

Functional Requirements Specification Version 1.0

BANK OF PENNSYLVANIA, U.S.A



Document Name	Version #	Start Date	Prepared By	Reviewed By	Modified Date	Present Status
Bank of Pennsylvania Functional_Doc_1.0	1.0.1	04/1/17				Under Development

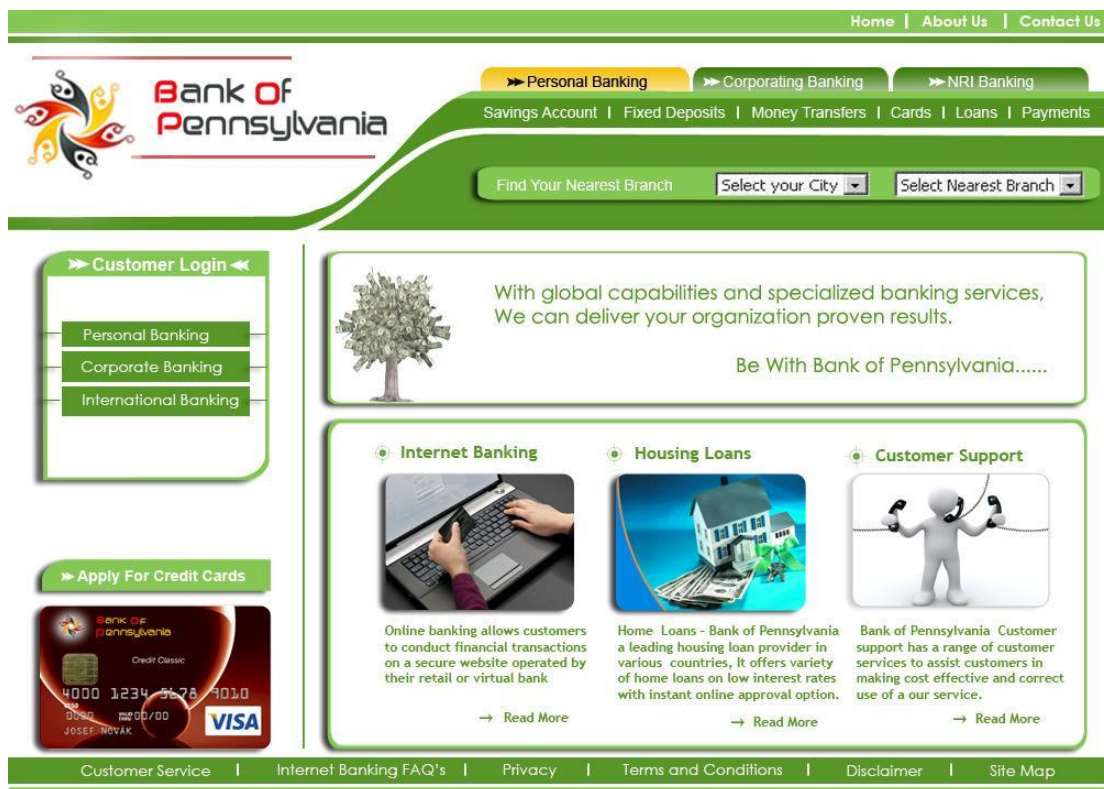
1.0 Bank of Pennsylvania Home Page

1.1 Bank of Pennsylvania Home

1.1.1 Overview

Bank of Pennsylvania Home page allows various customers (Individual customers, corporate customers, International Customers) to login and access the application for further usage and also it provides information about various services offered by Bank of Pennsylvania.

1.1.2 Prototype – Bank of Pennsylvania Home Page

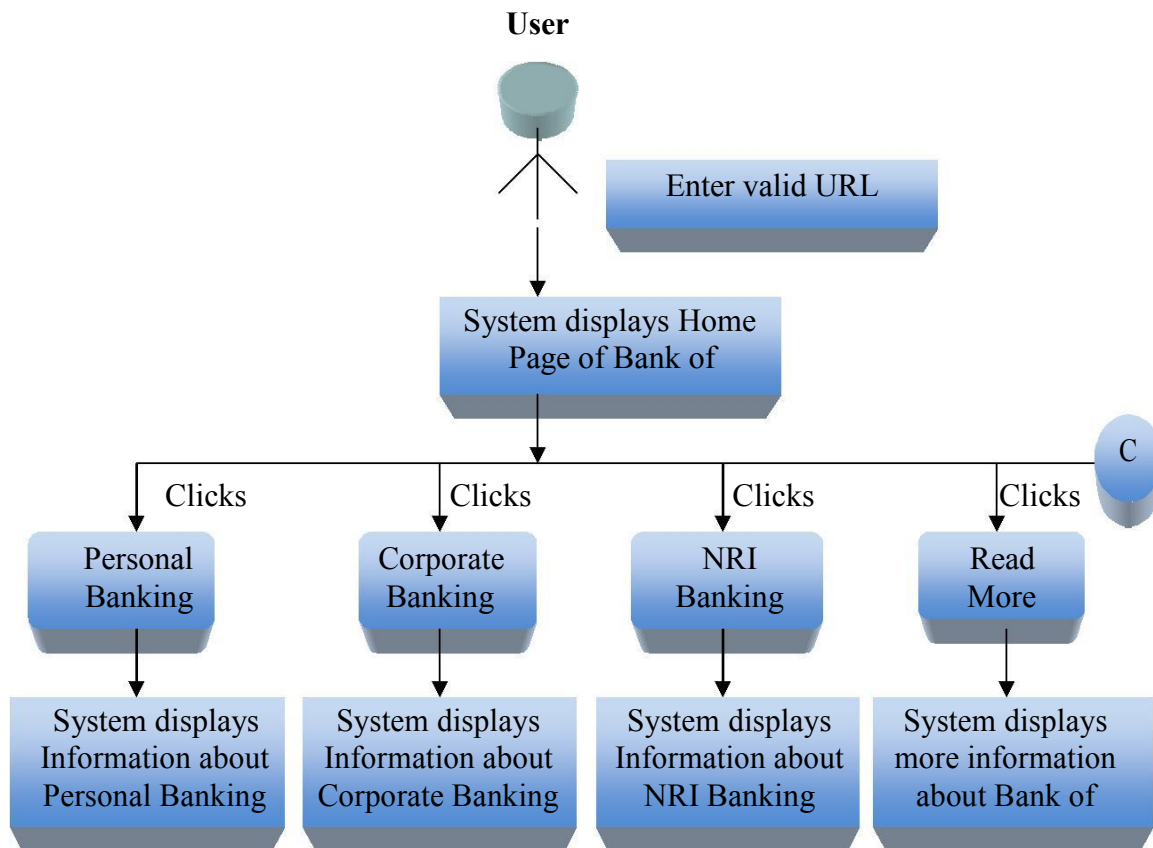


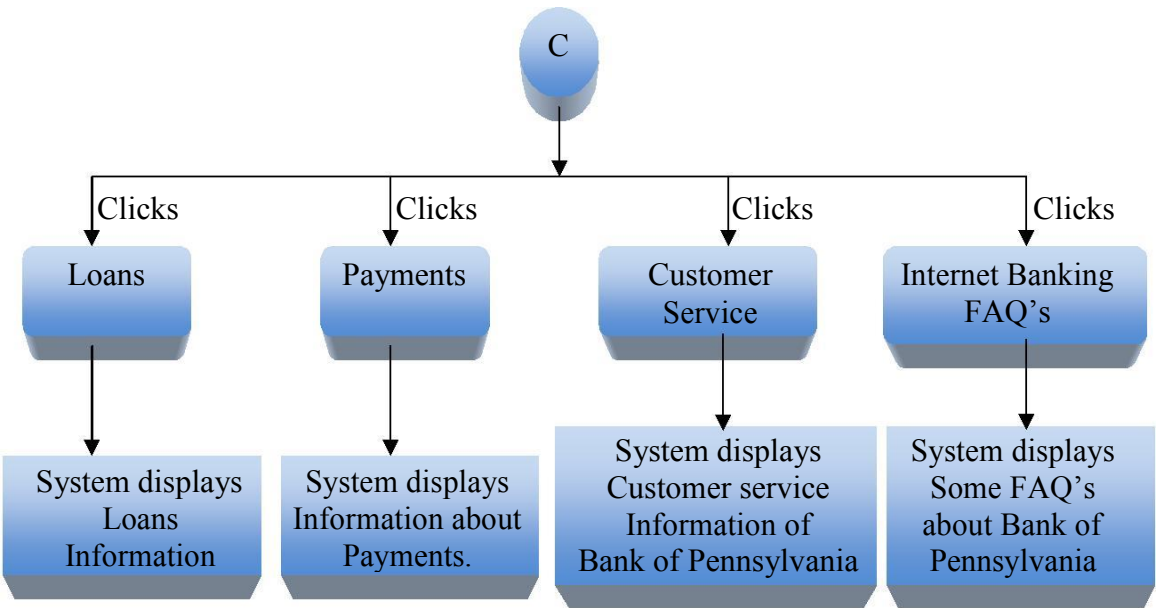
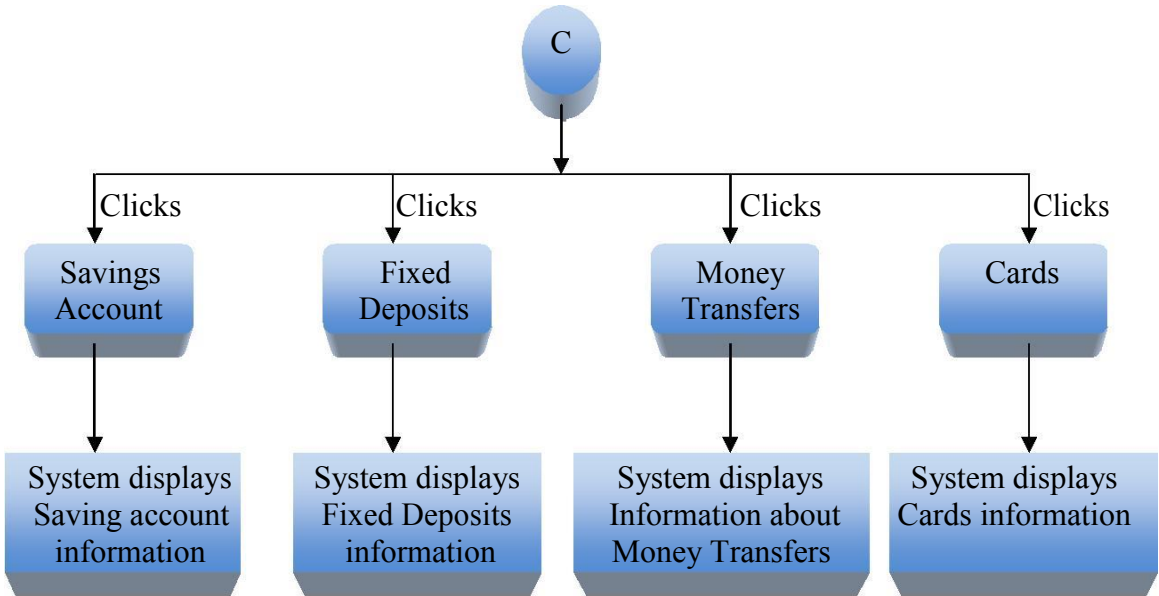
1.1.3 Elements of Bank of Pennsylvania Home Page

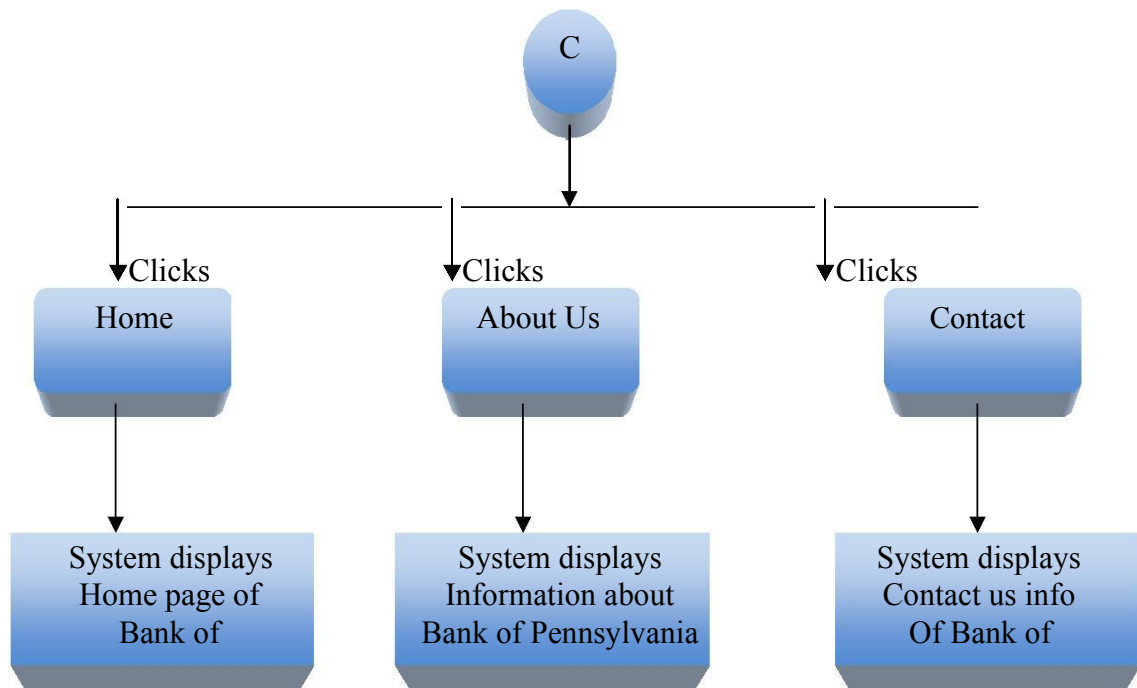
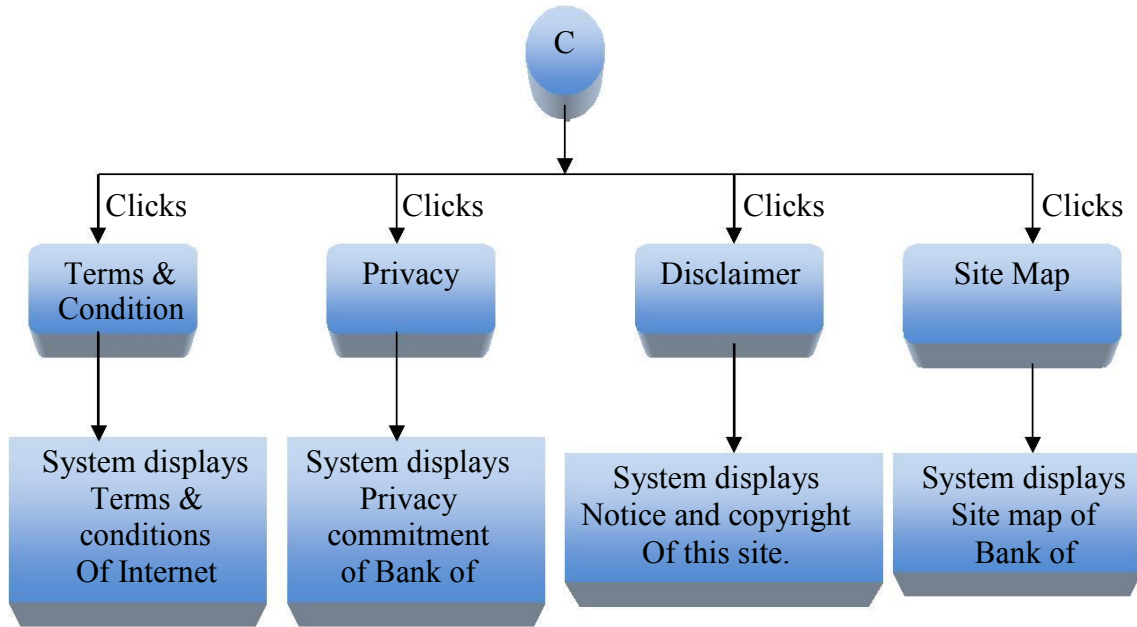
Element Name	Element Type	User Action	System Response
Personal Banking	Tab/Image	Click	System displays Personal Banking information.
Corporate Banking	Tab/Image	Click	System displays Corporate Banking information.
NRI Banking	Tab/Image	Click	System displays NRI Banking information
Savings Account	Tab/Image	Click	System displays information about Savings Account.
Fixed Deposits	Tab/Image	Click	System displays information about Fixed Deposits.
Money Transfers	Tab/Image	Click	System displays information about Money/Fund Transfer.
Cards	Tab/Image	Click	System displays information about various Cards (Debit Cards, Credit Cards etc).
Loans	Tab/Image	Click	System displays information about different loans (Gold Loan, Car Loan etc...)
Payments	Tab/Image	Click	System displays information about different payments (Water bill etc...)
User Information Links			
Customer Service	Link	Click	System displays information about customer services.
Internet Banking FAQ's	Link	Click	System displays different banking faq's information.
Privacy	Link	Click	System displays information about Bank of Pennsylvania Bank Privacy.
Terms and Conditions	Link	Click	System displays information about terms and conditions of Bank of Pennsylvania.
Disclaimer	Link	Click	System displays notice and copyright of the site.
Site map	Link	Click	System displays site route information of Bank of Pennsylvania.
Contact	Link	Click	System displays Contact Address of Bank of Pennsylvania.
About Us	Link	Click	System displays information about Bank of Pennsylvania.

Home	Link	Click	System displays Bank of Pennsylvania home page.
Customer Images			
Personal	Image	Click	System displays login page of Personal Customer.
Corporate	Image	Click	System displays login page of Corporate Customer.
International	Image	Click	System displays login page of International Customer.

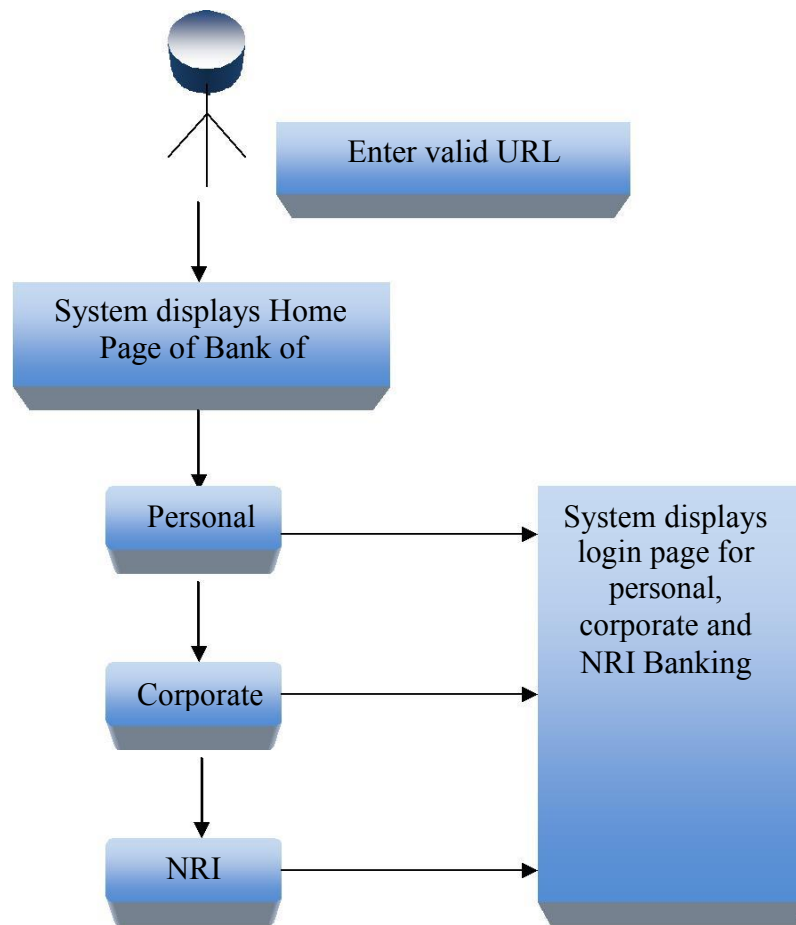
1.1.4 Bank of Pennsylvania Home Page Task Flow diagram







1.1.5 Bank of Pennsylvania Customers Task Flow diagram



1.1.6 Bank of Pennsylvania Home Use Cases

Actors Action	System Response
1. Actor enters valid URL of Bank of Pennsylvania.	System displays home of Bank of Pennsylvania.
2. Actor clicks Personal Banking.	System displays Personal Banking information.
3. Actor clicks Corporate Banking.	System displays Corporate Banking information.
4. Actor clicks NRI Banking.	System displays NRI Banking information
5. Actor clicks Savings Account.	System displays information about Savings Account.
6. Actor clicks Fixed Deposits.	System displays information about Fixed Deposits.
7. Actor clicks Money Transfers.	System displays information about Money/Fund

	Transfer.
8. Actor clicks Cards.	System displays information about various Cards (Debit Cards, Credit Cards etc).
9. Actor clicks Loans.	System displays information about different loans (Gold Loan, Car Loan etc...)
10. Actor clicks Payments	System displays information about different payment (Water bill etc...)
11. Customer Service	System displays information about customer services.
12. Internet Banking FAQ's	System displays different banking faq's information.
13. Privacy	System displays information about Bank of Pennsylvania Privacy.
14. Terms and Conditions	System displays information about terms and conditions of Bank of Pennsylvania.
15. Disclaimer	System displays notice and copyright of the site.
16. Site map	System displays site route information of Bank of Pennsylvania.
17. Contact	System displays Contact Address of Bank of Pennsylvania.
18. About Us	System displays information about Bank of Pennsylvania.
19. Home	System displays Bank of Pennsylvania home page.

1.1.7 Bank of Pennsylvania Customers Use Cases

Actors Action	System Response
1. Actor enters valid URL of Bank of Pennsylvania.	System displays home of Bank of Pennsylvania.
2. Actor clicks Personal image	System displays login page of Personal Customer.
3. Actor clicks Corporate image	System displays login page of Corporate Customer.
4. Actor clicks International image	System displays login page of International/NRI Customer.

2.0 Bank of Pennsylvania Customer Login

2.1 Bank of Pennsylvania Customers Login Overview

Bank of Pennsylvania customer's login page allows personal customers, corporate customers, International Customers to login and access the application.

2.2 Prototype – Personal/Corporate/NRI Customer Login Page

Home | About Us | Contact Us

Bank of Pennsylvania

News

The Bank of Pennsylvania was established on July 17, 1780, by Philadelphia merchants to provide funds for the Army during the American Revolutionary War. Within a year after the Union was founded in 1781, the Bank of North America superseded the Bank of Pennsylvania.

Already a member Login

User Name

Password

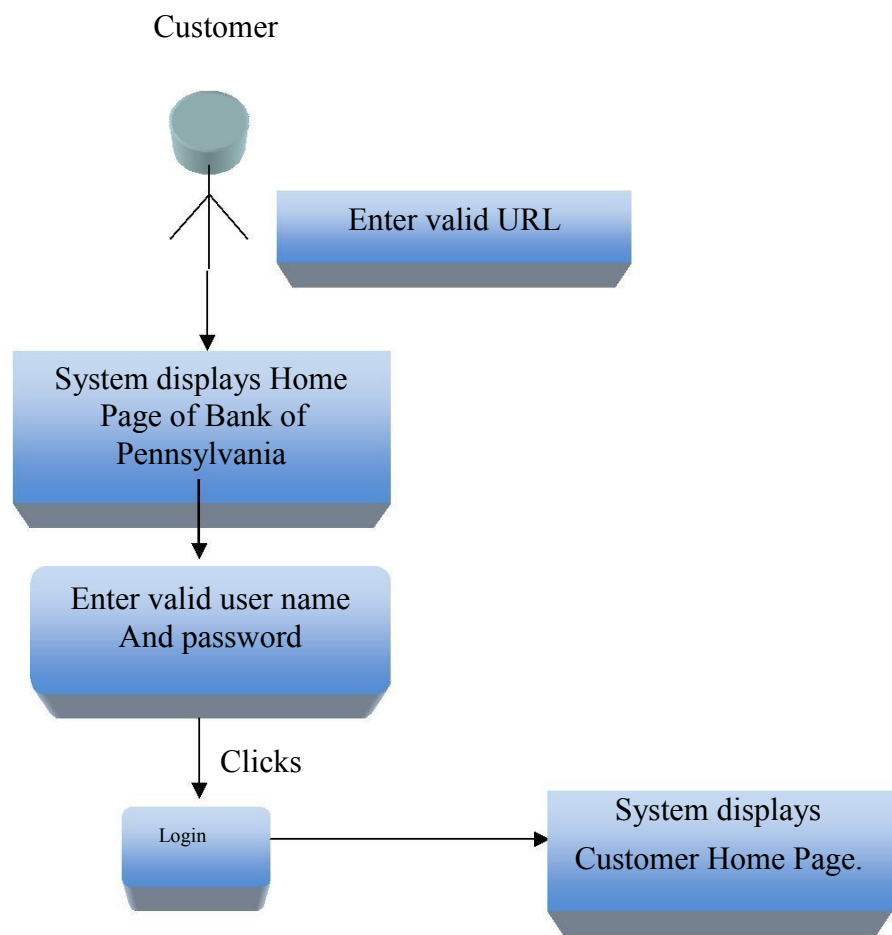
Login

Customer Service | Internet BankingFAQ's | Privacy | Terms and Conditions | Disclaimer | Site Map

2.3 Elements of Personal/Corporate/NRI Customer Login Page

Element Name	Element Type	User Action	System Response
User Name	Edit Box	Enter	System accepts the data
Password	Edit Box	Enter	System accepts the data
Login	Image	Click	<ol style="list-style-type: none"> 1. If data is valid: System displays Customer Home Page. 2. If data is invalid: System displays error message.

2.4 Personal/Corporate/NRI Customer Login Task Flow diagram



2.5 Personal/Corporate/NRI Customer Login Use Cases

Actors Action	System Response
1. Actor enters Valid URL of Bank of Pennsylvania.	System displays home of Bank of Pennsylvania.
2. Actor enters User Name.	System accepts
3. Actor enters Password.	System accepts
4. Actor clicks on Login.	1. If valid: System displays Customer Home Page. 2. If invalid: System displays error message.

2.6 Input Validations & Error States

Element Name	Valid Data	Error State
User Name	1. Mandatory 2. Min of 4 char 3. Max of 16 char	If Blank/Invalid- "Enter a Valid User Name"
Password	1. Mandatory 2. Min of 4 char 3. Max of 16 char	If Blank/Invalid- "Enter valid Password"
If user login failed then system should display a popup error message.		

3.0 Administrator Login

3.1 Administrator Login - Overview

This page allows administrator to login and create master data such as Branches, Roles, Users and Employees related to Bank of Pennsylvania.

3.2 Prototype - Administrator Login

[Home](#) | [About Us](#) | [Contact Us](#)


Bank of Pennsylvania

[» News «](#)

The Bank of Pennsylvania was established on July 17, 1780, by Philadelphia merchants to provide funds for the Army during the American Revolutionary War. Within a year after the Union was founded in 1781, the Bank of North America superseded the Bank of Pennsylvania.

LOGIN



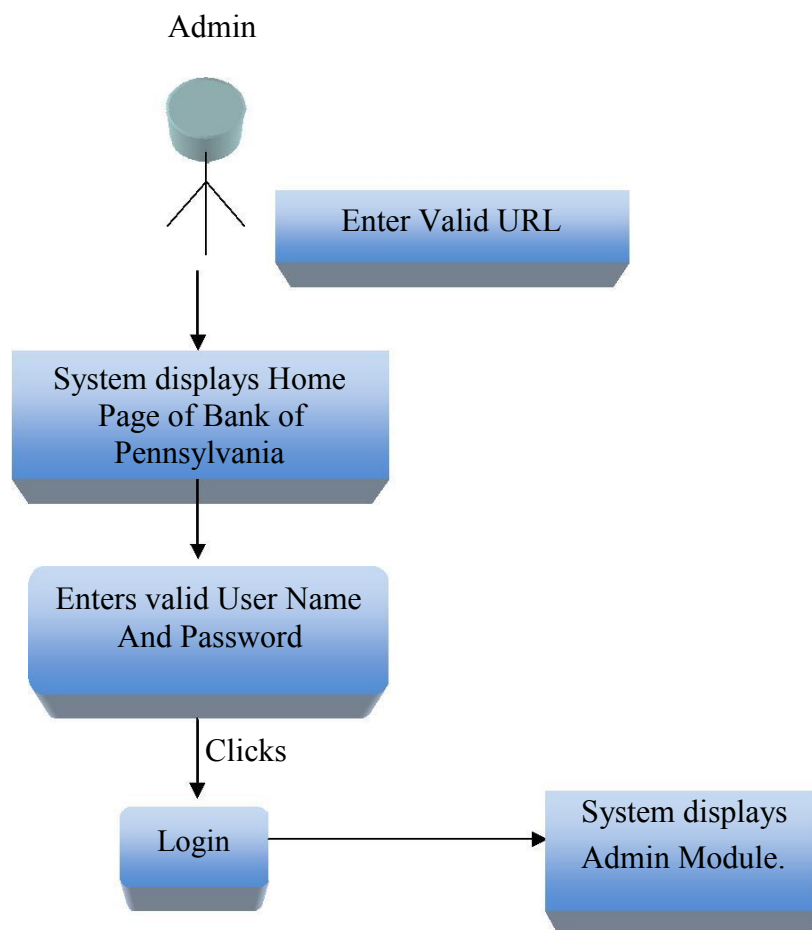
User Name
Password

[Customer Service](#) | [Internet BankingFAQ's](#) | [Privacy](#) | [Terms and Conditions](#) | [Disclaimer](#) | [Site Map](#)

3.3 Elements of Administrator Login

Element Name	Element Type	User Action	System Response
User Name	Edit Box	Enter	System accepts the data
Password	Edit Box	Enter	System accepts the data
Login	Image	Click	<ol style="list-style-type: none"> 1. If valid: System displays Customer Home Page. 2. If invalid: System displays error message.

3.4 Administrator Login Task Flow diagram



3.5 Administrator Login Use Cases

Actors Action	System Response
1. Actor enters Valid URL of Bank of Pennsylvania Administrator.	System displays login page of Bank of Pennsylvania Administrator.
2. Actor enters User Name.	System accepts
3. Actor enters Password.	System accepts
4. Actor clicks on Login.	1. If valid: System displays Administrator Home Page. 2. If invalid: System displays error message.

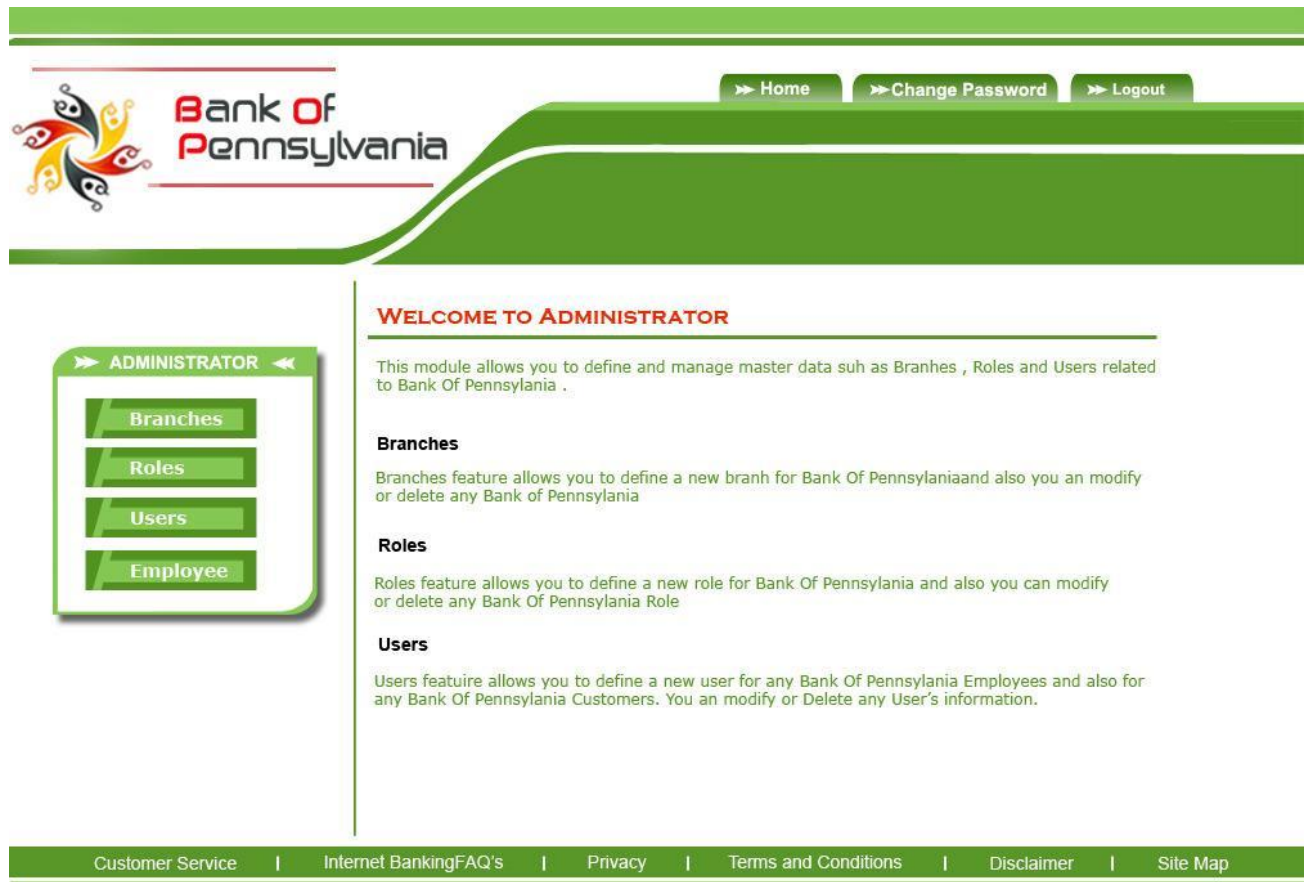
3.6 Input Validations & Error States

Element Name	Valid Data	Error State
User Name	1. Mandatory 2. Min of 4 char 3. Max of 16 char	If Blank/Invalid- "Enter a Valid User Name"
Password	1. Mandatory 2. Min of 4 char 3. Max of 16 char	If Blank/Invalid- "Enter valid Password"
If user login failed then system should display a popup error message.		

4.0 Administrator Home

This page allows administrator to create and manage master data such as Branches, Roles, Users and Employees.

4.1 Prototype - Administrator Home

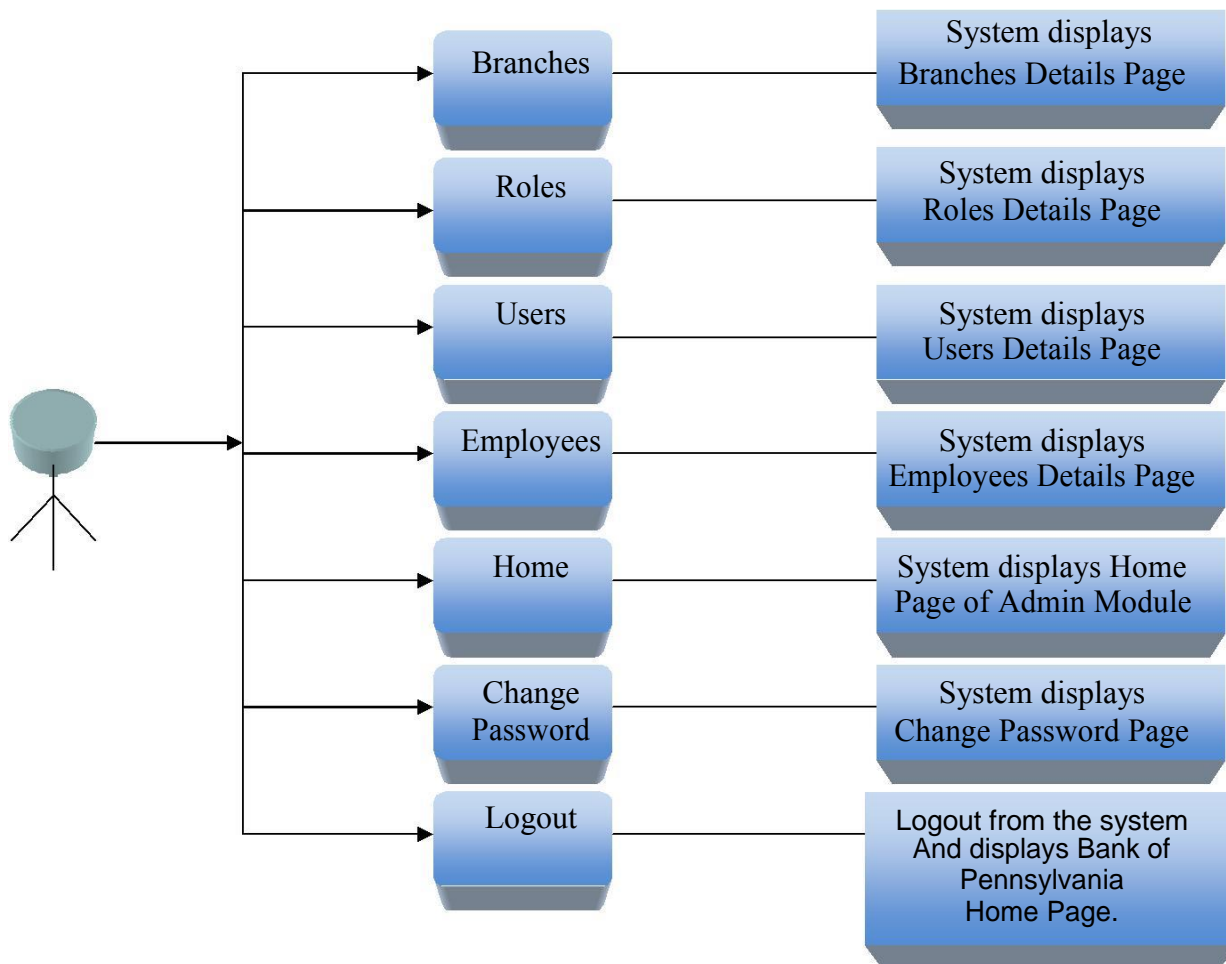


4.2 Elements of Administrator Home

Element Name	Element Type	User Action	System Response
Branches	Button	Click	System displays Branch Details page.
Roles	Button	Click	System displays Role Details page.

Users	Button	Click	System displays User Details page.
Employees	Button	Click	System displays Employee Details page.
Home	Button	Click	System displays Administrator Home page.
Change Password	Button	Click	System displays Administrator Change Password page.
Logout	Button	Click	System will logout from Administrator section and displays the Administrator login page.

4.3 Administrator Home Task Flow Diagram



4.4 Administrator Home Use Cases

Actors Action	System Response
1. Actor clicks Branches	System displays Branches Details page.
2. Actor clicks Roles	System displays Roles Details page.
3. Actor clicks Users	System displays User Details page.
4. Actor clicks Employees	System displays Employees Details page.
5. Actor clicks Home	System displays Administrator Home Page.
6. Actor clicks Change Password	System displays Administrator Change Password page.
7. Actor clicks Logout	Current session will be closed and system displays Bank of Pennsylvania Administrator login page.


5.0 Branches

5.1 Branch Details

5.1.1 Overview

Branches feature allows to define a new branch modify or delete any Bank of Pennsylvania branches and also can search for branches.

5.1.2 Prototype – Branch Details Page



[Home](#)
[New Branch](#)
[Change Password](#)
[Logout](#)

Welcome to Administrator

[ADMINISTRATOR](#)

- Branches
- Roles
- Users
- Employee

Country State City

Branch Details

BranchId	BranchName	Adress	Area	City	State	Update	Delete
1	SR Nagar	1st floor	Opp station	Hyderabad	A P		
2	Koti	3rd floor	Gokulchat	Hyderabad	A P		
3	Kompally	Ground floor	Nsr Nagar	Hyderabad	A P		
4	Kukat Pally	2nd floor	Opp CMR	Hyderabad	A P		
5	Yousaf Guda	3rd floor	Checkpost	Hyderabad	A P		
6	Ameerpet	4th floor	RS Brothers	Hyderabad	A P		
7	Bharat Nagar	5th floor	VV Hospital	Hyderabad	A P		

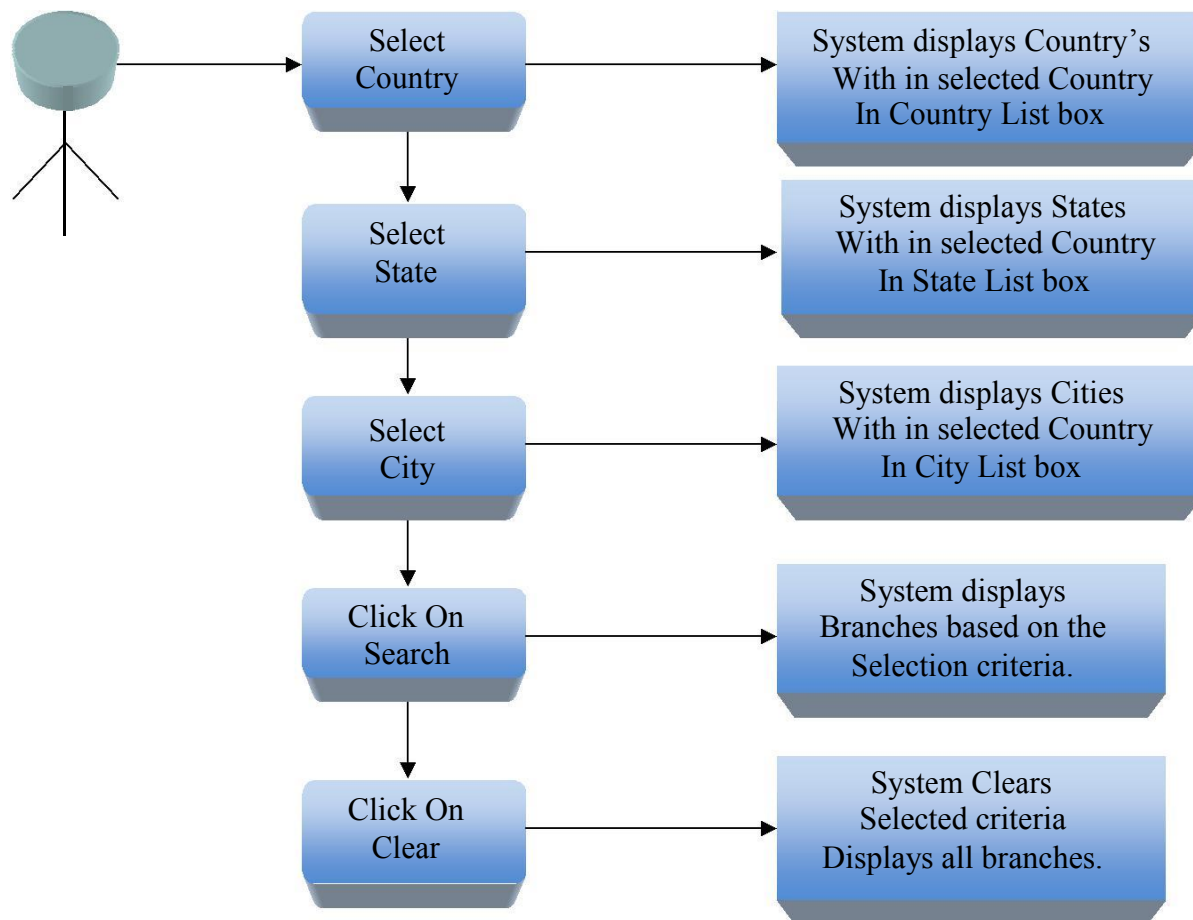
1 2 3 4 5 ►

[Customer Service](#) |
 [Internet BankingFAQ's](#) |
 [Privacy](#) |
 [Terms and Conditions](#) |
 [Disclaimer](#) |
 [Site Map](#)

5.1.3 Elements of Branch Details Page

Element Name	Element Type	User Action	System Response
Branch Search			
Country	List box	Select	System accepts, page get refresh and corresponding states should display in State list box.
State	List box	Select	System accepts, page get refresh and corresponding cities should display in City list box.
City	List box	Select	System accepts
Search	Button	Click	As per selection criteria system displays the branches in the branch details table.
Clear	Button	Click	System clears the selection criteria and displays all the branches in the branch details table.
New Branch	Button	Click	System displays the New Branch Entry page.
Branches Details Table			
Branch Id	Table Element	Read Only	Branch Ids should display
Branch Name	Table Element	Read Only	Branch Names should display
Address	Table Element	Read Only	Address1 should display
Area	Table Element	Read Only	Areas should display
City	Table Element	Read Only	Cities should display
State	Table Element	Read Only	States should display
Edit	Link	Click	System displays the Branch Update page.
Delete	Link	Click	System displays the branch deletion confirmation message.
Page Link(s)	Link	Click	System displays the respective page with records.

5.1.4 Task Flow Diagram for Branch Search



5.1.5 Use Cases for Branch Search

Actors Action	System Response
1. Actor enters Valid URL of Bank of Pennsylvania Administrator.	System displays login page of Bank of Pennsylvania Administrator.
2. Actor enters valid user name and password and click on login.	System displays Administrator module.
3. Actor clicks on Branches	System displays Branch Details page.
4. Actor selects required criteria of Country/State/City and clicks on Search.	System displays only the branches matching the selected criteria.
5. Actor clicks on Clear.	System clears the given search criteria and all branches will be displayed.

5.2 New Branch Creation

5.2.1 Overview

This feature allows Bank of Pennsylvania Administrator to create a New Branch for Bank of Pennsylvania.

5.2.2 Prototype – New Branch Entry Page

The prototype shows a web interface for the Bank of Pennsylvania Administrator. At the top, there is a green header bar with the Bank of Pennsylvania logo on the left and navigation links (Home, Change Password, Logout) on the right. Below the header, the main content area is divided into two sections. On the left, a 'Welcome to Administrator' message is followed by a sidebar menu with buttons for 'ADMINISTRATOR', 'Branches', 'Roles', 'Users', and 'Employee'. The 'Branches' button is highlighted. On the right, the 'New Branch Entry' form is displayed. This form contains several input fields: 'Branch Name' (text), 'Address 1' (text), 'Address 2' (text), 'Address 3' (text), 'Area' (text), 'Zip Code' (text), 'Country' (dropdown), 'State' (dropdown), and 'City' (dropdown). Each field is marked with an asterisk (*). At the bottom of the form are three buttons: 'Submit' (with a green arrow icon), 'Reset' (with a green circular arrow icon), and 'Cancel' (with a green 'X' icon). A footer bar at the bottom of the page contains links for 'Customer Service', 'Internet BankingFAQ's', 'Privacy', 'Terms and Conditions', 'Disclaimer', and 'Site Map'.

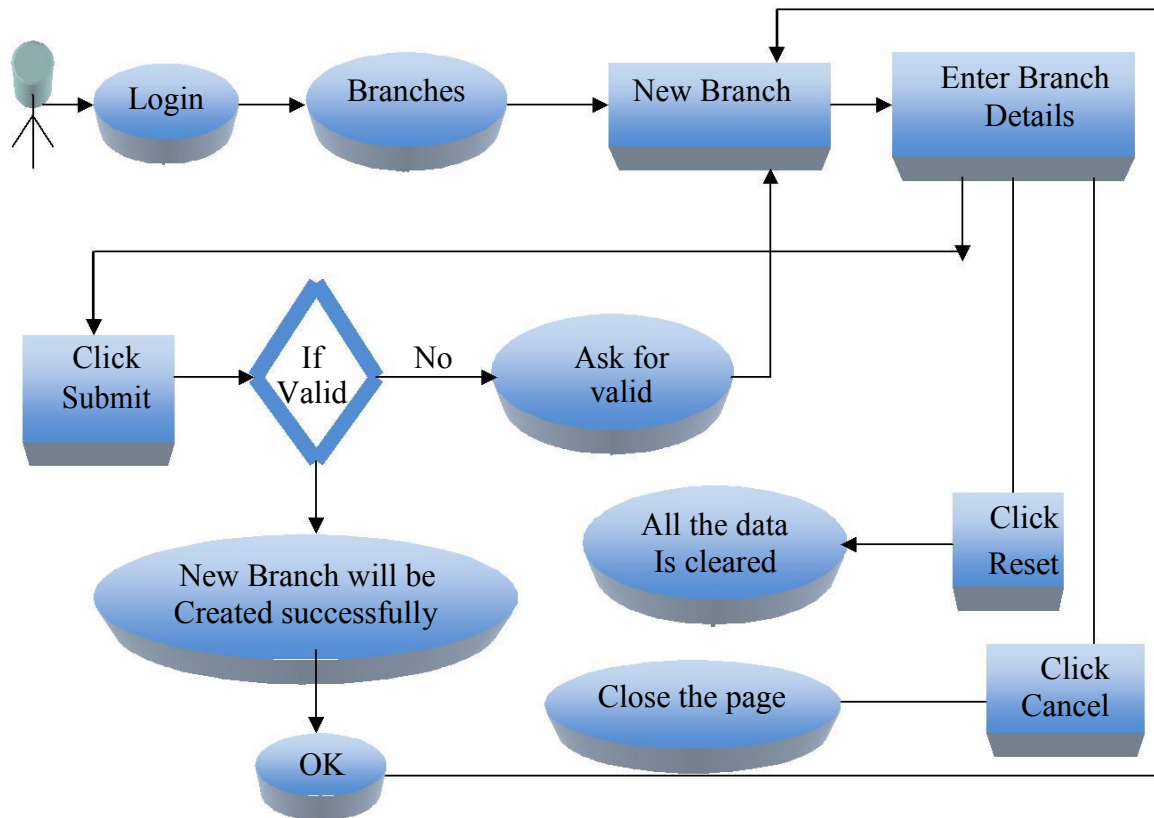
5.2.3 Page Elements

Element Name	Element Type	User Action	System Response
Branch Name	Edit box	Enter/Edit	<ol style="list-style-type: none"> 1. If Blank – “Please fill in the following fields – Branch Name” 2. If Invalid Chars- “This field should be alphanumeric starts with an alphabet” 3. If Invalid Range- “This field should be with in 6 - 40 chars range. 4. If Duplicate- “This branch already exists”
Address1	Edit box	Enter/Edit	<ol style="list-style-type: none"> 1. If Blank – “Please fill in the following fields – Address1” 2. If Invalid Range- “This field should be with in 4 - 50 chars range.
Address2	Edit box	Enter/Edit	<ol style="list-style-type: none"> 1. If Invalid Length- “This field accepts a maximum of 50 Chars.
Address3	Edit box	Enter/Edit	<ol style="list-style-type: none"> 1. If Invalid Length- “This field accepts a maximum of 50 Chars.
Area	Edit box	Enter/Edit	<ol style="list-style-type: none"> 1. If Invalid Length- “This field accepts a maximum of 50 Chars.
Zip code	Edit box	Enter/Edit	<ol style="list-style-type: none"> 1. If Blank – “Please fill in the following fields – Zip” 2. If Invalid Chars- “This field should be numeric” 3. If Invalid Range- “It should be 5 chars in length”
Country	List box	Select an in-built country	System should accept and page should get refresh, corresponding states should display in State List box.
State	List box	Select an in-built state	System should accept and page should get refresh, corresponding cities should display in City List box.
City	List box	Select an in-built city	System should accept
Submit	Button	Click	If user entered valid data then system should create a new branch successfully. And created branch should display in Branch Details page.
Reset	Button	Click	System should clear all the fields.
Cancel	Button	Click	System should cancel the new branch creation and redirect to the Branch Details page.

5.2.4 Input Validations & Error States

Element Name	Valid Data	Error State
Branch Name	<ol style="list-style-type: none"> 1. Alphanumeric only 2. Start with alphabet 3. Min of 6 Chars 4. Max of 40 Chars 5. Mandatory 6. Unique 	<input type="checkbox"/> Blank – “Please fill in the following fields – Branch Name” <input type="checkbox"/> Invalid Chars- “This field should be alphanumeric starts with an alphabet” <input type="checkbox"/> Invalid Range- “This field should be with in 6 - 40 chars range.” <input type="checkbox"/> Duplicate- “This branch already exists”
Address1	<ol style="list-style-type: none"> 1. Alphanumeric and special Chars. 2. Mandatory 3. Min of 4 chars. 4. Max of 50 chars. 	<input type="checkbox"/> Blank – “Please fill in the following fields – Address1” <input type="checkbox"/> Invalid Range- “This field should be with in 4 - 50 chars range.”
Address2	<ol style="list-style-type: none"> 1. Alphanumeric and special Chars. 2. Max of 50 Chars. 	<input type="checkbox"/> Invalid Length- “This field accepts a maximum of 50 Chars.”
Address3	<ol style="list-style-type: none"> 1. Alphanumeric and special Chars. 2. Max of 50 Chars. 	<input type="checkbox"/> Invalid Length- “This field accepts a maximum of 50 Chars.”
Area	<ol style="list-style-type: none"> 1. Alphanumeric and special Chars. 2. Should start with alphabet. 3. Max of 50 Chars. 	<input type="checkbox"/> Invalid Length- “This field accepts a maximum of 50 Chars.”
Zip	<ol style="list-style-type: none"> 1. Numeric Only 2. It should be 5 Chars 3. Mandatory 	<input type="checkbox"/> Blank – “Please fill in the following fields – Zip” <input type="checkbox"/> Invalid Chars- “This field should be numeric” <input type="checkbox"/> Invalid Range- “It should be 5 chars in length”
Country	<ol style="list-style-type: none"> 1. Mandatory 2. Select a Country 	<input type="checkbox"/> Blank – “Please fill in the following fields – Country”
State	<ol style="list-style-type: none"> 1. Mandatory 2. Select a State 	<input type="checkbox"/> Blank – “Please fill in the following fields – State”
City	<ol style="list-style-type: none"> 1. Mandatory 2. Select a City 	<input type="checkbox"/> Blank – “Please fill in the following fields – City”

5.2.5 Task Flow Diagram



5.2.6 Use Cases for New Branch

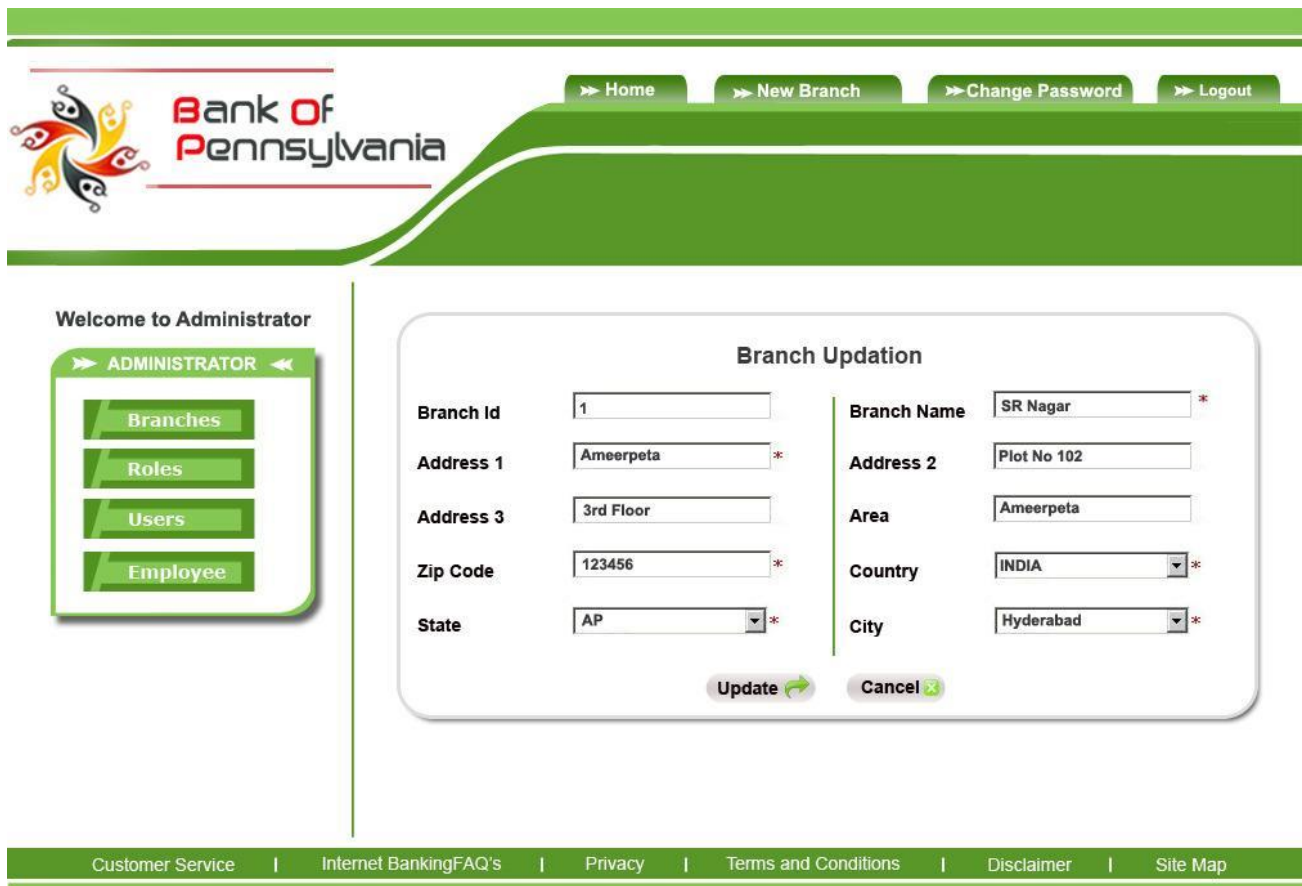
Actors Action	System Response
1. Actor enters Valid URL of Bank of Pennsylvania Administrator.	System displays login page of Bank of Pennsylvania Administrator.
2. Actor enters valid user name and password and click on login.	System displays Administrator module.
3. Actor clicks on Branches	System displays Branch Details page.
4. Actor clicks New Branch	System displays New Branch Entry Page.
5. Actor Enters necessary fields with valid data and clicks Submit.	System displays a message "New Branch Created successfully with Branch ID" with "Ok" Button
6. Actor enters necessary fields with valid data and clicks Reset.	System clears all the fields.
7. Actor clicks Cancel.	System should cancel the new branch creation and redirect to the Branch Details page.

5.3 Branch Update

5.3.1 Overview

This feature allows Administrator to modify the details of a Bank of Pennsylvania Branch.

5.3.2 Prototype – Branch Updation Page



The image shows a web application prototype for the Bank of Pennsylvania. The header features the bank's logo and a navigation bar with links: Home, New Branch, Change Password, and Logout. The main content area is titled 'Welcome to Administrator' and includes a sidebar with a menu for 'ADMINISTRATOR' containing 'Branches', 'Roles', 'Users', and 'Employee'. The central focus is the 'Branch Updation' form, which contains the following fields:

Branch Updation	
Branch Id	1
Address 1	Ameerpet
Address 3	3rd Floor
Zip Code	123456
State	AP
Branch Name	SR Nagar
Address 2	Plot No 102
Area	Ameerpet
Country	INDIA
City	Hyderabad

At the bottom of the form are 'Update' and 'Cancel' buttons. The footer contains links for Customer Service, Internet BankingFAQ's, Privacy, Terms and Conditions, Disclaimer, and Site Map.

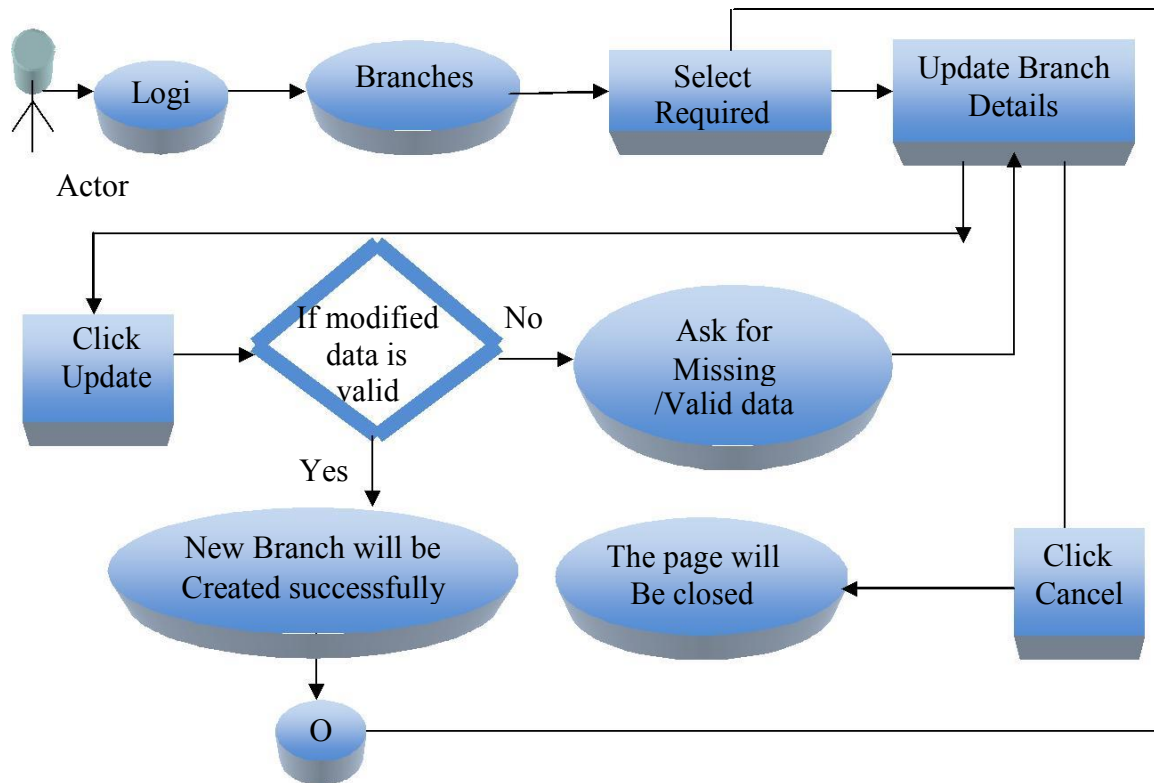
5.3.3 Page Elements

Element Name	Element Type	User Action	System Response
Branch Id	Auto Display, Read Only	N/A	N/A
Branch Name	Edit box	Enter/Edit	<ol style="list-style-type: none"> 1. If Blank – “Please fill in the following fields – Branch Name” 2. If Invalid Chars- “This field should be alphanumeric starts with an alphabet” 3. If Invalid Range- “This field should be with in 6 - 40 chars range. 4. If Duplicate- “This branch already exists”
Address1	Edit box	Enter/Edit	<ol style="list-style-type: none"> 1. If Blank – “Please fill in the following fields – Address1” 2. If Invalid Range- “This field should be with in 4 - 50 chars range.
Address2	Edit box	Enter/Edit	<ol style="list-style-type: none"> 1. If Invalid Length- “This field accepts a maximum of 50 Chars.
Address3	Edit box	Enter/Edit	<ol style="list-style-type: none"> 1. If Invalid Length- “This field accepts a maximum of 50 Chars.
Area	Edit box	Enter/Edit	<ol style="list-style-type: none"> 1. If Invalid Length- “This field accepts a maximum of 50 Chars.
Zip code	Edit box	Enter/Edit	<ol style="list-style-type: none"> 1. If Blank – “Please fill in the following fields – Zip” 2. If Invalid Chars- “This field should be numeric” 3. If Invalid Range- “It should be 5 chars in length”
State	List box	Select an in-built state	System should accept and page should get refresh, corresponding cities should display in City List box.
City	List box	Select an in-built city	System should accept
Update	Button	Click	System should Update the fields.
Cancel	Button	Click	System should redirect to the Branch Details page.

5.3.4 Input Validations & Error States

Refer 5.2.4

5.3.5 Task Flow Diagram



5.3.6 Use Cases for Branch Update

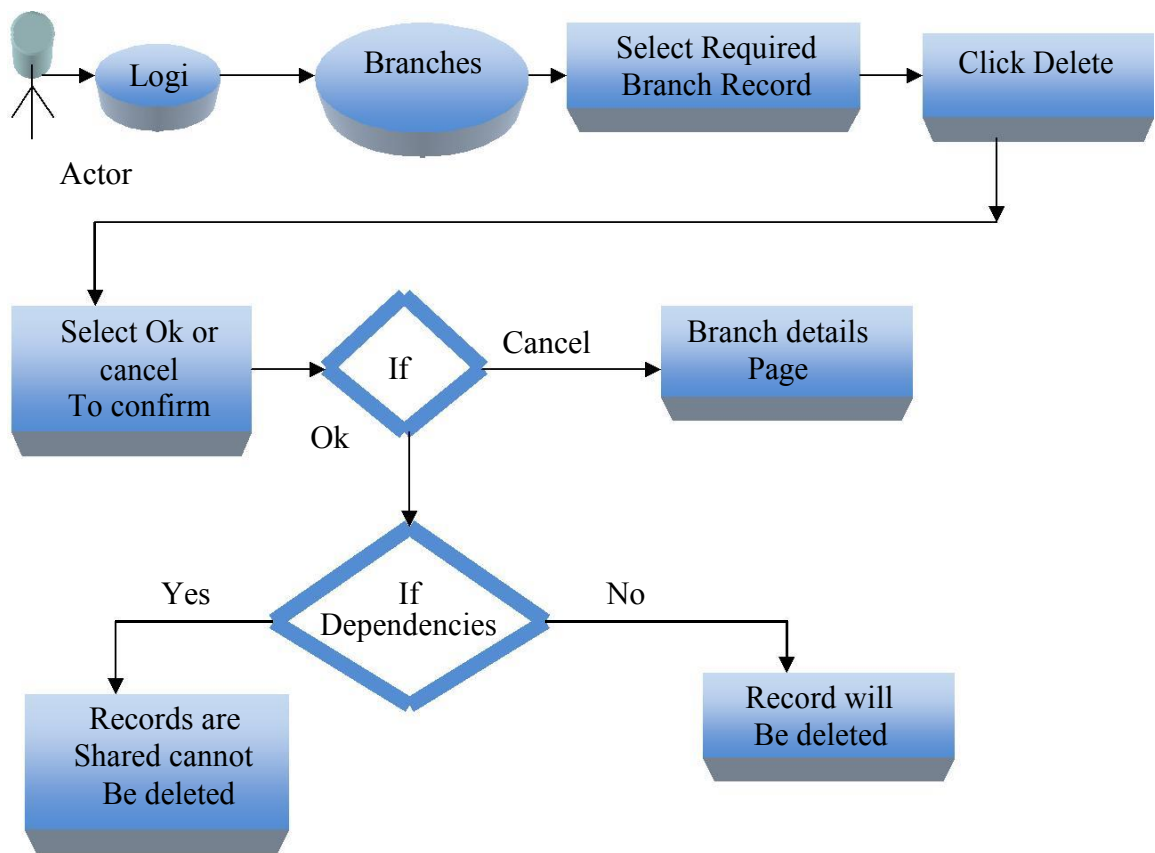
Actors Action	System Response
1. Actor enters Valid URL of Bank of Pennsylvania Administrator.	System displays login page of Bank of Pennsylvania Administrator.
2. Actor enters valid user name and password and click on login.	System displays Administrator module.
3. Actor clicks on Branches	System displays Branch Details page.
4. Actor click Edit for any branch	System displays Branch Update page.
5. Actor modifies necessary fields with valid data and clicks Update.	System displays a message "Branch Updated Successfully"
6. Actor clicks Cancel.	System should cancel the branch updation and redirect to the Branch Details page.

5.4 Branch Deletion

5.4.1 Overview

This feature is useful for Administrator to delete an unwanted Bank of Pennsylvania Branches.

5.4.2 Task Flow Diagram



5.4.3 Use Cases for Branch Deletion

Actors Action	System Response
1. Actor enters Valid URL of Bank of Pennsylvania Administrator.	System displays login page of Bank of Pennsylvania Administrator.
2. Actor enters valid user name and password and click on login.	System displays Administrator module.
3. Actor clicks on Branches	System displays Branch Details page.

4. Actor clicks Delete for any unwanted branch	System displays a confirmation "Are you sure you want to delete this record?" with "Ok" and "Cancel" buttons.
5. Actor click "Ok" button	<ul style="list-style-type: none"><input type="checkbox"/> System Deletes Selected Branch (if there is no dependency) and displays "Branch Deleted Successfully" message<input type="checkbox"/> If dependency exists, system will not allow to delete and displays a message "its a shared record cannot be deleted"
6. Actor clicks Cancel.	System will cancel the branch deletion and displays the branch details page.

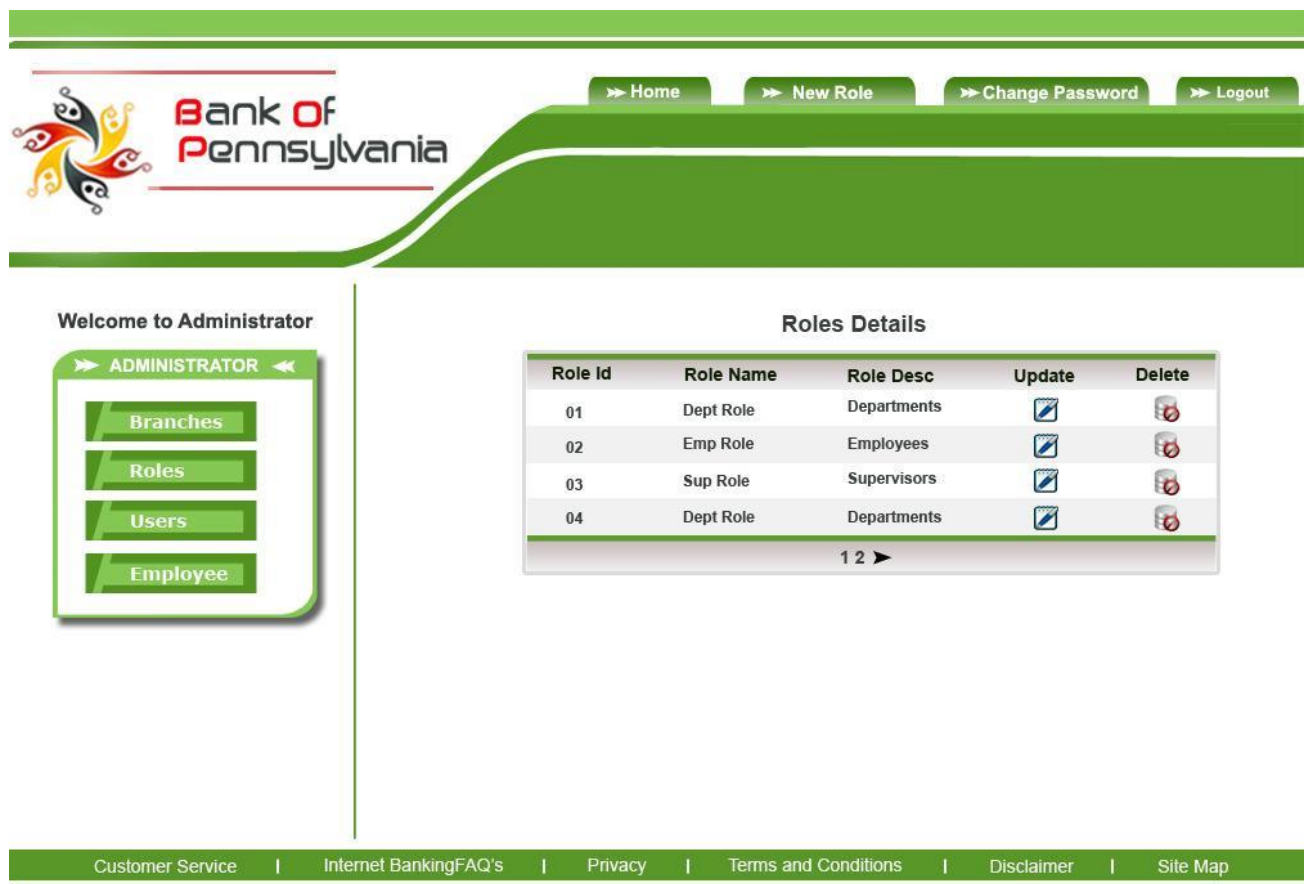
6.0 Roles

6.1 Roles Details Page

6.1.1 Overview

This page displays all existing roles and allows Administrator to create a new role, modify and delete a Role.

6.1.2 Prototype – Roles Details Page



The prototype for the Bank of Pennsylvania Roles Details Page features a green-themed interface. At the top, the Bank of Pennsylvania logo is on the left, and navigation links for Home, New Role, Change Password, and Logout are on the right. A left sidebar titled 'Welcome to Administrator' contains a menu with 'ADMINISTRATOR' and sub-items: Branches, Roles, Users, and Employee. The main content area, titled 'Roles Details', displays a table of roles with columns for Role Id, Role Name, Role Desc, Update, and Delete. The table lists four roles: 01 (Dept Role, Departments), 02 (Emp Role, Employees), 03 (Sup Role, Supervisors), and 04 (Dept Role, Departments). Each role has an update icon (pencil) and a delete icon (trash). A pagination bar at the bottom of the table shows '1 2' with a right arrow. The footer contains links for Customer Service, Internet BankingFAQ's, Privacy, Terms and Conditions, Disclaimer, and Site Map.

Role Id	Role Name	Role Desc	Update	Delete
01	Dept Role	Departments		
02	Emp Role	Employees		
03	Sup Role	Supervisors		
04	Dept Role	Departments		

1 2 ►

6.1.3 Page Elements


Element Name	Element Type	User Action	System Response
Roles Details Table			
Role Id	Table Element	Read Only	Role Ids should display
Role Name	Table Element	Read Only	Role Names should display
Role Description	Table Element	Read Only	Role Description should display
Edit	Image link	Click	Role Update page should display
Delete	Image Link	Click	Role Deletion confirmation message should display.
Page Link(s)	Link	Click	System displays the respective page with records.
New Role	Button	Click	New Role page should display.

6.2 New Role Creation

6.2.1 Overview

This feature allows Administrator to create a New Role.

6.2.2 Prototype – New Role Entry Page



Bank of
Pennsylvania

» Home

» Change Password

» Logout

Welcome to Administrator

» ADMINISTRATOR «

Branches

Roles

Users

Employee

New Role Insertion

Role Name

*

Roll Desc

Role Type

Select

*

Submit

Reset

Cancel

Customer Service

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Internet BankingFAQ's

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Site Map

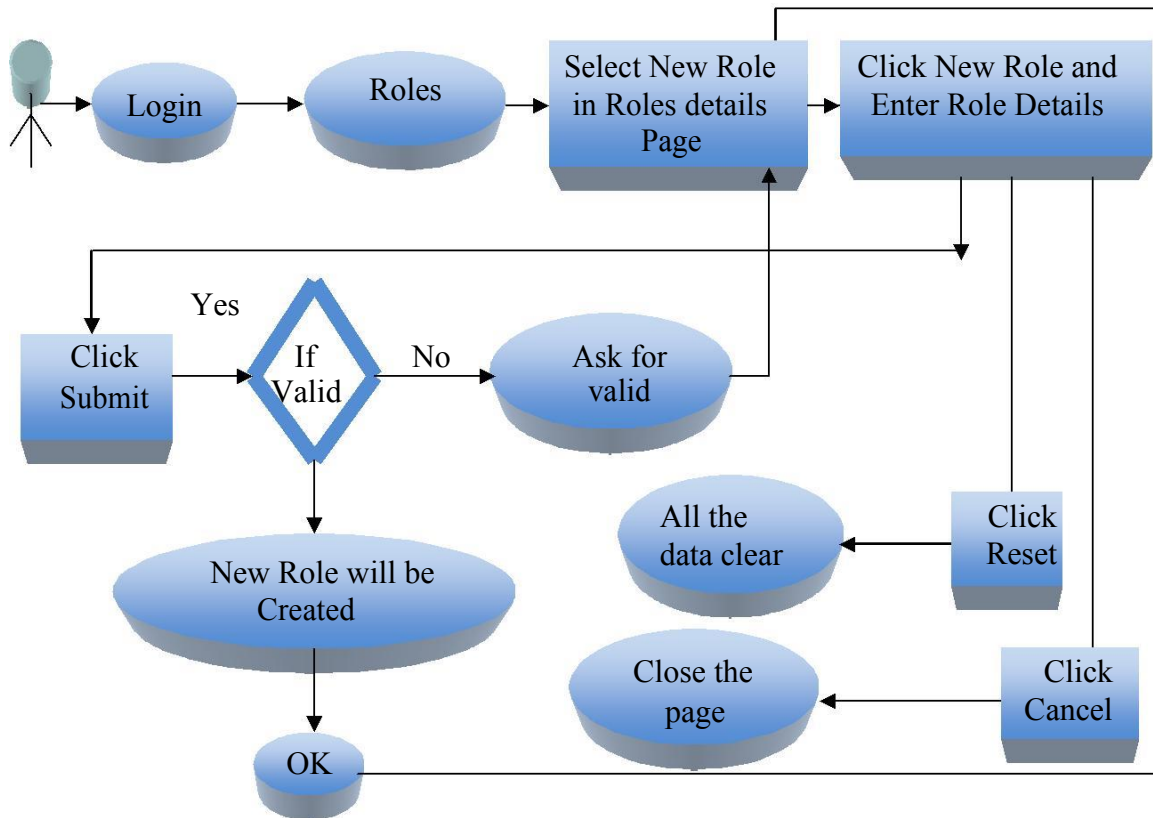
6.2.3 Page Elements

Element Name	Element Type	User Action	System Response
Role Name	Edit box	Enter/Edit	<ol style="list-style-type: none"> 1. If Blank – “Please fill in the following fields – Role Name” 2. If Valid Chars- “This field should be alphabets only” 3. If Invalid Range- “It should be with in 4 – 30 chars in length” 4. If Duplicate- “This Role already exists”
Role Description	Edit box	Enter/Edit	<ol style="list-style-type: none"> 1. If Invalid Range- “This Field should be max of 50 chars.
Role Type	List box	Select an in-built Role Type	System should accept
Submit	Button	Click	If user entered valid data then system should create a new role successfully. And created role should display in Role Details page.
Reset	Button	Click	System should clear all the fields.
Cancel	Button	Click	System should cancel the new role creation and redirect to the Role Details page.

6.2.4 Input Validations & Error States

Element Name	Valid Data	Error State
Role Name	<ol style="list-style-type: none"> 1. Mandatory 2. Alphabets Only. 3. Min of 4 Chars 4. Max of 30 Chars 5. Unique 	<ol style="list-style-type: none"> 1. If Blank – “Please fill in the following fields – Role Name” 2. If Invalid Chars- “This field should be alphabets only” 3. Invalid Range- “It should be with in 4 – 30 chars in length” 4. Duplicate- “This Role already exists”
Role Description	<ol style="list-style-type: none"> 1. Alphanumeric and special Chars. 2. Max of 50 chars. 	<ol style="list-style-type: none"> 1. Invalid Range- “This Field should be max of 50 chars.
Role Type	<ol style="list-style-type: none"> 1. Mandatory 	<ol style="list-style-type: none"> 1. Blank – “Please fill in the following fields – Role type”

6.2.5 Task Flow Diagram (Role Creation)



6.2.6 Use Cases for Role Creation


Actors Action	System Response
1. Actor enters Valid URL of Bank of Pennsylvania Administrator.	System displays login page of Bank of Pennsylvania Administrator.
2. Actor enters valid user name and password and click on login.	System displays Administrator module.
3. Actor clicks on Roles	System displays Role Details page.
4. Actor clicks New Role	System displays New Role Entry Page.
5. Actor Enters necessary fields with valid data and clicks Submit.	System displays a message "New Role Created successfully with Role ID" with "Ok" Button
6. Actor enters necessary fields with valid data and clicks Reset.	System clears all the fields.
7. Actor clicks Cancel.	System should cancel new role creation and redirect to the Role Details page.

6.3 Role Update

6.3.1 Overview

This feature allows Administrator to modify an existing Role.

6.3.2 Prototype – Role Updation Page



Bank of Pennsylvania

» Home

» Change Password

» Logout

Welcome to Administrator

» ADMINISTRATOR «

Branches

Roles

Users

Employee

Roles Updation

Role

12

Branch

Ameerpet

*

Customer Id

Customer Name

Select

*

Update

Cancel

Customer Service

|

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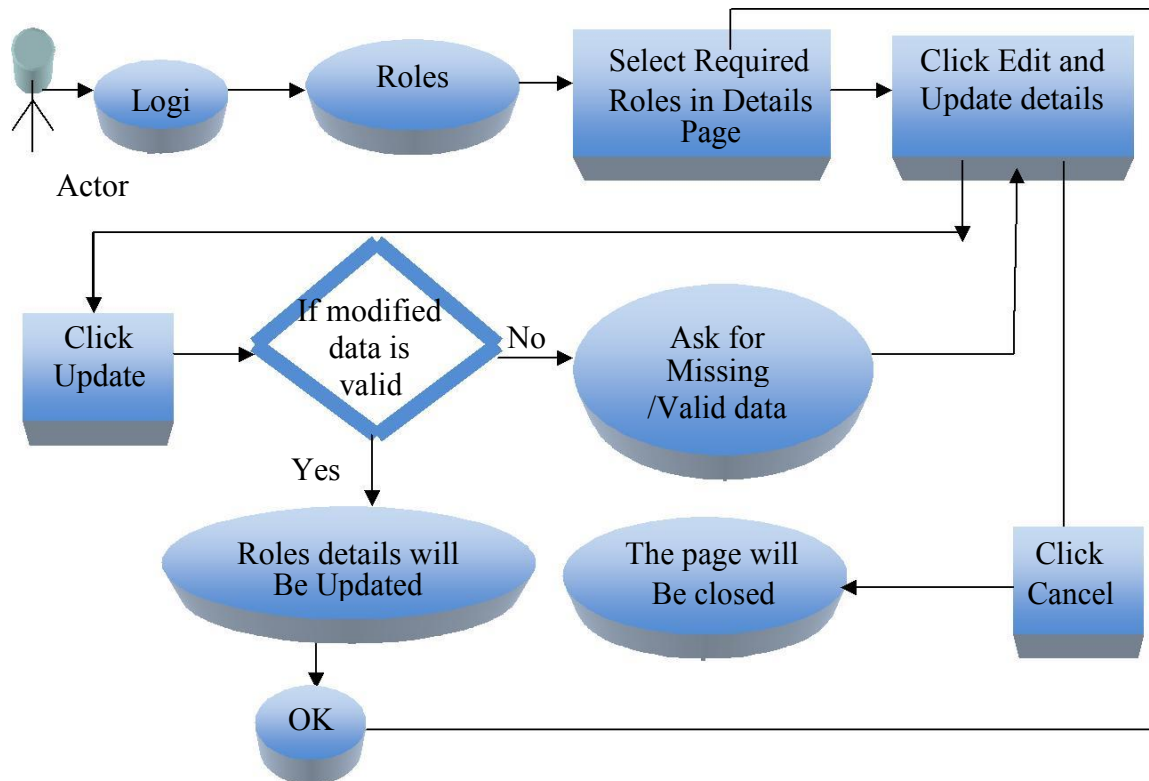
6.3.3 Page Elements

Element Name	Element Type	User Action	System Response
Role Id	Auto Display, Read Only	NA	NA
Role Name	Edit box	Enter/Edit	<ol style="list-style-type: none"> 1. If Blank – “Please fill in the following fields – Role Name” 2. If Valid Chars- “This field should be alphabets only” 3. If Invalid Range- “It should be with in 4 – 30 chars in length” 4. If Duplicate- “This Role already exists
Role Description	Edit box	Enter/Edit	<ol style="list-style-type: none"> 1. Invalid Range- “This Field should be max of 50 chars.
Role Type	List box	Select	System should display the selected Role type.
Update	Button	Click	System Should Update the fields
Cancel	Button	Click	System should cancel the Role Updation page and redirect to the Role Details page.

6.3.4 Input Validations & Error States

Refer 6.2.4

6.3.5 Task Flow Diagram



6.3.6 Use Cases for Role Update

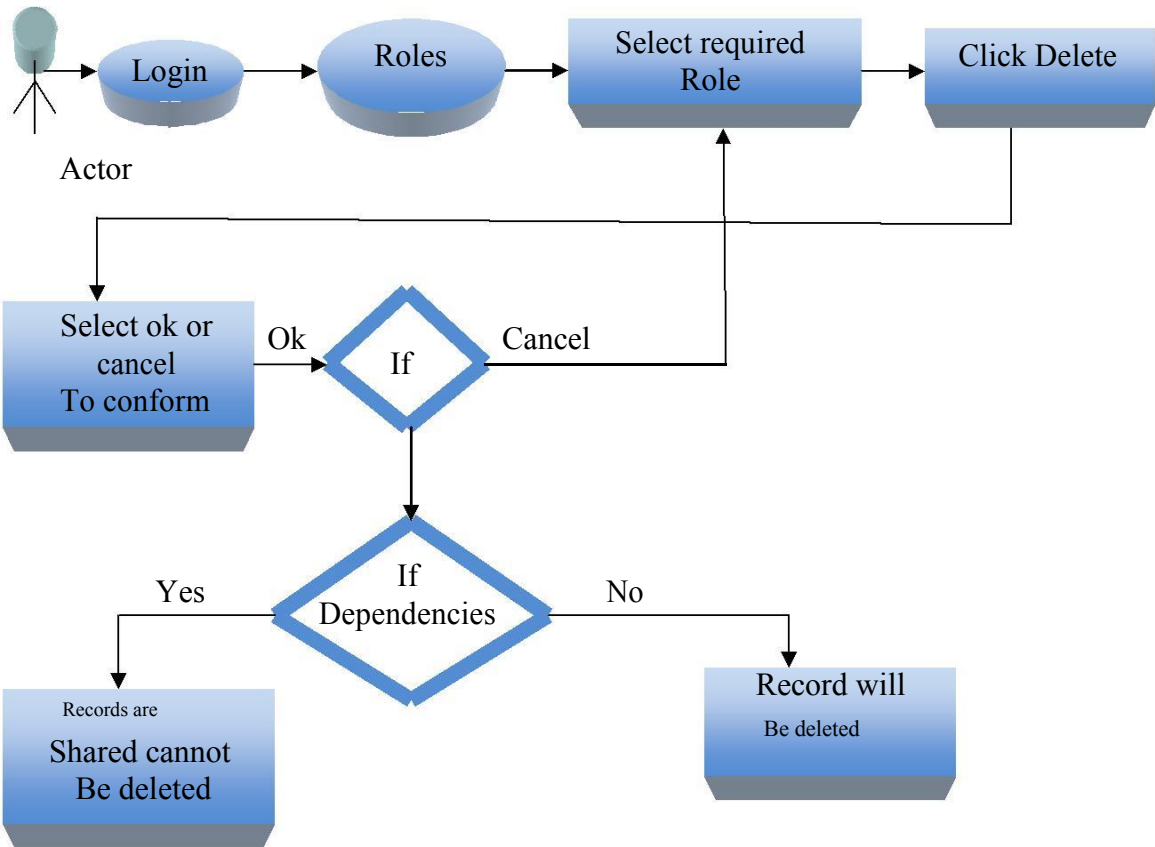
Actors Action	System Response
1. Actor enters Valid URL of Bank of Pennsylvania Administrator.	System displays login page of Bank of Pennsylvania Administrator.
2. Actor enters valid user name and password and click on login.	System displays Administrator module.
3. Actor clicks on Roles	System displays Roles Details page.
4. Actor click Edit for any role	System displays role Updation page.
5. Actor modifies necessary fields with valid data and clicks Update.	System displays a message "New Role Updated successfully"
6. Actor clicks cancel.	System should cancel the role updation and redirect to the Role Details page.

6.4 Role Deletion

6.4.1 Overview

This feature allows Administrator to delete all unwanted roles.

6.4.2 Task Flow Diagram



6.4.3 Use Cases for Role Deletion

Actors Action	System Response
1. Actor enters Valid URL of Bank of Pennsylvania Administrator.	System displays login page of Bank of Pennsylvania Administrator.
2. Actor enters valid user name and password and click on login.	System displays Administrator module.
3. Actor clicks on Roles	System displays Role Details page.

4. Actor click Delete for any role	System displays a confirmation "Are you sure you want to delete this record?" with "Ok" and "Cancel" buttons.
5. Actor click "Ok" button	<input type="checkbox"/> System Deletes Selected Role (if there is no dependency) and displays "Role Deleted Successfully" message <input type="checkbox"/> If dependency exists, system will not allow to delete and displays a message "It's a shared record cannot be deleted"
6. Actor clicks Cancel.	System cancels the role deletion and displays role details page.


7.0 Employees

7.1 Employee Details Page

7.1.1 Overview

This feature allows Administrator to view login user names of Bank of Pennsylvania employees working with various branches and to define and manage logins for employees.

7.1.2 Prototype – Employee Details Page



Bank of Pennsylvania

Home New Employee Change Password Logout

Welcome to Administrator

ADMINISTRATOR

- Branches
- Roles
- Users
- Employee

Employee Details

EmployeeId	EmployeeName	Password	RoleName	BranchName	Update	Delete
1	SR Nagar	1st floor	Opp station	Hyderabad		
2	Koti	3rd floor	Gokulchat	Hyderabad		
3	Kompally	Ground floor	Nsr Nagar	Hyderabad		
4	Kukat Pally	2nd floor	Opp CMR	Hyderabad		
5	Yousaf Guda	3rd floor	Checkpost	Hyderabad		

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7.1.3 Page Elements

Element Name	Element Type	User Action	System Response
New Employee	Button	Click	New Employee Creation Page displays
Employee Details Table			
Employee Id	Table Element	Read Only	Employee Ids should display.
Employee Name	Table Element	Read Only	Employee Names should display.
Role	Table Element	Read Only	Role Names should display.
Branch	Table Element	Read Only	Branch Names should display.
Edit	Button	Click	Employee Update Page displays
Delete	Button	Click	Employee deletion confirmation message displays
Page Link(s)	Link	Click	System displays the respective page with records.

7.2 New Employee Creation

7.2.1 Overview

This feature allows Administrator to create a new login for Bank of Pennsylvania branch employee.

7.2.2 Prototype – New Employee Creation

The prototype shows the 'New Employee Creation' form within the Bank of Pennsylvania Administrator interface. The interface includes a header with the Bank of Pennsylvania logo and navigation links (Home, Change Password, Logout). A sidebar on the left shows a 'Welcome to Administrator' message and a menu with options: Branches, Roles, Users, and Employee. The main form area contains the 'New Employee Creation' form with the following fields:

- Employer Name**: Text input field with a required asterisk (*).
- Login Password**: Text input field with a required asterisk (*).
- Role**: Dropdown menu with 'Select' as the current value and a required asterisk (*).
- Branch**: Dropdown menu with 'Select' as the current value and a required asterisk (*).

At the bottom of the form are three buttons: **Submit** (with a green arrow icon), **Reset** (with a green circular arrow icon), and **Cancel** (with a green X icon).

The footer of the interface contains links: Customer Service | Internet BankingFAQ's | Privacy | Terms and Conditions | Disclaimer | Site Map.

7.2.3 Page Elements

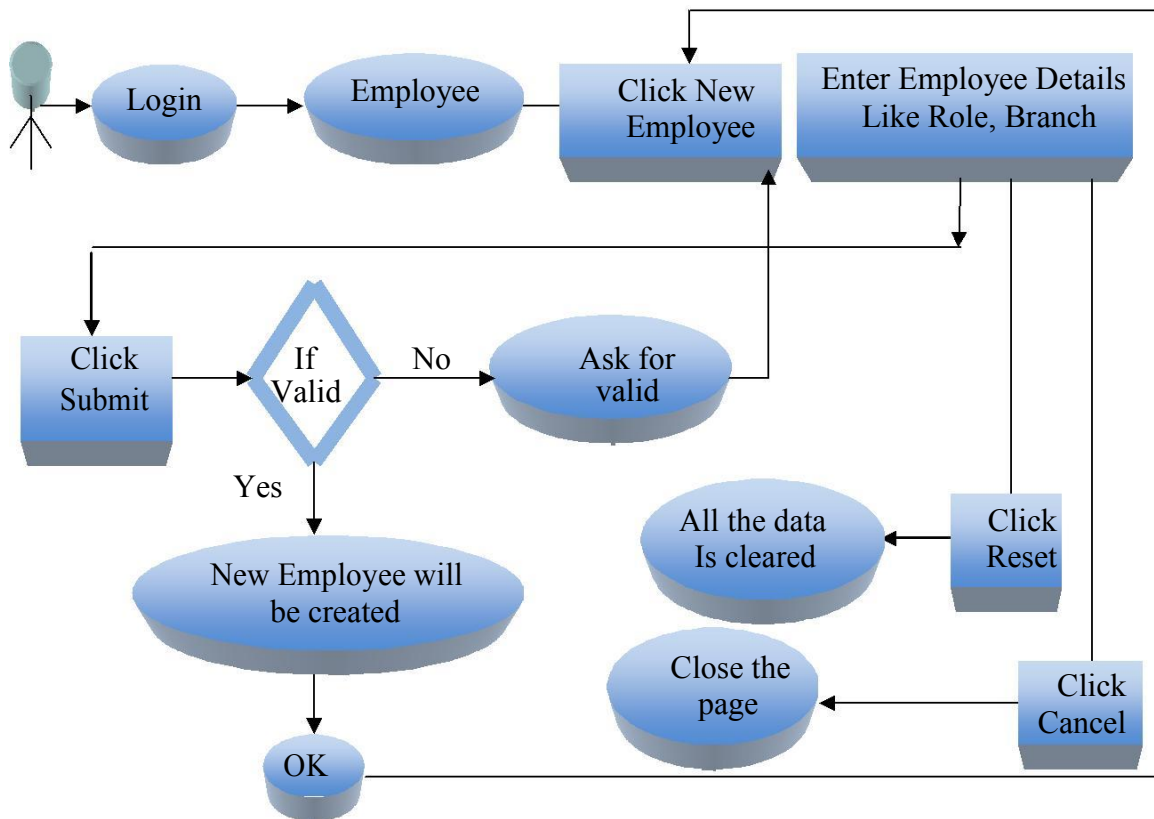
Element Name	Element Type	User Action	System Response
Employee Name	Edit box	Enter/Edit	1. If Blank/Invalid- "Enter a Valid Employee Name"
Login Password	Edit box	Enter/Edit	1. If Blank/Invalid- "Enter valid password"
Role	List box	Select a Role	System should accept

Branch	List box	Select a Branch	System should accept
Submit	Button	Click	If user entered valid data then system should create a new employee successfully. And created employee should display in Employee Details Page.
Reset	Button	Click	System should clear all the fields.
Cancel	Button	Click	System should cancel the new employee creation and redirect to the Employee Details page.

7.2.4 Input Validations & Error States

Element Name	Valid Data	Error State
Employee Name	1. Alphanumeric only. 2. Start with an Alphabet. 3. Min of 4 Chars. 4. Max of 16 Chars. 5. Mandatory. 6. Unique	<input type="checkbox"/> Blank/Invalid- "Enter a Valid Banker Name"
Login Password	1. Alphanumeric and Special Chars. 2. Min of 4 Chars. Max of 16 Chars. 3. Mandatory.	<input type="checkbox"/> Blank/Invalid- "Enter valid password"
Role	1. Mandatory	<input type="checkbox"/> Blank- "Select a Valid Role"
Branch	1. Mandatory	<input type="checkbox"/> Blank- "Select a Valid branch"

7.2.5 Task Flow Diagram



7.2.6 Use Cases for Employee Creation

Actors Action	System Response
1. Actor enters Valid URL of Bank of Pennsylvania Administrator.	System displays login page of Bank of Pennsylvania Administrator.
2. Actor enters valid user name and password and click on login.	System displays Administrator module.
3. Actor clicks on Employees	System displays Employee Details page.
4. Actor clicks New Employee	System displays New Employee Entry Page.
5. Actor Enters necessary fields with valid data and clicks Submit.	System displays a message "New Employee Created successfully with Employee ID" with "Ok" Button
6. Actor enters necessary fields with valid data and clicks Reset.	System clears all the fields.
7. Actor clicks Cancel.	System should cancel the new Employee

	creation and redirect to the Employee Details page.
--	---

7.3 Employee Updation

7.3.1 Overview

This feature allows Administrator to modify login information of a Bank of Pennsylvania employee.

7.3.2 Prototype – Employee Updation Page

Bank of Pennsylvania

Home New Employee Change Password Logout

Welcome to Administrator

ADMINISTRATOR

Branches Roles Users Employee

Employee Upsation

Bankar Id 222

Employer Name AR PHANI *

Login Password kLINK @2011 *

Role Tester *

Branch Madhapur *

Update Cancel

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7.3.3 Page Elements

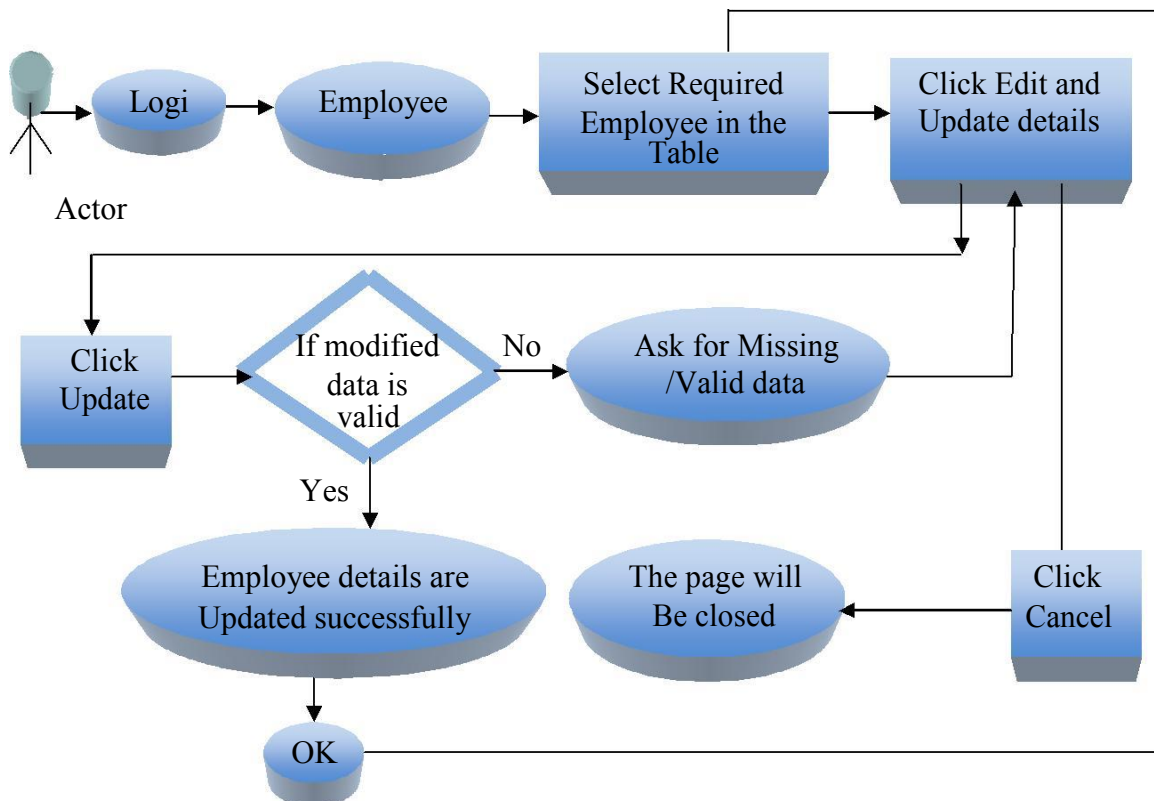
Element Name	Element Type	User Action	System Response
Banker Id	Auto Display, Read only	N/A	N/A
Employee Name	Edit box	Enter/Edit	1. If Blank/Invalid- "Enter a Valid Employee Name"

Login Password	Edit box, Encrypted password	Enter/Edit	1. If Blank/Invalid- "Enter valid password"
Role	List box	Select	System Should Accept
Branch	List box	Select	System Should Accept
Update	Button	Click	System should Update Employee details and redirect to the employee details page.
Cancel	Button	Click	System should cancel the employee updation and redirect to the employee Details page.

7.3.4 Input Validations & Error States

Refer 7.2.4

7.3.5 Task Flow Diagram



7.3.6 Use Cases for Employee Modification

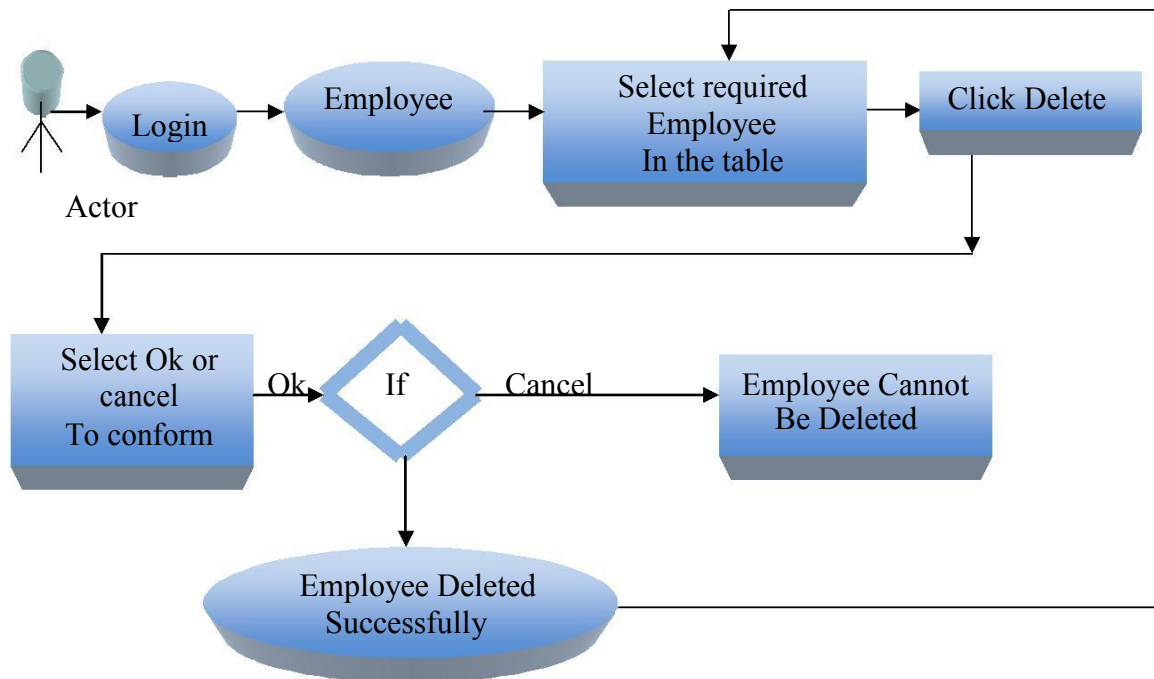
Actors Action	System Response
1. Actor enters Valid URL of Bank of Pennsylvania Administrator.	System displays login page of Bank of Pennsylvania Administrator.
2. Actor enters valid user name and password and click on login.	System displays Administrator module.
3. Actor clicks on Employee	System displays Employee Details page.
4. Actor click Edit for any Employee	System displays Employee Updation page.
5. Actor modifies necessary fields with valid data and clicks Update.	System displays a message "New Employee Updated successfully"
6. Actor clicks Cancel.	System should cancel the Employee Updation and redirect to the Employee Details page.

7.4 Employee Deletion

7.4.1 Overview

This feature allows Administrator to delete an unwanted login of Bank of Pennsylvania employee.

7.4.2 Task Flow Diagram



7.4.3 Use Cases for Employee Deletion

Actors Action	System Response
1. Actor enters Valid URL of Bank of Pennsylvania Administrator.	System displays login page of Bank of Pennsylvania Administrator.
2. Actor enters valid user name and password and click on login.	System displays Administrator module.
3. Actor clicks on Employees	System displays Employee Details page.
4. Actor click Delete for any Employee	System displays a confirmation "Are you sure you want to delete this record?" with "Ok" and "Cancel" buttons.
5. Actor click "Ok" button	<input type="checkbox"/> System Deletes Selected Employee (if there is no dependency) and displays "Employee Deleted Successfully" message <input type="checkbox"/> If dependency exists, system will not allow to delete and displays a message "its a shared record cannot be deleted"
6. Actor clicks Cancel.	System cancels Employee deletion and displays Employees details page.

8.0 Users

8.1 Users Details Page

8.1.1 Overview

This page displays all users' information and also allows Administrator to define and manage Bank of Pennsylvania users.

8.1.2 Prototype – User Details Page

Bank of Pennsylvania

» Home » New Branch » Change Password » Logout

Welcome to Administrator

ADMINISTRATOR

Branches

Roles

Users

Employee

Branch Roles

User Details

User Id	User Name	Role Name	Branch Name	Update	Delete
1	SR Nagar	1st floor	Opp station		
2	Koti	3rd floor	Gokulchat		
3	Kompally	Ground floor	Nsr Nagar		
4	Kukat Pally	2nd floor	Opp CMR		
5	Yousaf Guda	3rd floor	Checkpost		
6	Ameerpet	4th floor	RS Brothers		
7	Bharat Nagar	5th floor	VV Hospital		

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8.1.3 Page Elements

Element Name	Element Type	User Action	System Response
User Search			
Branch	List box	Select	System accepts
Roles	List box	Select	System accepts
Search	Button	Click	As per selection criteria system

			displays users in user details table.
Clear	Button	Click	System clears the selection criteria and displays all the users in user details table.
New User	Button	Click	System displays New User Creation Page.
Users Details Table			
User Id	Table Element	Read Only	User Ids should display
User Name	Table Element	Read Only	User Names should display
Role Name	Table Element	Read Only	Role Names should display
Branch Name	Table Element	Read Only	Branch Names should display
Edit	Image Link	Click	System displays User Update Page.
Delete	Image Link	Click	System displays user deletion confirmation message.
Page Link(s)	Link	Click	System displays the respective page with records.

8.2 New User Creation

8.2.1 Overview

This feature allows Administrator to create a new user for Bank of Pennsylvania. The new user id is created for the existing customers. To create new user any customer should exist.

8.2.2 Prototype - New User Creation Page



» Home » Change Password » Logout


Welcome to Administrator

ADMINISTRATOR

- Branches
- Roles
- Users
- Employee

New User Creation

Role	<input type="text" value="Select"/>	*
Branch	<input type="text" value="Select"/>	*
Customer Id	<input type="text" value="Select"/>	*
Customer Name	<input type="text"/>	*
User Name	<input type="text"/>	*
Login Password	<input type="text"/>	*
Transaction Password	<input type="text"/>	*

Submit  Reset  Cancel 

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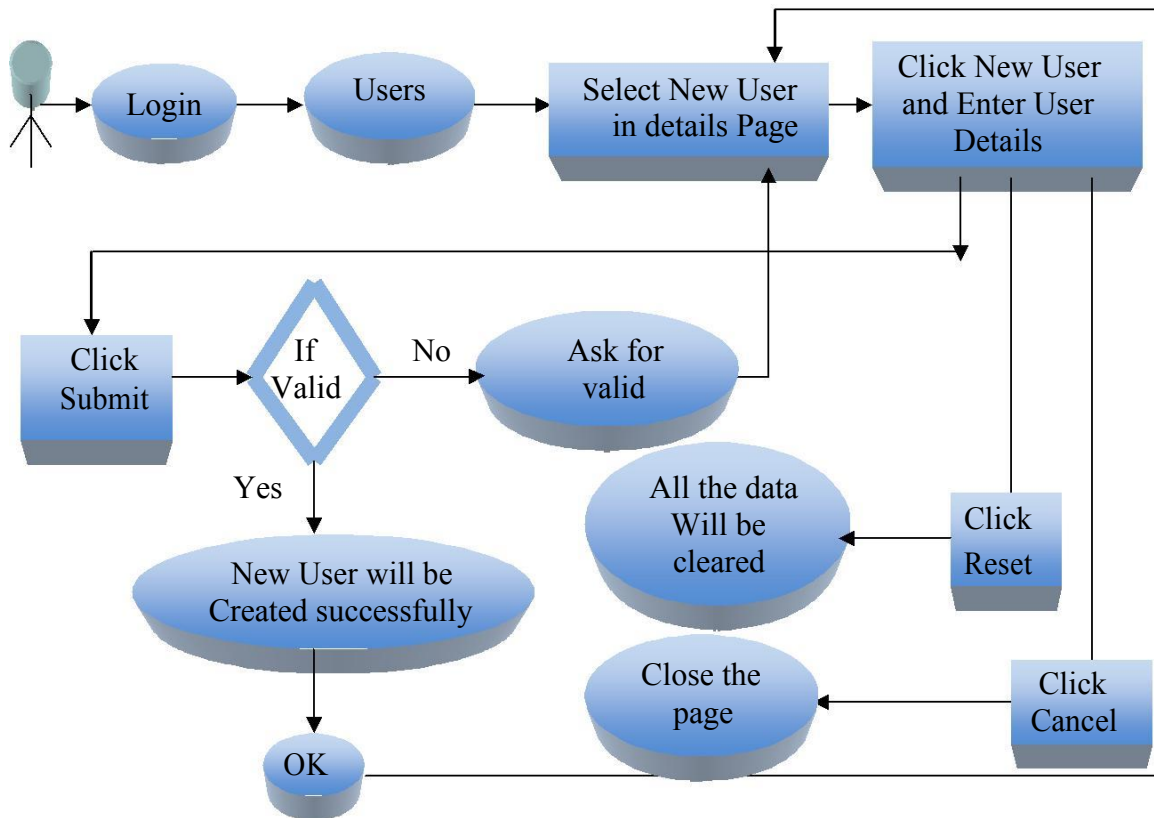
8.2.3 Page Elements

Element Name	Element Type	User Action	System Response
User Name	Edit box	Enter/ Edit	<ol style="list-style-type: none"> 1. If Blank - "Please fill in the following fields – User Name" 2. If Invalid Chars- "This field should be alphanumeric only" 3. If Invalid Range- "It should be with in 4 - 16 chars in length"
Login Password	Edit box	Enter/ Edit	<ol style="list-style-type: none"> 1. If Blank - "Please fill in the following fields – Login Password" 2. If Invalid Range- "It should be with in 4 - 16 chars in length"
Transaction Password	Edit box	Enter/ Edit	<ol style="list-style-type: none"> 1. If Blank - "Please fill in the following fields – Transaction Password" 2. If Invalid Range- "It should be with in 4 - 16 chars in length"
Role	List box	Select an in-built Role	System accepts
Branch Name	List box	Select a Branch	System accepts
Customer Id	List box	Select an in-built Customer Id	Should display Customer ID's depending on selection of Role And branch.
Customer Name	Edit Box, Read only	Auto Display	System displays customer name for the selected customer Id
Submit	Button	Click	If user entered valid data then system should create a new User successfully. And created User should display in User Details page.
Reset	Button	Click	System should clear all the fields.
Cancel	Button	Click	System should cancel the new User creation and redirect to the User Details page.

8.2.4 Input Validations & Error States

Element Name	Valid Data	Error State
User Name	1. Alphanumeric only. 2. Start with an Alphabet. 3. Min of 4 Chars. 4. Max of 16 Chars. 5. Mandatory. 6. Unique	<input type="checkbox"/> Blank - "Please fill in the following fields – User Name" <input type="checkbox"/> Invalid Chars- "This field should be alphanumeric only" <input type="checkbox"/> Invalid Range- "It should be with in 4 - 16 chars in length"
Login Password	1. Alphanumeric and Special Chars. 2. Min of 4 Chars. 3. Max of 16 Chars. 4. Mandatory.	<input type="checkbox"/> Blank - "Please fill in the following fields – Login Password" <input type="checkbox"/> Invalid Range- "It should be with in 4 - 16 chars in length"
Transaction Password	1. Alphanumeric and Special Chars. 2. Min of 4 Chars. 3. Max of 16 Chars. 4. Mandatory.	<input type="checkbox"/> Blank - "Please fill in the following fields – Transaction Password" <input type="checkbox"/> Invalid Range- "It should be with in 4 - 16 chars in length"
Role Type	1. Mandatory	<input type="checkbox"/> Blank – "Please fill in the following fields – Role type"
Branch	1. Mandatory	<input type="checkbox"/> Blank – "Please fill in the following fields – Branch Name"
Customer ID	1.Mandatory	<input type="checkbox"/> Blank – "Please fill in the following fields – Customer ID"
Customer Name	1. Mandatory 2. Read only	<input type="checkbox"/> Blank – "Please fill in the following fields – Customer Name"

8.2.5 Task Flow Diagram



8.2.6 Use Cases for User Creation

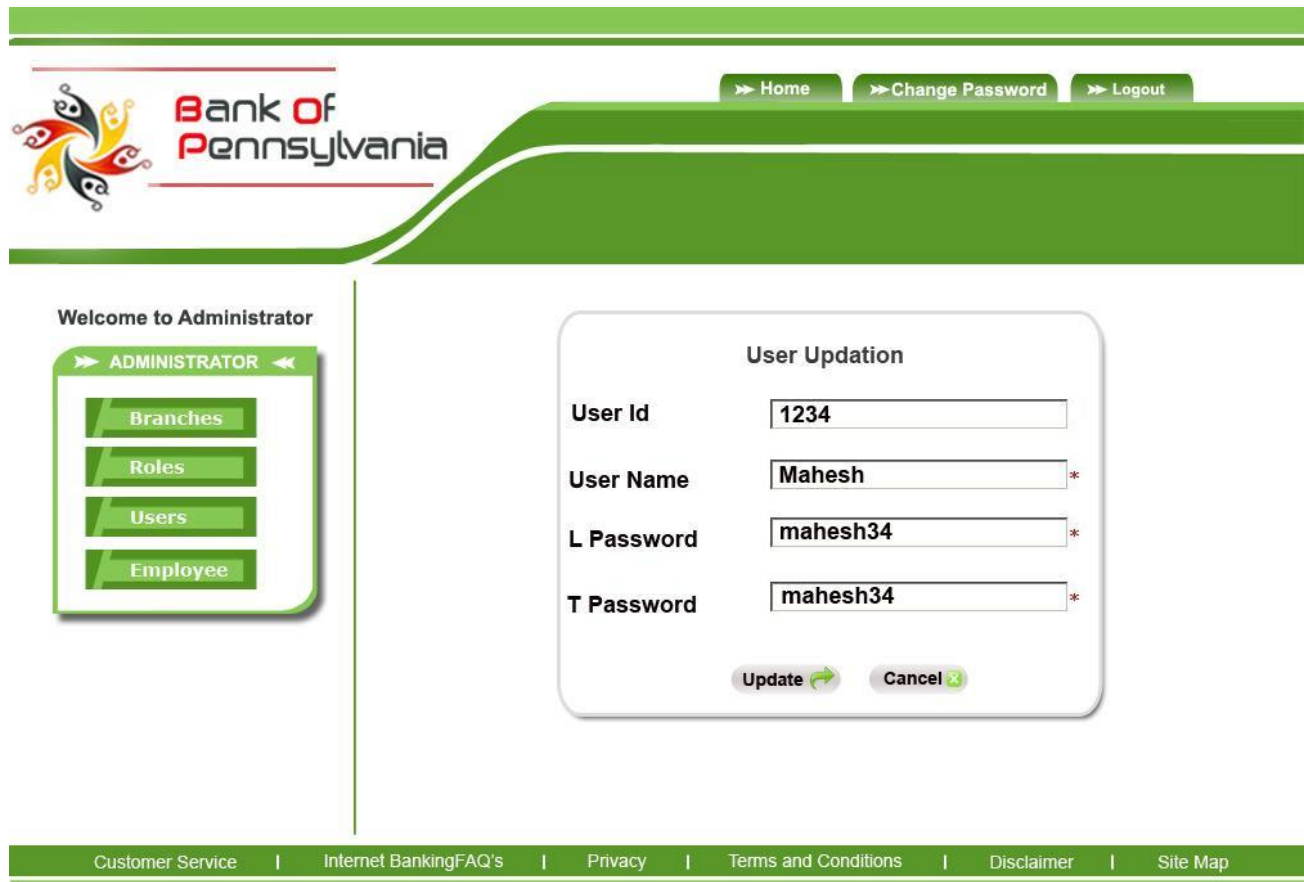
Actors Action	System Response
1. Actor enters Valid URL of Bank of Pennsylvania Administrator.	System displays login page of Bank of Pennsylvania Administrator.
2. Actor enters valid user name and password and click on login.	System displays Administrator module.
3. Actor clicks on Users	System displays User Details page.
4. Actor clicks New User	System displays New User Entry Page.
5. Actor enters necessary fields with valid data and clicks Submit.	System displays a message "New User Created successfully with Employee ID" with "Ok" Button
6. Actor enters necessary fields with valid data and clicks Reset.	System clears all the fields.
7. Actor clicks Cancel.	System should cancel the new User creation and redirect to the User Details page.

8.3 User Updation

8.3.1 Overview

This feature allows Administrator to modify existing user information.

8.3.2 Prototype – User Updation Page



The image shows a web application prototype for the Bank of Pennsylvania. The header features the bank's logo and name on the left, and navigation links for Home, Change Password, and Logout on the right. The main content area is divided into two sections. On the left, a sidebar titled 'Welcome to Administrator' contains a menu with options: ADMINISTRATOR, Branches, Roles, Users, and Employee. The 'ADMINISTRATOR' option is currently selected. On the right, the 'User Updation' form is displayed. It contains four input fields: 'User Id' with the value '1234', 'User Name' with the value 'Mahesh', 'L Password' with the value 'mahesh34', and 'T Password' with the value 'mahesh34'. Each password field has an asterisk indicating it is required. At the bottom of the form are two buttons: 'Update' and 'Cancel'.

Bank of Pennsylvania

Home Change Password Logout

Welcome to Administrator

ADMINISTRATOR

Branches

Roles

Users

Employee

User Updation

User Id 1234

User Name Mahesh *

L Password mahesh34 *

T Password mahesh34 *

Update Cancel

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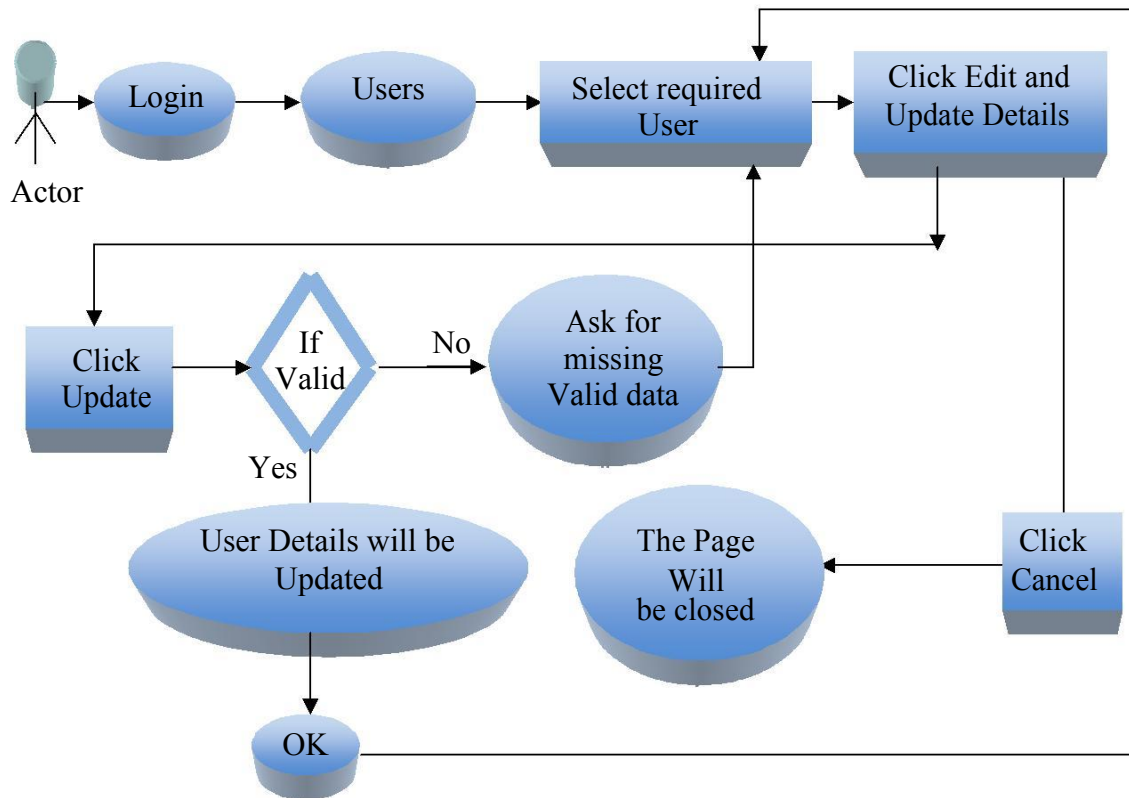
8.3.3 Page Elements

Element Name	Element Type	User Action	System Response
User Id	Auto display, Read only	NA	NA
User Name	Edit box	Enter/ Edit	<ol style="list-style-type: none"> 1. If Blank - "Please fill in the following fields – User Name" 2. If Invalid Chars- "This field should be alphanumeric only" 3. If Invalid Range- "It should be with in 4 - 16 chars in length"
Login Password	Edit box	Enter/ Edit	<ol style="list-style-type: none"> 1. If Blank - "Please fill in the following fields – Login Password" 2. If Invalid Range- "It should be with in 4 - 16 chars in length"
Transaction Password	Edit box	Enter/ Edit	<ol style="list-style-type: none"> 1. If Blank - "Please fill in the following fields – Transaction Password" 2. If Invalid Range- "It should be with in 4 - 16 chars in length"
Update	Button	Click	System should Update the fields.
Cancel	Button	Click	System should cancel the user Updation page and redirect to the User Details page.

8.3.4 Input Validations & Error States

Refer 6.2.4

8.3.5 Task Flow Diagram



8.3.6 Use Cases for User Modification

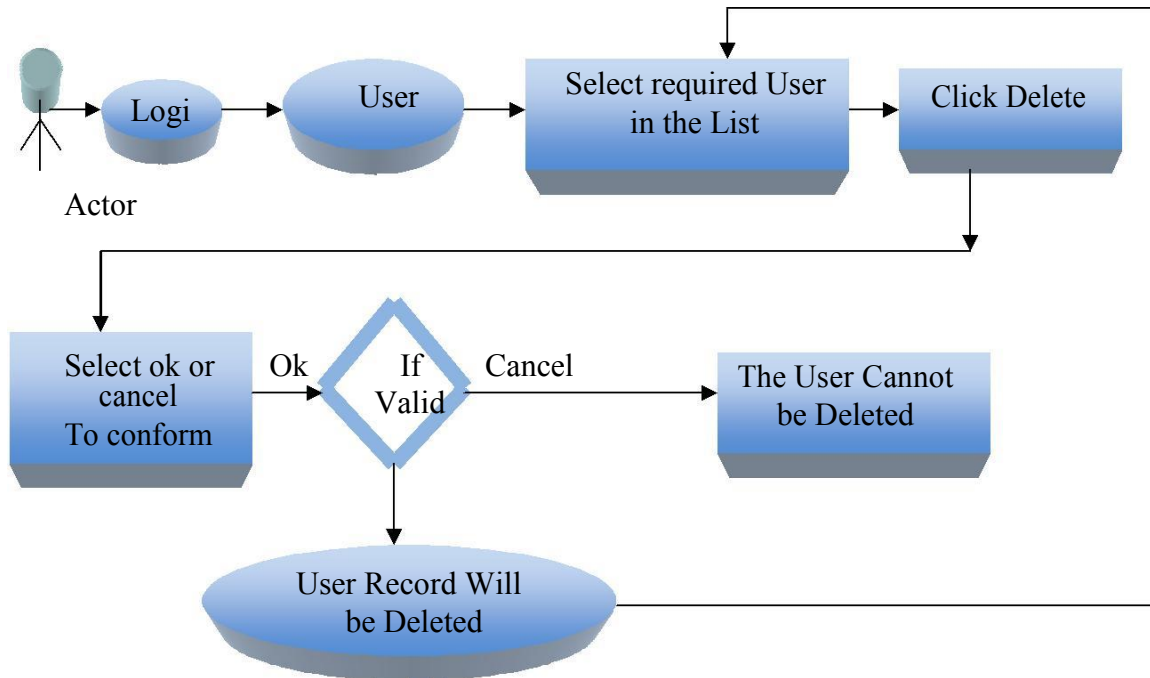
Actors Action	System Response
1. Actor enters Valid URL of Bank of Pennsylvania Administrator.	System displays login page of Bank of Pennsylvania Administrator.
2. Actor enters valid user name and password and click on login.	System displays Administrator module.
3. Actor clicks on User	System displays User Details page.
4. Actor click Edit for any User	System displays User Updation page.
5. Actor modifies necessary fields with valid data and clicks Update.	System displays a message "New User Updated successfully"
6. Actor clicks cancel.	System should cancel the User Updation and redirect to the User Details page.

8.4 User Deletion

8.4.1 Overview

This feature allows Administrator to delete an unwanted Bank of Pennsylvania user.

8.4.2 Task Flow Diagram



8.4.3 Use Cases for User Deletion

Actors Action	System Response
1. Actor enters Valid URL of Bank of Pennsylvania Administrator.	System displays login page of Bank of Pennsylvania Administrator.
2. Actor enters valid user name and password and click on login.	System displays Administrator module.
3. Actor clicks on User	System displays User Details page.
4. Actor click Delete for any user	System displays a confirmation window with "Yes" and "No" options.
5. Actor clicks "Ok"	System deletes the user.
6. Actor clicks "Cancel"	System cancels user deletion and displays User details page.

9.0 Banker Login

9.1 Banker Login Overview

This feature allows the Bank of Pennsylvania employee to login to the system.

9.2 Prototype – Banker Login

[Home](#) | [About Us](#) | [Contact Us](#)

**Bank of
Pennsylvania**

» News «

The Bank of Pennsylvania was established on July 17, 1780, by Philadelphia merchants to provide funds for the Army during the American Revolutionary War. Within a year after the Union was founded in 1781, the Bank of North America superseded the Bank of Pennsylvania.

LOGIN

Use a valid username and password to gain access.



Branch Name

Select a Branch

User Name

Password

Login

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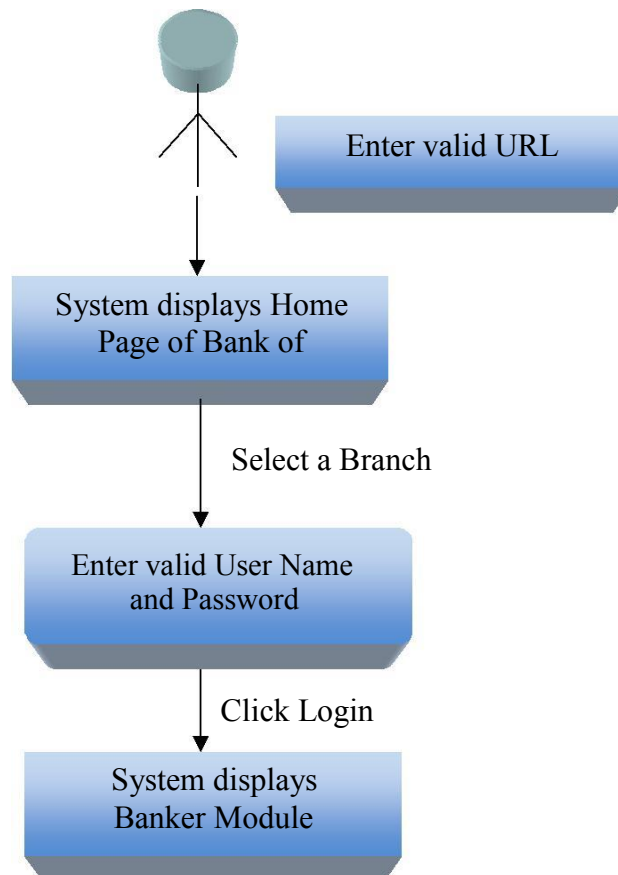
60

**Bank of
Pennsylvania**

9.3 Elements of Banker Login Page

Element Name	Element Type	User Action	System Response
Branch Name	List box	Select a Branch	System accepts
User Name	Edit Box	Enter	System accepts
Password	Edit Box	Enter	System accepts
Login	Image	Click	1. If valid: System displays Banker Home Page. 2. If invalid: System displays error message.

9.4 Task flow diagram for Banker Login



9.5 Input Validations & Error States

Element Name	Valid Data	Error State
User Name	1. Mandatory.	1. Blank/Invalid- "Enter a Valid User Name"
Password	1. Mandatory.	1. Blank/Invalid- "Enter valid password"
IF User login failed then System Should display a pop that Incorrect User Name/ Password.		

9.6 Use Cases for Banker Login Page

Actors Action	System Response
1. Actor enters Valid URL of Bank of Pennsylvania Administrator.	System displays login page of Bank of Pennsylvania Administrator.
2. Actor selects Respective branch	System accepts
3. Actor enters User Name.	System accepts
4. Actor enters Password.	System accepts
5. Actor clicks on Login.	1. If valid: System displays Banker Home Page. 2. If invalid: System displays error message.

