field blank.
	S: Displays "State field is mandatory!" error message.

14A	A: Leaves "PIN" Field blank.
	S: Displays "PIN field is mandatory!" error message.
15A	A: Leaves "Telephone Number" Field blank.
	S: Displays "Telephone Number field is mandatory!" error message.
16A	A: Leaves "E-Mail" Field blank.
	S: Displays "E-Mail field is mandatory!" error message.
9A	A: Leaves "Gender" Field blank.
	S: Displays no error messages since entering a value at "Gender" Field is optional.
10A	A: Leaves "Date of Birth" Field blank.
	S: Displays no error messages since entering a value at "Date of Birth" Field is optional.
14B	A: Enters alphabetical characters at "PIN" Field.
	S: Displays "Alphabetical characters not allowed at PIN field!" error message.
15B	A: Enters alphabetical characters at "Telephone Number" Field.
	S: Displays "Alphabetical characters not allowed at Telephone Number field!" error message.
8B	A: Enters numeric characters at "Customer Name" Field.
	S: Displays "Numeric characters not allowed at Customer Name field!" error message.
12B	A: Enters numeric characters at "City" Field.
	S: Displays "Numeric characters not allowed at City field!" error message.
13B	A: Enters numeric characters at "State" Field.
	S: Displays "Numeric characters not allowed at State field!" error message.
8C	A: Enters special characters at "Customer Name" Field.
	S: Displays "Special characters not allowed at Customer Name field!" error message.
11B	A: Enters special characters at "Address" Field.
	S: Displays "Special characters not allowed at Address field!" error message.
12C	A: Enters special characters at "City" Field.
	S: Displays "Special characters not allowed at City field!" error message.
13C	A: Enters special characters at "State" Field.
	S: Displays "Special characters not allowed at State field!" error message.
14C	A: Enters special characters at "PIN" Field.
	S: Displays "Special characters not allowed at PIN field!" error message.
15C	A: Enters special characters at "Telephone Number" Field.
0.0	S: Displays "Special characters not allowed at Telephone Number field!" error message.
8D	A: Enters space as first character at "Customer Name" Field.
110	S: Displays "First Character at Customer Name field must not be a space!" error message.
11C	A: Enters space as first character at "Address" Field.
100	S: Displays "First Character at Address field must not be a space!" error message.
12D	A: Enters space as first character at "City" Field.
120	S: Displays "First Character at City field must not be a space!" error message.
13D	A: Enters space as first character at "State" Field. S: Displays "First Character at State field must not be a space!" error message.
14D	· · · · · · · · · · · · · · · · · · ·
140	A: Enters space as first character at "PIN" Field. S: Displays "First Character at PIN field must not be a space!" error message.
15D	A: Enters space as first character at "Telephone Number" Field.
130	S: Displays "First Character at Telephone Number field must not be a space!" error message.
16B	A: Enters space as first character at "E-Mail" Field.
100	S: Displays "First Character at E-Mail field must not be a space!" error message.
14E	A: Enters a number less than 6 Digits at "PIN" Field.
1 1L	S: Displays "PIN must have 6 Digits!" error message.
14F	A: Enters a number greater than 6 Digits at "PIN" Field.
	S: Displays "PIN must have 6 Digits!" error message.
16C	A: Enters an E-Mail at "E-Mail" Field that already exists from customer records and is not the
100	current E-Mail value.
	S: Displays "E-Mail already exists from records!" error message.
17A	A: Clicks <reset> Button.</reset>
	S: Clears values at all Update Customer Module fields.
	·

# G. RQ-07: Create a Delete Customer Module

#### 1. Main Scenario

Step	Description
1	A: Opens website from a Web Browser.
2	A: Logs in.
3	A: Opens Delete Customer.
4	A: Enters Customer ID of customer for deletion at "Customer ID" Field.
5	A: Clicks <submit> Button.</submit>
6	S: Deletes customer record specified.

#### 2. Alternate Scenario (Extensions)

Step	Description
4A	A: Leaves "Customer ID" Field blank.
	S: Displays "Customer ID field is mandatory!" error message.
4B	A: Enters alphabetical characters at "Customer ID" Field.
	S: Displays "Alphabetical characters not allowed at Customer ID field!" error message.
4C	A: Enters special characters at "Customer ID" Field.
	S: Displays "Special characters not allowed at Customer ID field!" error message.
4D	A: Enters space as first character at "Customer ID" Field.
	S: Displays "First Character at Customer ID field must not be a space!" error message.
4E	A: Enters an invalid Customer ID at "Customer ID" Field.
	S: Displays "Customer ID not found!" error message.
4F	A: Enters a Customer ID at "Customer ID" Field with Account/s still associated.
	S: Displays "Account/s still associated with the Customer!" error message.
4G	A: Enters a Customer ID at "Customer ID" Field that is not associated with the user.
	S: Displays "Customer not associated with the User!" error message.
5A	A: Clicks <reset> Button.</reset>
	S: Clears values from all Delete Customer Module Fields.

# H. RQ-08: Create a New Account Module

#### 1. Main Scenario

Step	Description
1	A: Opens website from a Web Browser.
2	A: Logs in.
3	A: Opens New Account.
4	A: Enters Customer ID at "Customer ID" Field.
5	A: Selects Account Type at "Account Type" Field.
6	A: Enters Initial Deposit Amount at "Initial Deposit" Field.
7	A: Clicks <submit> Button.</submit>
8	S: Saves Account Information.

Step	Description
4A	A: Leaves "Customer ID" Field blank.
	S: Displays "Customer ID field is mandatory!" error message.
5A	A: Leaves "Account Type" Field blank.
	S: Displays "Account Type field is mandatory!" error message.
4B	A: Enters alphabetical characters at "Customer ID" Field.
	S: Displays "Alphabetical characters not allowed at Customer ID field!" error message.
4C	A: Enters special characters at "Customer ID" Field.
	S: Displays "Special characters not allowed at Customer ID field!" error message.

4D	A: Enters space as first character at "Customer ID" Field.
	S: Displays "First Character at Customer ID field must not be a space!" error message.
4E	A: Enters an invalid Customer ID at "Customer ID" Field.
	S: Displays "Customer ID not found!" error message.
6A	A: Enters initial deposit amount less than 500 at "Initial Deposit" Field.
	S: Displays "Initial Deposit is less than 500!" error message.
7A	A: Clicks <reset> Button.</reset>
	S: Clears values from all New Account Module fields.

# I. RQ-09: Create an Update Account Module

#### 1. Main Scenario

Step	Description
1	A: Opens website from a Web Browser.
2	A: Logs in.
3	A: Opens Update Account.
4	A: Enters Account Number of account for editing at "Account Number" Field.
5	A: Clicks <submit> Button.</submit>
6	S: Searches for the Account Information based on Account Number entered.
7	S: Retrieves and displays Account Information.
8	A: Updates Customer ID at "Customer ID" Field.
9	A: Updates Account Type at "Account Type" Field.
10	A: Updates Initial Deposit Amount at "Initial Deposit" Field.
11	A: Clicks <submit> Button.</submit>
12	S: Saves changes made to the Account Information.

Step	Description
4A	A: Enters an invalid Account Number at "Account Number" Field.
	S: Displays "Account Number not found!" error message.
4B	A: Leaves "Account Number" Field blank.
	S: Displays "Account Number field is mandatory!" error message.
4C	A: Enters alphabetical characters at "Account Number" Field.
	S: Displays "Alphabetical characters not allowed at Account Number field!" error message.
4D	A: Enters special characters at "Account Number" Field.
	S: Displays "Special characters not allowed at Account Number field!" error message.
4E	A: Enters an Account Number at "Account Number" Field that is not associated with the
	user/customer.
	S: Displays "Account not associated with the user/customer!" error message.
8A	A: Leaves "Customer ID" Field blank.
	S: Displays "Customer ID field is mandatory!" error message.
9A	A: Leaves "Account Type" Field blank.
	S: Displays "Account Type field is mandatory!" error message.
8B	A: Enters alphabetical characters at "Customer ID" Field.
	S: Displays "Alphabetical characters not allowed at Customer ID field!" error message.
8C	A: Enters special characters at "Customer ID" Field.
	S: Displays "Special characters not allowed at Customer ID field!" error message.
8D	A: Enters space as first character at "Customer ID" Field.
	S: Displays "First Character at Customer ID field must not be a space!" error message.
8E	A: Enters an invalid Customer ID at "Customer ID" Field.
	S: Displays "Customer ID not found!" error message.
10A	A: Enters initial deposit amount less than 500 at "Initial Deposit" Field.
	S: Displays "Initial Deposit is less than 500!" error message.
11A	A: Clicks <reset> Button.</reset>
	S: Clears all fields of the Update Account Module.

# J. RQ-10: Create a Delete Account Module

#### 1. Main Scenario

Step	Description
1	A: Opens website from a Web Browser.
2	A: Logs in.
3	A: Opens Delete Account.
4	A: Enters Account Number of account for deletion at "Account Number" Field.
5	A: Clicks <submit> Button.</submit>
6	S: Deletes Account Information based on Account Number specified.

# 2. Alternate Scenario (Extensions)

Step	Description
4A	A: Enters an invalid Account Number at "Account Number" Field.
	S: Displays "Account Number not found!" error message.
4B	A: Leaves "Account Number" Field blank.
	S: Displays "Account Number field is mandatory!" error message.
4C	A: Enters alphabetical characters at "Account Number" Field.
	S: Displays "Alphabetical characters not allowed at Account Number field!" error message.
4D	A: Enters special characters at "Account Number" Field.
	S: Displays "Special characters not allowed at Account Number field!" error message.
4E	A: Enters an Account Number at "Account Number" Field that is not associated with the
	user/customer.
	S: Displays "Account not associated with the user/customer!" error message.
5A	A: Clicks <reset> Button.</reset>
	S: Clears all fields of the Delete Account Module.

# K. RQ-11: Create a Balance Inquiry Module

#### 1. Main Scenario

Step	Description
1	A: Opens website from a Web Browser.
2	A: Logs in.
3	A: Opens Balance Inquiry.
4	A: Enters valid Account Number at "Account Number" Field.
5	A: Clicks <submit> Button.</submit>
6	S: Searches for the Account Number within records and returns remaining balance.

Step	Description
4A	A: Enters an invalid Account Number at "Account Number" Field.
	S: Displays "Account Number not found!" error message.
4B	A: Leaves "Account Number" Field blank.
	S: Displays "Account Number field is mandatory!" error message.
4C	A: Enters alphabetical characters at "Account Number" Field.
	S: Displays "Alphabetical characters not allowed at Account Number field!" error message.
4D	A: Enters special characters at "Account Number" Field.
	S: Displays "Special characters not allowed at Account Number field!" error message.
4E	A: Enters an Account Number at "Account Number" Field that is not associated with the
	user/customer.
	S: Displays "Account not associated with the user/customer!" error message.
5A	A: Clicks <reset> Button.</reset>
	S: Clears all fields of the Balance Inquiry Module.

# L. RQ-12: Create a Deposit Module

#### 1. Main Scenario

Step	Description
1	A: Opens website from a Web Browser.
2	A: Logs in.
3	A: Opens Deposit.
4	A: Enters Account Number at "Account Number" Field.
5	A: Enters amount to be deposited at "Amount" Field.
6	A: Enters transaction description at "Description" Field.
7	A: Clicks <submit> Button.</submit>
8	S: Deposits the amount to the Account specified.

# 2. Alternate Scenario (Extensions)

Step	Description
4A	A: Enters an invalid Account Number at "Account Number" Field.
	S: Displays "Account Number not found!" error message.
4B	A: Leaves "Account Number" Field blank.
	S: Displays "Account Number field is mandatory!" error message.
5A	A: Leaves "Amount" Field blank.
	S: Displays "Amount field is mandatory!" error message.
6A	A: Leaves "Description" Field blank.
	S: Displays "Description field is mandatory!" error message.
4C	A: Enters alphabetical characters at "Account Number" Field.
	S: Displays "Alphabetical characters not allowed at Account Number field!" error message.
5B	A: Enters alphabetical characters at "Amount" Field.
	S: Displays "Alphabetical characters not allowed at Amount field!" error message.
4D	A: Enters special characters at "Account Number" Field.
	S: Displays "Special characters not allowed at Account Number field!" error message.
5C	A: Enters special characters at "Amount" Field.
	S: Displays "Special characters not allowed at Amount field!" error message.
5D	A: Enters zero value at "Amount" Field.
	S: Displays "Zero value not allowed at Amount field!" error message.
5E	A: Enters negative value at "Amount" Field.
	S: Displays "Negative value not allowed at Amount field!" error message.
4E	A: Enters an Account Number at "Account Number" Field that is not associated with the
	user/customer.
	S: Displays "Account not associated with the user/customer!" error message.
7A	A: Clicks <reset> Button.</reset>
	S: Clears all fields of the Deposit Module.

# M. RQ-13: Create a Withdraw Module

#### 1. Main Scenario

Step	Description
1	A: Opens website from a Web Browser.
2	A: Logs in.
3	A: Opens Withdraw.
4	A: Enters Account Number at "Account Number" Field.
5	A: Enters amount to be withdrawn at "Amount" Field.
6	A: Enters transaction description at "Description" Field.
7	A: Clicks <submit> Button.</submit>
8	S: Withdraws the amount from the Account specified.

# 2. Alternate Scenario (Extensions)

Step	Description
4A	A: Enters an invalid Account Number at "Account Number" Field.
	S: Displays "Account Number not found!" error message.
4B	A: Leaves "Account Number" Field blank.
	S: Displays "Account Number field is mandatory!" error message.
5A	A: Leaves "Amount" Field blank.
	S: Displays "Amount field is mandatory!" error message.
6A	A: Leaves "Description" Field blank.
	S: Displays "Description field is mandatory!" error message.
4C	A: Enters alphabetical characters at "Account Number" Field.
	S: Displays "Alphabetical characters not allowed at Account Number field!" error message.
5B	A: Enters alphabetical characters at "Amount" Field.
	S: Displays "Alphabetical characters not allowed at Amount field!" error message.
4D	A: Enters special characters at "Account Number" Field.
	S: Displays "Special characters not allowed at Account Number field!" error message.
5C	A: Enters special characters at "Amount" Field.
	S: Displays "Special characters not allowed at Amount field!" error message.
5D	A: Enters zero value at "Amount" Field.
	S: Displays "Zero value not allowed at Amount field!" error message.
5E	A: Enters negative value at "Amount" Field.
	S: Displays "Negative value not allowed at Amount field!" error message.
4E	A: Enters an Account Number at "Account Number" Field that is not associated with the
	user/customer.
	S: Displays "Account not associated with the user/customer!" error message.
4F	A: Enters an Account Number with insufficient balance to perform transaction.
	S: Displays "Insufficient funds!" error message.
7A	A: Clicks <reset> Button.</reset>
	S: Clears all fields of the Withdraw Module.

# N. RQ-14: Create a Fund Transfer Module

#### 1. Main Scenario

Step	Description
1	A: Opens website from a Web Browser.
2	A: Logs in.
3	A: Opens Fund Transfer.
4	A: Enters Source Account Number at "Payer's Account Number" Field.
5	A: Enters Destination Account Number at "Payee's Account Number" Field.
6	A: Enters Amount to transfer at "Amount" Field.
7	A: Enters transaction Description at "Description" Field.
8	A: Clicks <submit> Button.</submit>
9	S: Transfers the funds specified from the Source Account to the Destination Account.

Step	Description
4A	A: Enters an invalid Account Number at "Payer's Account Number" Field.
	S: Displays "Source Account Number not found!" error message.
5A	A: Enters an invalid Account Number at "Payee's Account Number" Field.
	S: Displays "Destination Account Number not found!" error message.
4B/5B	A: Enters the same Account Number at "Payer's Account Number" and "Payee's Account Number" Fields.
	S: Displays "Source and Destination Account Numbers are the same!" error message.

<ul> <li>4C A: Enters a Source Account Number with insufficient balance to perform transaction. S: Displays "Insufficient funds!" error message.</li> <li>4D A: Leaves "Payer's Account Number" Field blank. S: Displays "Payer's Account Number field is mandatory!" error message.</li> <li>5C A: Leaves "Payee's Account Number field is mandatory!" error message.</li> <li>6A A: Leaves "Amount" Field blank. S: Displays "Payee's Account Number field is mandatory!" error message.</li> <li>6A A: Leaves "Amount" Field blank. S: Displays "Description" Field blank. S: Displays "Description field is mandatory!" error message.</li> <li>4E A: Enters alphabetical characters at "Payer's Account Number" Field. S: Displays "Alphabetical characters at "Payer's Account Number" Field. S: Displays "Alphabetical characters at "Payee's Account Number" Field. S: Displays "Alphabetical characters at "Payee's Account Number" Field. S: Displays "Alphabetical characters not allowed at Payee's Account Number field!" error message.</li> <li>6B A: Enters alphabetical characters at "Amount" Field. S: Displays "Alphabetical characters not allowed at Payee's Account Number field!" error message.</li> <li>4F A: Enters special characters at "Payer's Account Number" Field. S: Displays "Special characters not allowed at Payer's Account Number field!" error message.</li> <li>5E A: Enters special characters at "Payee's Account Number" Field. S: Displays "Special characters not allowed at Payee's Account Number field!" error message.</li> <li>6C A: Enters special characters at "Amount" Field. S: Displays "Special characters not allowed at Amount field!" error message.</li> <li>6D A: Enters negative value at "Amount" Field. S: Displays "Special characters not allowed!" error message.</li> <li>6D A: Enters negative value at "Amount" Field. S: Displays "Special characters not allowed!" error message.</li> <li>6D A: Enters an Account Number at "Payer's Account Number" Field that is not associated with the user/customer. S: Displays "Source Account not associa</li></ul>		
<ul> <li>4D A: Leaves "Payer's Account Number" Field blank.</li> <li>S: Displays "Payer's Account Number field is mandatory!" error message.</li> <li>5C A: Leaves "Payee's Account Number field blank.</li> <li>S: Displays "Payee's Account Number field is mandatory!" error message.</li> <li>6A A: Leaves "Amount" Field blank.</li> <li>S: Displays "Amount field is mandatory!" error message.</li> <li>7A A: Leaves "Description" Field blank.</li> <li>S: Displays "Description field is mandatory!" error message.</li> <li>4E A: Enters alphabetical characters at "Payer's Account Number" Field.</li> <li>S: Displays "Alphabetical characters not allowed at Payer's Account Number field!" error message.</li> <li>5D A: Enters alphabetical characters at "Payee's Account Number" Field.</li> <li>S: Displays "Alphabetical characters not allowed at Payee's Account Number field!" error message.</li> <li>6B A: Enters alphabetical characters at "Amount" Field.</li> <li>S: Displays "Alphabetical characters at "Amount Field!" error message.</li> <li>4F A: Enters special characters at "Payer's Account Number" Field.</li> <li>S: Displays "Special characters at "Payer's Account Number" Field.</li> <li>S: Displays "Special characters at "Payee's Account Number field!" error message.</li> <li>5E A: Enters special characters at "Payee's Account Number" Field.</li> <li>S: Displays "Special characters at "Payee's Account Number field!" error message.</li> <li>6C A: Enters special characters at "Amount" Field.</li> <li>S: Displays "Special characters at "Amount" Field.</li> <li>S: Displays "Special characters at "Amount" Field.</li> <li>S: Displays "Special characters not allowed at Amount field!" error message.</li> <li>6E A: Enters negative value at "Amount" Field.</li> <li>S: Displays "Negative amount value not allowed!" error message.</li> <li>6E A: Enters an Account Number at "Payer's Account Number" Field that is not associated with the user/customer.</li> <li>S: Displays "Source Account not associated with the user/customer!" error message</li></ul>	4C	
S: Displays "Payer's Account Number field is mandatory!" error message.  6C A: Leaves "Payee's Account Number field blank. S: Displays "Payee's Account Number field is mandatory!" error message.  6A A: Leaves "Amount" Field blank. S: Displays "Amount field is mandatory!" error message.  7A A: Leaves "Description" Field blank. S: Displays "Description field is mandatory!" error message.  4E A: Enters alphabetical characters at "Payer's Account Number" Field. S: Displays "Alphabetical characters not allowed at Payer's Account Number field!" error message.  5D A: Enters alphabetical characters at "Payee's Account Number" Field. S: Displays "Alphabetical characters not allowed at Payee's Account Number field!" error message.  6B A: Enters alphabetical characters at "Amount" Field. S: Displays "Alphabetical characters not allowed at Amount field!" error message.  4F A: Enters special characters at "Payer's Account Number" Field. S: Displays "Special characters not allowed at Payer's Account Number field!" error message.  5E A: Enters special characters not allowed at Payer's Account Number field!" error message.  6C A: Enters special characters not allowed at Payee's Account Number field!" error message.  6C A: Enters special characters not allowed at Payee's Account Number field!" error message.  6C A: Enters special characters not allowed at Payee's Account Number field!" error message.  6C A: Enters pecial characters not allowed at Payee's Account Number field!" error message.  6C A: Enters pecial characters not allowed!" error message.  6C A: Enters negative value at "Amount" Field. S: Displays "Special characters not allowed!" error message.  6A: Enters negative value at "Amount" Field. S: Displays "Negative amount value not allowed!" error message.  6A: Enters an Account Number at "Payer's Account Number" Field that is not associated with the user/customer. S: Displays "Source Account not associated with the user/customer!" error message.	4D	
<ul> <li>5C A: Leaves "Payee's Account Number" Field blank.</li> <li>S: Displays "Payee's Account Number field is mandatory!" error message.</li> <li>6A A: Leaves "Amount" Field blank.</li> <li>S: Displays "Amount field is mandatory!" error message.</li> <li>7A A: Leaves "Description" Field blank.</li> <li>S: Displays "Description field is mandatory!" error message.</li> <li>4E A: Enters alphabetical characters at "Payer's Account Number" Field.</li> <li>S: Displays "Alphabetical characters not allowed at Payer's Account Number field!" error message.</li> <li>5D A: Enters alphabetical characters at "Payee's Account Number" Field.</li> <li>S: Displays "Alphabetical characters not allowed at Payee's Account Number field!" error message.</li> <li>6B A: Enters alphabetical characters at "Amount" Field.</li> <li>S: Displays "Alphabetical characters not allowed at Amount field!" error message.</li> <li>4F A: Enters special characters at "Payer's Account Number" Field.</li> <li>S: Displays "Special characters not allowed at Payer's Account Number field!" error message.</li> <li>5E A: Enters special characters at "Payee's Account Number" Field.</li> <li>S: Displays "Special characters not allowed at Payee's Account Number field!" error message.</li> <li>6C A: Enters special characters not allowed at Payee's Account Number field!" error message.</li> <li>6C A: Enters special characters not allowed at Payee's Account Number field!" error message.</li> <li>6D A: Enters zero value at "Amount" Field.</li> <li>S: Displays "Special characters not allowed!" error message.</li> <li>6E A: Enters negative value at "Amount" Field.</li> <li>S: Displays "Yero amount value not allowed!" error message.</li> <li>6E A: Enters an Account Number at "Payer's Account Number" Field that is not associated with the user/customer.</li> <li>S: Displays "Negative amount value not allowed!" error message.</li> <li>8A A: Clicks &lt; Reset&gt; Button.</li> </ul>	שד	· ·
S: Displays "Payee's Account Number field is mandatory!" error message.  A: Leaves "Amount" Field blank. S: Displays "Amount field is mandatory!" error message.  A: Leaves "Description" Field blank. S: Displays "Description field is mandatory!" error message.  4E A: Enters alphabetical characters at "Payer's Account Number" Field. S: Displays "Alphabetical characters not allowed at Payer's Account Number field!" error message.  5D A: Enters alphabetical characters at "Payee's Account Number" Field. S: Displays "Alphabetical characters not allowed at Payee's Account Number field!" error message.  6B A: Enters alphabetical characters at "Amount" Field. S: Displays "Alphabetical characters not allowed at Amount field!" error message.  4F A: Enters apecial characters at "Payer's Account Number" Field. S: Displays "Special characters not allowed at Payer's Account Number field!" error message.  5E A: Enters special characters at "Payee's Account Number" Field. S: Displays "Special characters not allowed at Payee's Account Number field!" error message.  6C A: Enters special characters not allowed at Payee's Account Number field!" error message.  6C A: Enters special characters at "Amount" Field. S: Displays "Special characters at "Amount" Field. S: Displays "Special characters not allowed!" error message.  6E A: Enters negative value at "Amount" Field. S: Displays "Yero amount value not allowed!" error message.  6E A: Enters an Account Number at "Payer's Account Number" Field that is not associated with the user/customer. S: Displays "Source Account not associated with the user/customer!" error message.  8A A: Clicks <reset> Button.</reset>	50	
<ul> <li>6A A: Leaves "Amount" Field blank.</li> <li>S: Displays "Amount field is mandatory!" error message.</li> <li>7A A: Leaves "Description" Field blank.</li> <li>S: Displays "Description field is mandatory!" error message.</li> <li>4E A: Enters alphabetical characters at "Payer's Account Number" Field.</li> <li>S: Displays "Alphabetical characters not allowed at Payer's Account Number field!" error message.</li> <li>5D A: Enters alphabetical characters at "Payee's Account Number" Field.</li> <li>S: Displays "Alphabetical characters not allowed at Payee's Account Number field!" error message.</li> <li>6B A: Enters alphabetical characters at "Amount" Field.</li> <li>S: Displays "Alphabetical characters not allowed at Amount field!" error message.</li> <li>4F A: Enters special characters at "Payer's Account Number" Field.</li> <li>S: Displays "Special characters not allowed at Payer's Account Number field!" error message.</li> <li>5E A: Enters special characters at "Payee's Account Number" Field.</li> <li>S: Displays "Special characters not allowed at Payee's Account Number field!" error message.</li> <li>6C A: Enters special characters not allowed at Payee's Account Number field!" error message.</li> <li>6C A: Enters special characters at "Amount" Field.</li> <li>S: Displays "Special characters not allowed at Amount field!" error message.</li> <li>6D A: Enters zero value at "Amount" Field.</li> <li>S: Displays "Zero amount value not allowed!" error message.</li> <li>6E A: Enters negative value at "Amount" Field.</li> <li>S: Displays "Negative amount value not allowed!" error message.</li> <li>6E A: Enters an Account Number at "Payer's Account Number" Field that is not associated with the user/customer.</li> <li>S: Displays "Source Account not associated with the user/customer!" error message.</li> <li>8A A: Clicks <reset> Button.</reset></li> </ul>	50	
<ul> <li>S: Displays "Amount field is mandatory!" error message.</li> <li>7A A: Leaves "Description" Field blank.</li> <li>S: Displays "Description field is mandatory!" error message.</li> <li>4E A: Enters alphabetical characters at "Payer's Account Number" Field.</li> <li>S: Displays "Alphabetical characters not allowed at Payer's Account Number field!" error message.</li> <li>5D A: Enters alphabetical characters at "Payee's Account Number" Field.</li> <li>S: Displays "Alphabetical characters not allowed at Payee's Account Number field!" error message.</li> <li>6B A: Enters alphabetical characters at "Amount" Field.</li> <li>S: Displays "Alphabetical characters not allowed at Amount field!" error message.</li> <li>4F A: Enters special characters at "Payer's Account Number" Field.</li> <li>S: Displays "Special characters not allowed at Payer's Account Number field!" error message.</li> <li>5E A: Enters special characters at "Payee's Account Number" Field.</li> <li>S: Displays "Special characters not allowed at Payee's Account Number field!" error message.</li> <li>6C A: Enters special characters at "Amount" Field.</li> <li>S: Displays "Special characters not allowed at Amount field!" error message.</li> <li>6D A: Enters special characters not allowed!" error message.</li> <li>6E A: Enters negative value at "Amount" Field.</li> <li>S: Displays "Zero amount value not allowed!" error message.</li> <li>6E A: Enters an Account Number at "Payer's Account Number" Field that is not associated with the user/customer.</li> <li>S: Displays "Source Account not associated with the user/customer!" error message.</li> <li>8A A: Clicks <reset> Button.</reset></li> </ul>	4۸	, , ,
<ul> <li>A: Leaves "Description" Field blank.</li> <li>S: Displays "Description field is mandatory!" error message.</li> <li>A: Enters alphabetical characters at "Payer's Account Number" Field.</li> <li>S: Displays "Alphabetical characters not allowed at Payer's Account Number field!" error message.</li> <li>A: Enters alphabetical characters at "Payee's Account Number" Field.</li> <li>S: Displays "Alphabetical characters not allowed at Payee's Account Number field!" error message.</li> <li>A: Enters alphabetical characters at "Amount" Field.</li> <li>S: Displays "Alphabetical characters not allowed at Amount field!" error message.</li> <li>A: Enters special characters at "Payer's Account Number" Field.</li> <li>S: Displays "Special characters not allowed at Payer's Account Number field!" error message.</li> <li>A: Enters special characters not allowed at Payee's Account Number field!" error message.</li> <li>A: Enters special characters not allowed at Payee's Account Number field!" error message.</li> <li>A: Enters special characters not allowed at Payee's Account Number field!" error message.</li> <li>A: Enters special characters not allowed at Amount field!" error message.</li> <li>A: Enters zero value at "Amount" Field.</li> <li>S: Displays "Special characters not allowed!" error message.</li> <li>A: Enters negative value at "Amount" Field.</li> <li>S: Displays "Tero amount value not allowed!" error message.</li> <li>A: Enters an Account Number at "Payer's Account Number" Field that is not associated with the user/customer.</li> <li>S: Displays "Source Account not associated with the user/customer!" error message.</li> <li>A: Clicks <reset> Button.</reset></li> </ul>	UA	
S: Displays "Description field is mandatory!" error message.  4E A: Enters alphabetical characters at "Payer's Account Number" Field.  S: Displays "Alphabetical characters not allowed at Payer's Account Number field!" error message.  5D A: Enters alphabetical characters at "Payee's Account Number" Field.  S: Displays "Alphabetical characters not allowed at Payee's Account Number field!" error message.  6B A: Enters alphabetical characters at "Amount" Field.  S: Displays "Alphabetical characters not allowed at Amount field!" error message.  4F A: Enters special characters at "Payer's Account Number" Field.  S: Displays "Special characters not allowed at Payer's Account Number field!" error message.  5E A: Enters special characters not allowed at Payer's Account Number field!" error message.  6C A: Enters special characters not allowed at Payee's Account Number field!" error message.  6C A: Enters special characters not allowed at Payee's Account Number field!" error message.  6D A: Enters zero value at "Amount" Field.  S: Displays "Special characters not allowed!" error message.  6E A: Enters negative value at "Amount" Field.  S: Displays "Zero amount value not allowed!" error message.  6E A: Enters an Account Number at "Payer's Account Number" Field that is not associated with the user/customer.  S: Displays "Source Account not associated with the user/customer!" error message.  8A A: Clicks <reset> Button.</reset>	71	
<ul> <li>A: Enters alphabetical characters at "Payer's Account Number" Field.</li> <li>S: Displays "Alphabetical characters not allowed at Payer's Account Number field!" error message.</li> <li>A: Enters alphabetical characters at "Payee's Account Number" Field.</li> <li>S: Displays "Alphabetical characters not allowed at Payee's Account Number field!" error message.</li> <li>A: Enters alphabetical characters at "Amount" Field.</li> <li>S: Displays "Alphabetical characters not allowed at Amount field!" error message.</li> <li>A: Enters special characters at "Payer's Account Number" Field.</li> <li>S: Displays "Special characters not allowed at Payer's Account Number field!" error message.</li> <li>A: Enters special characters at "Payee's Account Number" Field.</li> <li>S: Displays "Special characters not allowed at Payee's Account Number field!" error message.</li> <li>A: Enters special characters not allowed at Payee's Account Number field!" error message.</li> <li>A: Enters special characters not allowed at Amount field!" error message.</li> <li>A: Enters zero value at "Amount" Field.</li> <li>S: Displays "Special characters not allowed!" error message.</li> <li>A: Enters negative value at "Amount" Field.</li> <li>S: Displays "Yero amount value not allowed!" error message.</li> <li>A: Enters an Account Number at "Payer's Account Number" Field that is not associated with the user/customer.</li> <li>S: Displays "Source Account not associated with the user/customer!" error message.</li> <li>A: Clicks <reset> Button.</reset></li> </ul>	//	
S: Displays "Alphabetical characters not allowed at Payer's Account Number field!" error message.  5D A: Enters alphabetical characters at "Payee's Account Number" Field. S: Displays "Alphabetical characters not allowed at Payee's Account Number field!" error message.  6B A: Enters alphabetical characters at "Amount" Field. S: Displays "Alphabetical characters not allowed at Amount field!" error message.  4F A: Enters special characters at "Payer's Account Number" Field. S: Displays "Special characters at "Payee's Account Number" Field. S: Displays "Special characters at "Payee's Account Number" Field. S: Displays "Special characters not allowed at Payee's Account Number field!" error message.  6C A: Enters special characters at "Amount" Field. S: Displays "Special characters not allowed at Amount field!" error message.  6D A: Enters zero value at "Amount" Field. S: Displays "Zero amount value not allowed!" error message.  6E A: Enters negative value at "Amount" Field. S: Displays "Negative amount value not allowed!" error message.  4G A: Enters an Account Number at "Payer's Account Number" Field that is not associated with the user/customer. S: Displays "Source Account not associated with the user/customer!" error message.  8A A: Clicks <reset> Button.</reset>	1E	
message.  A: Enters alphabetical characters at "Payee's Account Number" Field. S: Displays "Alphabetical characters not allowed at Payee's Account Number field!" error message.  A: Enters alphabetical characters at "Amount" Field. S: Displays "Alphabetical characters not allowed at Amount field!" error message.  4F	76	· ·
<ul> <li>A: Enters alphabetical characters at "Payee's Account Number" Field.</li> <li>S: Displays "Alphabetical characters not allowed at Payee's Account Number field!" error message.</li> <li>A: Enters alphabetical characters at "Amount" Field.</li> <li>S: Displays "Alphabetical characters not allowed at Amount field!" error message.</li> <li>A: Enters special characters at "Payer's Account Number" Field.</li> <li>S: Displays "Special characters not allowed at Payer's Account Number field!" error message.</li> <li>A: Enters special characters at "Payee's Account Number" Field.</li> <li>S: Displays "Special characters not allowed at Payee's Account Number field!" error message.</li> <li>A: Enters special characters at "Amount" Field.</li> <li>S: Displays "Special characters not allowed at Amount field!" error message.</li> <li>A: Enters zero value at "Amount" Field.</li> <li>S: Displays "Zero amount value not allowed!" error message.</li> <li>A: Enters negative value at "Amount" Field.</li> <li>S: Displays "Negative amount value not allowed!" error message.</li> <li>A: Enters an Account Number at "Payer's Account Number" Field that is not associated with the user/customer.</li> <li>S: Displays "Source Account not associated with the user/customer!" error message.</li> <li>A: Clicks <reset> Button.</reset></li> </ul>		
S: Displays "Alphabetical characters not allowed at Payee's Account Number field!" error message.  6B A: Enters alphabetical characters at "Amount" Field. S: Displays "Alphabetical characters not allowed at Amount field!" error message.  4F A: Enters special characters at "Payer's Account Number" Field. S: Displays "Special characters not allowed at Payer's Account Number field!" error message.  5E A: Enters special characters at "Payee's Account Number" Field. S: Displays "Special characters not allowed at Payee's Account Number field!" error message.  6C A: Enters special characters at "Amount" Field. S: Displays "Special characters not allowed at Amount field!" error message.  6D A: Enters zero value at "Amount" Field. S: Displays "Zero amount value not allowed!" error message.  6E A: Enters negative value at "Amount" Field. S: Displays "Negative amount value not allowed!" error message.  4G A: Enters an Account Number at "Payer's Account Number" Field that is not associated with the user/customer. S: Displays "Source Account not associated with the user/customer!" error message.  8A A: Clicks <reset> Button.</reset>	5D	
message.  A: Enters alphabetical characters at "Amount" Field. S: Displays "Alphabetical characters not allowed at Amount field!" error message.  4F A: Enters special characters at "Payer's Account Number" Field. S: Displays "Special characters not allowed at Payer's Account Number field!" error message.  5E A: Enters special characters at "Payee's Account Number" Field. S: Displays "Special characters not allowed at Payee's Account Number field!" error message.  6C A: Enters special characters at "Amount" Field. S: Displays "Special characters not allowed at Amount field!" error message.  6D A: Enters zero value at "Amount" Field. S: Displays "Zero amount value not allowed!" error message.  6E A: Enters negative value at "Amount" Field. S: Displays "Negative amount value not allowed!" error message.  4G A: Enters an Account Number at "Payer's Account Number" Field that is not associated with the user/customer. S: Displays "Source Account not associated with the user/customer!" error message.  8A A: Clicks <reset> Button.</reset>	35	
6B A: Enters alphabetical characters at "Amount" Field. S: Displays "Alphabetical characters not allowed at Amount field!" error message.  4F A: Enters special characters at "Payer's Account Number" Field. S: Displays "Special characters not allowed at Payer's Account Number field!" error message.  5E A: Enters special characters at "Payee's Account Number" Field. S: Displays "Special characters not allowed at Payee's Account Number field!" error message.  6C A: Enters special characters at "Amount" Field. S: Displays "Special characters not allowed at Amount field!" error message.  6D A: Enters zero value at "Amount" Field. S: Displays "Zero amount value not allowed!" error message.  6E A: Enters negative value at "Amount" Field. S: Displays "Negative amount value not allowed!" error message.  4G A: Enters an Account Number at "Payer's Account Number" Field that is not associated with the user/customer. S: Displays "Source Account not associated with the user/customer!" error message.  8A A: Clicks <reset> Button.</reset>		
S: Displays "Alphabetical characters not allowed at Amount field!" error message.  4F A: Enters special characters at "Payer's Account Number" Field. S: Displays "Special characters not allowed at Payer's Account Number field!" error message.  5E A: Enters special characters at "Payee's Account Number" Field. S: Displays "Special characters not allowed at Payee's Account Number field!" error message.  6C A: Enters special characters at "Amount" Field. S: Displays "Special characters not allowed at Amount field!" error message.  6D A: Enters zero value at "Amount" Field. S: Displays "Zero amount value not allowed!" error message.  6E A: Enters negative value at "Amount" Field. S: Displays "Negative amount value not allowed!" error message.  4G A: Enters an Account Number at "Payer's Account Number" Field that is not associated with the user/customer. S: Displays "Source Account not associated with the user/customer!" error message.  8A A: Clicks <reset> Button.</reset>	6B	•
<ul> <li>A: Enters special characters at "Payer's Account Number" Field.</li> <li>S: Displays "Special characters not allowed at Payer's Account Number field!" error message.</li> <li>A: Enters special characters at "Payee's Account Number" Field.</li> <li>S: Displays "Special characters not allowed at Payee's Account Number field!" error message.</li> <li>A: Enters special characters at "Amount" Field.</li> <li>S: Displays "Special characters not allowed at Amount field!" error message.</li> <li>A: Enters zero value at "Amount" Field.</li> <li>S: Displays "Zero amount value not allowed!" error message.</li> <li>A: Enters negative value at "Amount" Field.</li> <li>S: Displays "Negative amount value not allowed!" error message.</li> <li>A: Enters an Account Number at "Payer's Account Number" Field that is not associated with the user/customer.</li> <li>S: Displays "Source Account not associated with the user/customer!" error message.</li> <li>A: Clicks <reset> Button.</reset></li> </ul>		
<ul> <li>A: Enters special characters at "Payee's Account Number" Field.</li> <li>S: Displays "Special characters not allowed at Payee's Account Number field!" error message.</li> <li>A: Enters special characters at "Amount" Field.</li> <li>S: Displays "Special characters not allowed at Amount field!" error message.</li> <li>A: Enters zero value at "Amount" Field.</li> <li>S: Displays "Zero amount value not allowed!" error message.</li> <li>A: Enters negative value at "Amount" Field.</li> <li>S: Displays "Negative amount value not allowed!" error message.</li> <li>A: Enters an Account Number at "Payer's Account Number" Field that is not associated with the user/customer.</li> <li>S: Displays "Source Account not associated with the user/customer!" error message.</li> <li>A: Clicks <reset> Button.</reset></li> </ul>	4F	
S: Displays "Special characters not allowed at Payee's Account Number field!" error message.  6C A: Enters special characters at "Amount" Field. S: Displays "Special characters not allowed at Amount field!" error message.  6D A: Enters zero value at "Amount" Field. S: Displays "Zero amount value not allowed!" error message.  6E A: Enters negative value at "Amount" Field. S: Displays "Negative amount value not allowed!" error message.  4G A: Enters an Account Number at "Payer's Account Number" Field that is not associated with the user/customer. S: Displays "Source Account not associated with the user/customer!" error message.  8A A: Clicks <reset> Button.</reset>		S: Displays "Special characters not allowed at Payer's Account Number field!" error message.
<ul> <li>A: Enters special characters at "Amount" Field.</li> <li>S: Displays "Special characters not allowed at Amount field!" error message.</li> <li>A: Enters zero value at "Amount" Field.</li> <li>S: Displays "Zero amount value not allowed!" error message.</li> <li>A: Enters negative value at "Amount" Field.</li> <li>S: Displays "Negative amount value not allowed!" error message.</li> <li>A: Enters an Account Number at "Payer's Account Number" Field that is not associated with the user/customer.</li> <li>S: Displays "Source Account not associated with the user/customer!" error message.</li> <li>A: Clicks <reset> Button.</reset></li> </ul>	5E	A: Enters special characters at "Payee's Account Number" Field.
S: Displays "Special characters not allowed at Amount field!" error message.  6D A: Enters zero value at "Amount" Field. S: Displays "Zero amount value not allowed!" error message.  6E A: Enters negative value at "Amount" Field. S: Displays "Negative amount value not allowed!" error message.  4G A: Enters an Account Number at "Payer's Account Number" Field that is not associated with the user/customer. S: Displays "Source Account not associated with the user/customer!" error message.  8A A: Clicks <reset> Button.</reset>		S: Displays "Special characters not allowed at Payee's Account Number field!" error message.
<ul> <li>A: Enters zero value at "Amount" Field.         S: Displays "Zero amount value not allowed!" error message.</li> <li>A: Enters negative value at "Amount" Field.         S: Displays "Negative amount value not allowed!" error message.</li> <li>A: Enters an Account Number at "Payer's Account Number" Field that is not associated with the user/customer.         S: Displays "Source Account not associated with the user/customer!" error message.</li> <li>A: Clicks <reset> Button.</reset></li> </ul>	6C	A: Enters special characters at "Amount" Field.
S: Displays "Zero amount value not allowed!" error message.  6E A: Enters negative value at "Amount" Field. S: Displays "Negative amount value not allowed!" error message.  4G A: Enters an Account Number at "Payer's Account Number" Field that is not associated with the user/customer. S: Displays "Source Account not associated with the user/customer!" error message.  8A A: Clicks <reset> Button.</reset>		S: Displays "Special characters not allowed at Amount field!" error message.
6E A: Enters negative value at "Amount" Field. S: Displays "Negative amount value not allowed!" error message.  4G A: Enters an Account Number at "Payer's Account Number" Field that is not associated with the user/customer. S: Displays "Source Account not associated with the user/customer!" error message.  8A A: Clicks <reset> Button.</reset>	6D	A: Enters zero value at "Amount" Field.
S: Displays "Negative amount value not allowed!" error message.  4G A: Enters an Account Number at "Payer's Account Number" Field that is not associated with the user/customer.  S: Displays "Source Account not associated with the user/customer!" error message.  8A A: Clicks <reset> Button.</reset>		S: Displays "Zero amount value not allowed!" error message.
A: Enters an Account Number at "Payer's Account Number" Field that is not associated with the user/customer.  S: Displays "Source Account not associated with the user/customer!" error message.  8A A: Clicks <reset> Button.</reset>	6E	A: Enters negative value at "Amount" Field.
the user/customer. S: Displays "Source Account not associated with the user/customer!" error message.  8A A: Clicks <reset> Button.</reset>		S: Displays "Negative amount value not allowed!" error message.
S: Displays "Source Account not associated with the user/customer!" error message.  8A A: Clicks <reset> Button.</reset>	4G	A: Enters an Account Number at "Payer's Account Number" Field that is not associated with
8A A: Clicks <reset> Button.</reset>		
S: Clears all fields of the Fund Transfer Module.	A8	
		S: Clears all fields of the Fund Transfer Module.

# O. RQ-15: Create a Mini Statement Module

#### 1. Main Scenario

Step	Description
1	A: Opens website from a Web Browser.
2	A: Logs in.
3	A: Opens Mini Statement.
4	A: Enters Account Number at "Account Number" Field.
5	A: Clicks <submit> Button.</submit>
6	S: Displays last five (5) transactions of the account.

Step	Description
4A	A: Enters an invalid Account Number at "Account Number" Field.
	S: Displays "Account Number not found!" error message.
4B	A: Leaves "Account Number" Field blank.
	S: Displays "Account Number field is mandatory!" error message.
4C	A: Enters alphabetical characters at "Account Number" Field.
	S: Displays "Alphabetical characters not allowed at Account Number field!" error message.
4D	A: Enters special characters at "Account Number" Field.
	S: Displays "Special characters not allowed at Account Number field!" error message.

4E	A: Enters an Account Number at "Account Number" Field that is not associated with the user/customer.  S: Displays "Account not associated with the user/customer!" error message.
5A	A: Clicks <reset> Button. S: Clears all fields of the Mini Statement Module.</reset>

# P. RQ-16: Create a Custom Statement Module

#### 1. Main Scenario

Step	Description
1	A: Opens website from a Web Browser.
2	A: Logs in.
3	A: Opens Customized Statement.
4	A: Enters Account Number at "Account Number" Field.
5	A: Sets date at "From Date" Field.
6	A: Sets date at "To Date" Field.
7	A: Enters amount at "Amount Lower Limit" Field.
8	A: Enters number of transactions at "Number of Transactions" Field.
9	A: Clicks <submit> Button.</submit>
10	S: Displays transactions of the Account based on filters set.

Step	Description
4A	A: Enters an invalid Account Number at "Account Number" Field.
	S: Displays "Account Number not found!" error message.
4B	A: Leaves "Account Number" Field blank.
	S: Displays "Account Number field is mandatory!" error message.
7A	A: Leaves "Account Lower Limit" Field blank.
	S: Displays "Account Lower Limit field is mandatory!" error message.
A8	A: Leaves "Number of Transaction" Field blank.
	S: Displays "Number of Transaction field is mandatory!" error message.
4C	A: Enters alphabetical characters at "Account Number" Field.
	S: Displays "Alphabetical characters not allowed at Account Number field!" error message.
5A	A: Leaves "From Date" Field blank.
	S: Starts report process records from earliest transaction performed in the account.
6A	A: Leaves "To Date" Field blank.
	S: Ends report process at the latest transaction performed in the account.
5B/6B	A: Leaves both "From Date" and "To Date" blank.
	S: Processes all records regardless of record date.
7B	A: Enters alphabetical characters at "Account Lower Limit" Field.
	S: Displays "Alphabetical characters not allowed at Account Lower Limit field!" error message.
8B	A: Enters alphabetical characters at "Number of Transaction" Field.
	S: Displays "Alphabetical characters not allowed at Number of Transaction field!" error
	message.
4D	A: Enters special characters at "Account Number" Field.
	S: Displays "Special characters not allowed at Account Number field!" error message.
7C	A: Enters special characters at "Account Lower Limit" Field.
	S: Displays "Special characters not allowed at Account Lower Limit field!" error message.
8C	A: Enters special characters at "Number of Transaction" Field.
	S: Displays "Special characters not allowed at Number of Transaction field!" error message.
4E	A: Enters an Account Number at "Account Number" Field that is not associated with the
	user/customer.
	S: Displays "Account not associated with the user/customer!" error message.
7D	A: Enters Zero value at "Amount Lower Limit" Field.
	S: Displays "Zero amount value not allowed at Amount Lower Limit field!" error message.

7E	A: Enters negative value at "Amount Lower Limit" Field. S: Displays "Negative amount value not allowed at Amount Lower Limit field!" error message.					
8D	A: Enters Zero value at "Number of Transaction" Field. S: Displays "Zero amount value not allowed at Number of Transaction field!" error message.					
8E	A: Enters negative value at "Number of Transaction" Field. S: Displays "Negative amount value not allowed at Number of Transaction field!" error message.					
9A	A: Clicks <reset> Button. S: Clears values at all Customized Statement Report Module fields.</reset>					

# 3 Appendices

# 3.1 Peer Review Issue Logs

Date Raised	Issue	Raised By	Responsible	Remarks	Status
8/16/2018	User Maintenance / Registration for Managers and Customers	Arnel L. Bagabagon Jr.	Krishna Rungta	There is no clear process as to how users can register users at the system. It was assumed that the system will have another separate module where users with Manager or Customer Role can be registered.	Open
8/16/2018	Manager and Customer Accounts Access	Arnel L. Bagabagon Jr.	Krishna Rungta	Just need to confirm the following:  Manager Users can only maintain the Customers and Accounts associated with them. The Manager - Customer - Account Association is achieved if said user is one that added the Customer / Account to the system  Customer Users can only maintain Accounts associated with them. Customer - Account Association is achieved if Account is added to the Customer.	Open
8/16/2018	Orphaned Transactions if Deleted Customers and Accounts	Arnel L. Bagabagon Jr.	Krishna Rungta	There is an option to delete Customer and Account records but it is unclear what will happen to the transactions. It is assumed then that the transactions will be retained from the records and will be orphaned. This not recommended and should just disable the Customer or Account so tracking of records won't be an issue.	Open