



Customer Module - Should be implemented by Trainee 2

Login:

The login page allows the customer to login to InfyBank application using customer's credentials. The login page should be displayed as shown in the below screenshot.

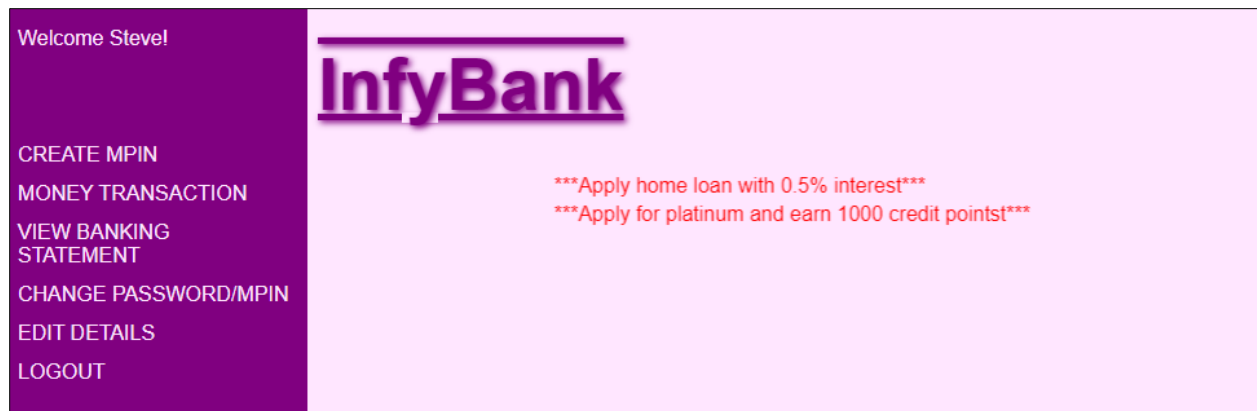
- On clicking the '**Login**' button, the email id/ phone number and password entered by the customer should be validated as below,
 - All fields are mandatory, else display ***"Please fill all the fields!"***
 - **Valid email id:** It should contain single '@' character, a domain name and should be unique
 - **Valid phone number:** It should be unique and valid mobile number
 - **Valid password:** It should contain at least 1 upper case, 1 lowercase and 1 special character and must contain minimum of 6 characters
 - If above validations are true, then check whether the email id/ phone number exists in the Customer_Details table
 - If the email id is not existing then, display ***"You are not authorized to login as admin!"***
 - If email id is matching and the password is not matching, display ***"Please enter the correct password!"***
 - If both email id and password are matching, redirect the user to Customer's home page

Note: A user can login either using email id or phone number, but both functionalities must be available.

- On clicking the '**Reset**' button, the details entered by the user should be cleared in the form

Customer Home page:

After the successful login customer should be redirected to Customer Home page, the page should be displayed as shown in the below screenshot.



The functionalities of this page are as follows,

- **Header** - Should display ‘Welcome <logged in customer name>!’
- **Scroll Text** – Display all offers available in Bank_Offers table as scrolling notification in home page
- **Menu** – The following options should be displayed in the Customer Home page
 - Create MPIN
 - Money Transaction
 - View Banking Statement
 - Change Password/MPIN
 - Edit Details
 - Logout

On clicking any of the above menu option, should display the corresponding details to the customer as described below.

Create MPIN:

Customer can create his/her personal identification number. On clicking **CREATE MPIN** the customer should be able to view the page as shown in the below screenshot.

- **Header** - Should display ‘Hi <logged in customer name>!’
- On clicking ‘**Submit**’ validate the details as follows,

- **Valid Password:** It should contain at least 1 upper case, 1 lowercase and 1 special character and must contain minimum of 6 characters
- **Valid CVV number:** It must be a 3 digits number
- **Valid MPIN:** It must be 6 digits number without series of same numbers or numbers in sequence
For example: 111111,123456 are invalid MPIN
- **Valid Confirm MPIN:** It must be same as MPIN
- If any of the above validation fails display appropriate error message
- Else, check whether the password/ cvv number is matching with the logged in user password/ CVV number
 - If the password is not matching, then display ***“Password is wrong”***
 - If the CVV number is not matching, then display ***“CVV is wrong”***
 - If password/CVV number is matching, then check already MPIN is present for the user. If present , alert the user, ***“MPIN already created. Please Update ”***
 - Else, add the new MPIN in the Customer_Details table and display ***“MPIN is successfully created”***

Note: A user can create MPIN either using password or CVV number, but both functionalities must be available

- On clicking the ‘Reset’ button, the details entered by the user should be cleared in the form

Money Transaction:

Customers can send money to others either using account_number and IFSC code or phone number of the Receiver. On click **MONEY TRANSACTION**, the customer should be able to view the page as shown in the below screenshot.

Hi Stevel

InfyBank

Amount Transaction

Receiver Account Number	Enter Receiver Account Number
Confirm Receiver Account Number	Again Enter Receiver Account Ni
IFSC code	Enter IFSC code
Receiver Phone Number	Enter Receiver Phione Number
Amount	Enter Amount
Account Type	<input type="radio"/> SB <input type="radio"/> CB
MPIN Number	Enter MPIN Number

Note: Customer can send money in any one of the following way,

- 1) Using Receiver Account number and IFSC code
- 2) Using Receiver Phone number

- **Header** - Should display 'Hi <logged in customer name>!'
- On clicking '**Submit**' validate the details as follows,
 - All the required field must be filled
 - **Valid Receiver Account Number:** It should contain only digits with length in the range between 12 to 16
 - **Valid Confirm Receiver Account Number:** It should be same as receiver account number entered
 - **Valid IFSC Code:** It should start with "IB" followed by 8 digits' unique number for each branch
 - **Valid Phone Number:** It should contain only 10 digits
 - **Valid Amount:** It Should contain only digits. Amount entered should be greater than or equal to 1
 - **Valid Account type:** It can be either SB or CB accounts
 - **Valid MPIN:** It should match with the MPIN created by the logged in customer
 - If any of the above validations fails, then prompt appropriate error message
 - Else, Check whether the given receiver account_number/phone_number is present in the Account_Details table
 - If not present, then prompt the error message ***"Account / Phone Number is not existing"***
 - Else, check Account number of sender and receiver. If both are same, then prompt the error message ***"Receiver and Sender account should not be same"***
 - Else, check entered IFSC code for receiver account is matching with the receivers IFSC code in the Account_Details table. If not matching, then prompt the error message ***"Invalid IFSC code"***
 - Else, check entered the account type for receiver is matching with the receivers account type in Account_Details table. If not matching, then prompt the error message ***"Invalid Account Type"***
 - Else, check the entered MPIN value is same as the logged in customers MPIN in Customer_Details table. If not matching, then prompt the error message ***"Invalid MPIN"***
 - Else, check the account balance of sender is greater than entered amount
 - If greater, then update the balance in Account_Details table of both sender and receiver and add the details of transaction in Transaction_Details table with status as "Success" and prompt the message ***"Transaction Successful!"***
 - Else, prompt the error message ***"Insufficient Balance"*** and add the details of transaction in Transaction_Details table with status as "Failure"
- On clicking the '**Reset**' button, the details entered by the user should be cleared in the form

View Banking Statements:

Customer can view the details of his/her past transaction. On click view banking statement menu the customer should be able to view all available account number and account type, as shown in the below screenshot.

Hi Steve!

InfyBank

Account Details

Account Number	Account Type	Select
384234567890	SB	<input type="radio"/>
988453245670	RD	<input type="radio"/>

Submit
Reset

- On clicking ‘**submit**’ validate the details as follows,
- Header** - Should display ‘Hi <logged in customer name>!’
- Check radio button is selected or not. If not selected, then prompt error message “*Select one Account*”
- Else, display the below page to enter details of From Date, To Date and MPIN

Hi Steve!

InfyBank

Banking statements

Account Number	Account Type	Current Balance
384234567890	SB	50628.75

From Date: To Date:

Enter MPIN:

Submit
Back
Reset

- On clicking ‘**Submit**’ validate the details as follows,
 - **Valid Date Range:** “To Date” must be greater than “From Date”
 - **Valid MPIN:** It should match with the MPIN created by the logged in customer
 - If above validations are true then, display the transaction details for the given date range as shown below

Hi Steve!

CREATE MPIN
MONEY TRANSACTION
VIEW BANKING STATEMENT
CHANGE PASSWORD/MPIN
EDIT DETAILS
LOGOUT

InfyBank

Banking statements

Account Number	Account Type	Current Balance
384234567890	SB	50628.75

Transaction Date	Sent to	Received from	Amount Credited	Amount Debited	Old balance	Current Balance
24-05-2020	Steve		1500		50628.75	52128.75
25-05-2020		Damon	1500		52128.75	50628.75

Back

- Else, prompt the appropriate error message
- On clicking '**Back**' redirect the Customer to the previous page

Change Password/MPIN:

Customer can change his/her login password/MPIN. On clicking Change Password/MPIN, the customer should be able to view the page, as shown in the below screenshot.

Hi Steve!

CREATE MPIN
MONEY TRANSACTION
VIEW BANKING STATEMENT
CHANGE PASSWORD/MPIN
EDIT DETAILS
LOGOUT

InfyBank

CHANGE PASSWORD

CHANGE MPIN

Change Password:

- On click **CHANGE PASSWORD**, customer should be able to view the page, as shown in the below screenshot

Hi Steve!

CREATE MPIN

MONEY TRANSACTION

VIEW BANKING STATEMENT

CHANGE PASSWORD/MPIN

EDIT DETAILS

LOGOUT

InfyBank

Change Password

Old Login Password	Enter old Login Password
New Login Password	Enter New Login Password
Confirm New Login Password	Confirm New Login Password

Submit
Reset

- **Header** - Should display 'Hi <logged in customer name>!'
- On clicking '**Submit**', validate the details as follows
 - **Valid old login password:** It should be same as user login password
 - **Valid new login password:** It should contain at least 1 upper case, 1 lowercase and 1 special character and must contain minimum of 6 characters
 - **Valid confirm new password:** It should be same as new login password
 - If all above details are valid then update the changes in Customer_Details table and prompt the success message **"Successfully Updated"**
 - Else, display the appropriate error message
- On clicking the '**Reset**' button, the details entered by the user should be cleared in the form

Change MPIN:

- On click **CHANGE MPIN** customer should be able to view the page, as shown in the below screenshot.

Hi Steve!

CREATE MPIN

MONEY TRANSACTION

VIEW BANKING STATEMENT

CHANGE PASSWORD/MPIN

EDIT DETAILS

LOGOUT

InfyBank

Change MPIN

Old MPIN	Enter Old MPIN
New MPIN	Enter New MPIN
Confirm New MPIN	Confirm New MPIN

Submit
Reset

- **Header** - Should display 'Hi <logged in customer name>!'
- On clicking '**Submit**', validate the details as follows,
 - **Valid Old MPIN:** It should match with the MPIN created by logged in customer
 - **Valid New MPIN:** It should be a 6 digits number without series or sequence of numbers
Example: 111111,123456 are invalid MPIN.

- **Valid Confirm MPIN:** It should be same as New MPIN entered
- If all above details are valid then update the changes in Customer_Details table and prompt the success message ***“Successfully Updated MPIN”***
- Else, display the appropriate error message
- On clicking the **‘Reset’** button, the details entered by the user should be cleared in the form

Edit Details:

Customer can edit his/her details. On clicking **EDIT DETAILS**, the customer should be able to view the his/her details available in the Customer_Details table as shown in the below screenshot.

Account Number	384234567890
Customer Name	Steve Smith
Email id	steve@gmail.com
Phone Number	8887434888
Address	6/10, Silver Gardens, Hebbal Electronics city,Mysore-570027
Debit Card Number	8887-2304-2341
CVV Number	808

- **Header** - Should display ‘Hi <logged in customer name>!’
- On clicking **‘Save’**, validate the details as follows,
 - **Valid Customer Name:** it should only contain alphabets starting with Upper case letter followed by both upper-case and lower-case letters. Multiple words in the customer name should be separated by single space
 - **Valid Email id:** It should contain single ‘@’ character followed by a domain name
Example: steve@gmail.com
 - **Valid Phone number:** It should contain only 10 digits
 - **Valid Address:** It can contain alphabets, digits, comma (,) hyphen (-) and slash (/) Multiple words should be separated by single space
 - If all above details are valid then update the changes in Customer_Details table
 - Else, display the appropriate error message
- On clicking the **‘Reset’** button, the details entered by the user should be cleared in the form

Logout:

Customer can logout from the application at any time by clicking logout. On clicking logout, it should redirect admin to Login page and all the session variables must be destroyed.