Role - Business Analyst

The BA translated the requirements and needs of the customer into a business model: process models and business goals and business vision. The BA researches the market to understand customer requirements and collaborates with the Architect(s) to translate them into a technological vision. They are responsible for designing features etc. which will distinguish their project from the competition and often work closely with the Marketing and Sales teams. In our simulation, the BA will also be responsible for the User-interface design to facilitate easier user-interaction. The BA will work with the testers to come up with the user acceptance criteria written on the back of each user story.

Revision History

Week Number	Author	Description of changes
1	Michael Tran, John Chan	• Added Risk migration • Added Business goals • Added User stories • Added UI Mock-ups • Added Business Process Models
3	Michael Tran, John Chan	• Added Variations in the domain • Refined wireframes using Axure
7	Austin Han, Victoria Mannina	• Updated Business Process Models (#3) • Specified User Acceptance Criteria and the Observed Results • Managed User Stories/Use Case Diagrams and Variations(#2, #6)

Comments:

- *This page should be updated each week and the TAs will use it to determine the week's work done by the team-member in the particular role.*
- *For each of the items mentioned in the following pages. Be as brief as possible in your responses. A good rule of thumb is to keep each response within two paragraphs.*
- *This document represents your log of decisions. You are not bound to follow a decision blindly. You may change the decision if new aspects come to light which make your decision inappropriate. However, this may include repercussions like code rewrite etc. So choose wisely.*
- *You may delete the commented regions for your weekly turn-in submissions.*

ITERATION REVIEW QUESTIONS

- Is everyone happy with the quality of work? Documentation? Testing?

  Yes, we are happy with the quality of work, documentation, and testing.

- How did everyone feel about the pace of the iteration? Was it frantic? Reasonable? Boring?

  We felt the pace of this iteration was reasonable.

- Is everyone comfortable with the area of the system they were working in?

  We felt comfortable in the area of the system we were working in.

- Are there any tools particularly helping or hurting productivity? Are there any new tools the team should consider incorporating?

  Facebook is helping productivity by allowing us to easily communicate as a group in a quick, efficient manner. GitHub is also a great tool as it allows us to collaborate easily on our documents. We cannot think of anything necessary to incorporate at this time.

- Was the process effective? Were any reviews conducted? Were they effective? Are there any process changes to consider?

  Yes, our processes were effective. No reviews were conducted. We did have checkoffs, if that is what you are referring to as a review.

- Was there any code identified that should be revisited, refactored or rewritten?

  We didn't have to revise or rewrite any code, we did however refactor the code to use the different design patterns explained in class.

- Were any performance problems identified?

  Parse querying could be enhanced to be quicker than it is currently. It seems to be slow on returning.

- Were any bugs identified that must be discussed before prioritization?

  Our application did crash after trying to make a few transaction attempts.

- Was testing effective? Is our test coverage high enough for everyone to have confidence in the system?

  Yes, by testing our code we were able to find the bugs that were present and change our code according.

- Is deployment of the system under control? Is it repeatable?

  We are able to deploy the application easily by deploying through different android platforms

1. Define Business Goals, Key Performance Indicators that measure the degree to which the goals have been achieved.
   A. Meet deadlines
   B. Ensure Customer Satisfaction / Implement user stories as wanted by customer (scores/grades)
   C. Provide a simple and intuitive way for people to manage their bank accounts (feedback)

2. Define User Stories for the project.

Name	Description	Estimation	Priority
Securely Log in	User should be able to securely log in as a bank employee or account holder	2 days	10
Securely Log out	User should be able to log out and return to the log in screen	1 day	20
Sign up	New customers should be able to open their first bank/user account with name, address, date of birth, email and account type, account number.	1 day	10
Account Lookup	Teller should be able to look up a customer's account to perform transactions for them.	1 day	20
Open Account	Teller should be able to create a new account and account number for the user.	1 day	20
Forgot Password	User should be able to retrieve password by submitting their email and account number	2 days	30
Display Accounts/Balances	Account holder should be able to see all of their accounts	1 day	20

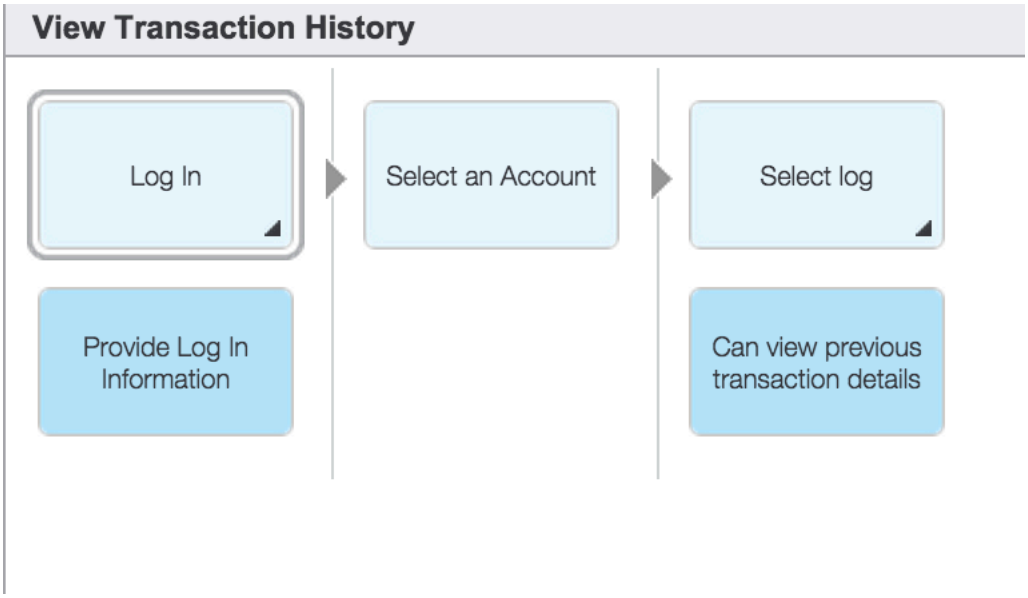
Close Account	Account holder/teller should be able to disable and delete one of the customer's bank accounts.	2 days	30
Close Account Failure	Notify user that account must have zero balance to be closed.	1 day	30
Debit Account	Account holder/teller should be able to withdraw money from a customer's bank account If withdrawal amount does not exceed the account balance.	2 days	20
Withdrawal/Transfer Failure	Notify user that they can't perform this action due to insufficient funds in source account	1 day	30
Credit Account	Account holder/teller should be able to deposit money into one of customer's bank account. Account holder can do this through credit and check. Teller can do this through cash as well.	2 days	20
Transfer	Account holder/Teller should be able to transfer money from one of the customer's bank accounts to another one of the same customer's account.	2 days	20
Transfer Confirmation	User must confirm this transaction	1 day	30
Calculate Interest	Account holder should be able to view interests of each of their bank accounts.	2 days	15
Get Balance	Balances of accounts should be listed to Account holder/Teller.	1 day	20
Transaction History	Account holder/Teller should be able to view customer's transaction history	1 day	30
Print Statement	Account holder should be able to retrieve and print out their transaction history	2 days	30

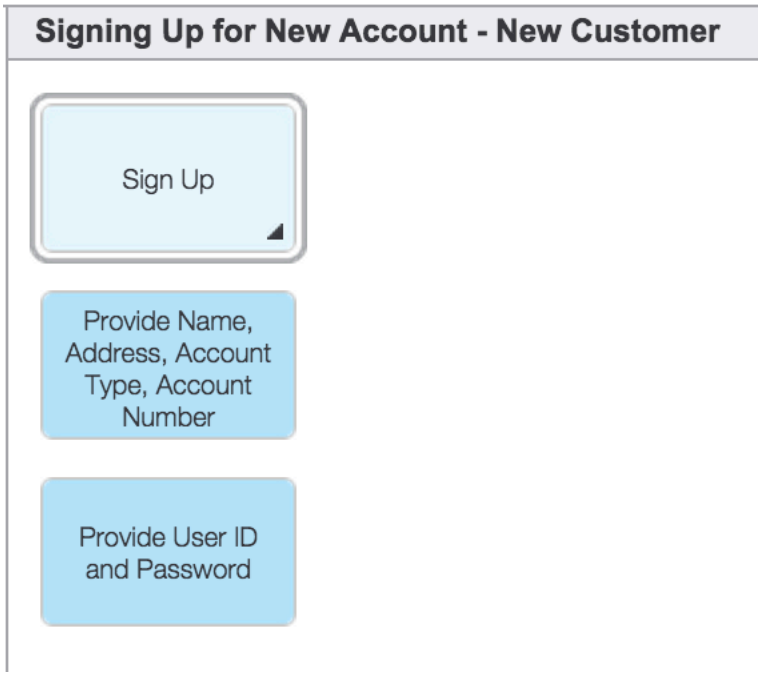
3. Business Process Models

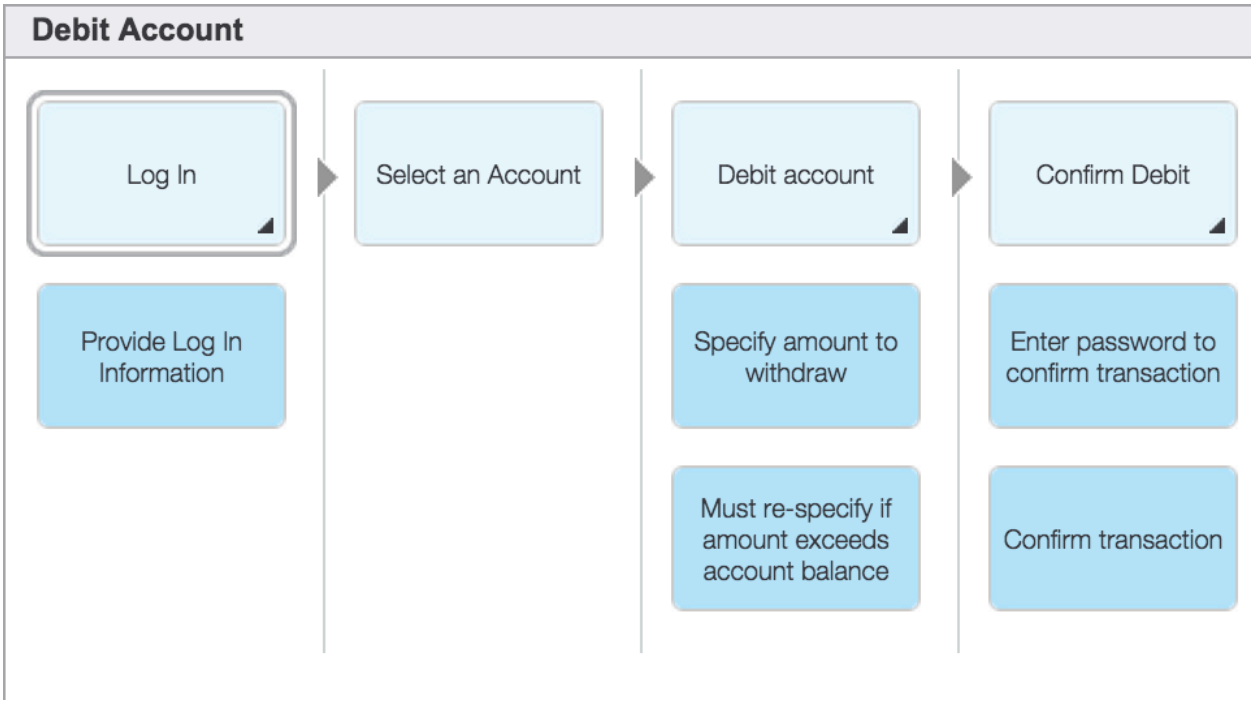
Use blueworks live to document the business processes. Describe the flow of the main business processes within the scope of your project.

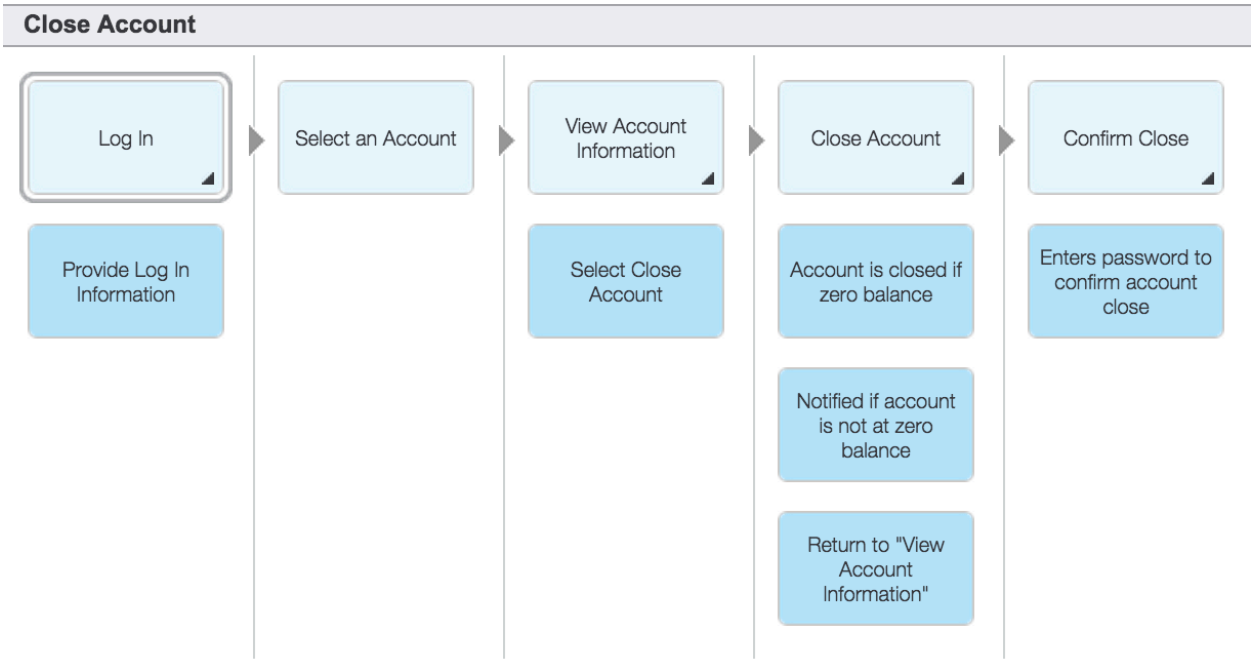
Business Processes - an account holder may close an account, view their transaction history, debit an account, credit an account, open a new account, and transfer or wire money from one account to another. A teller may do all of these things for a customer by accessing the customer's account using the account lookup tool. New customers can only sign up for an

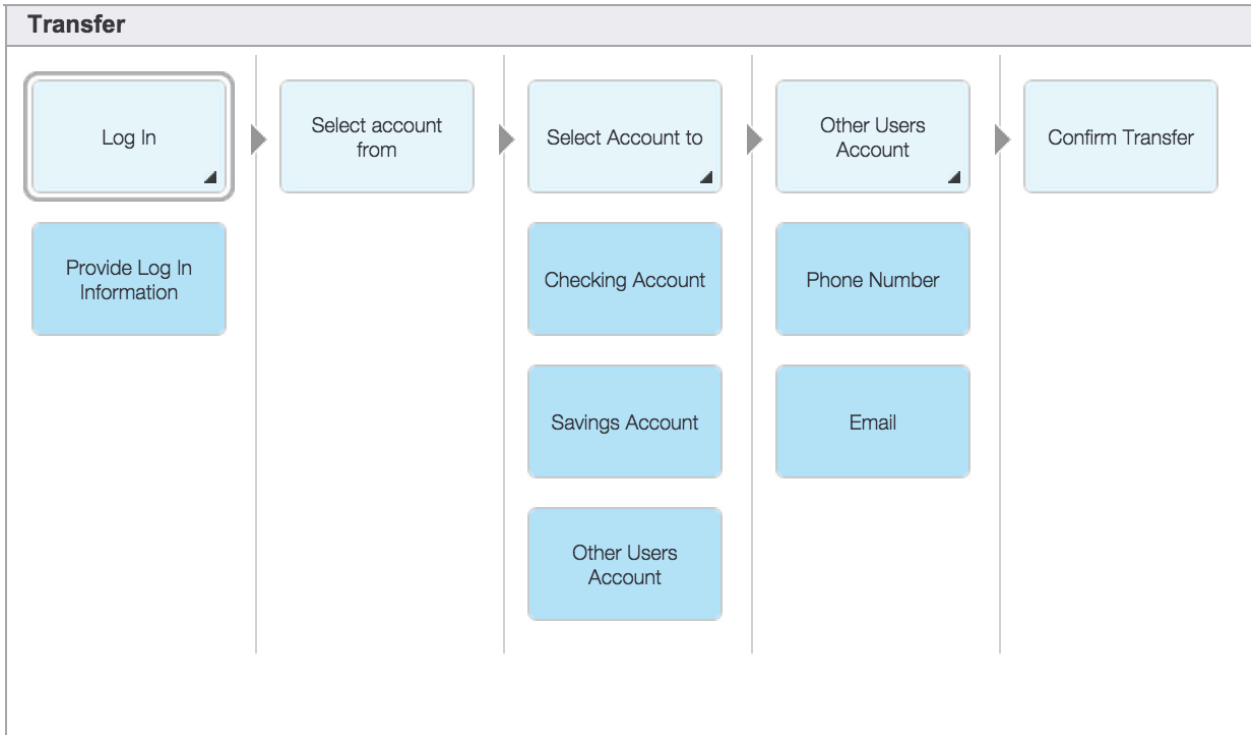
account.

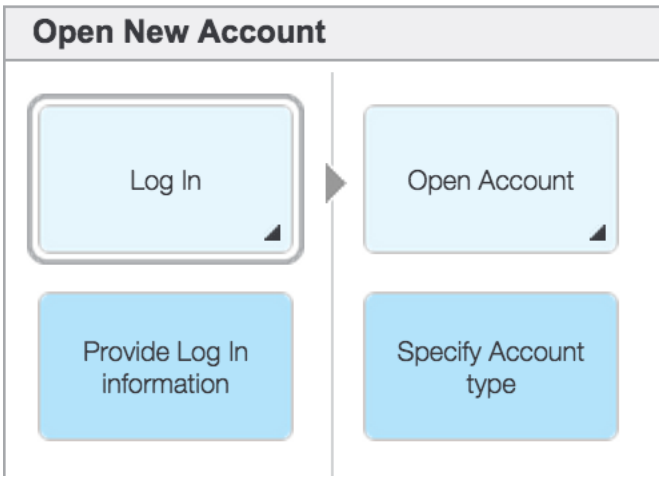

View Transaction History
Log In
Select an Account
Select log
Provide Log In Information
Can view previous transaction details

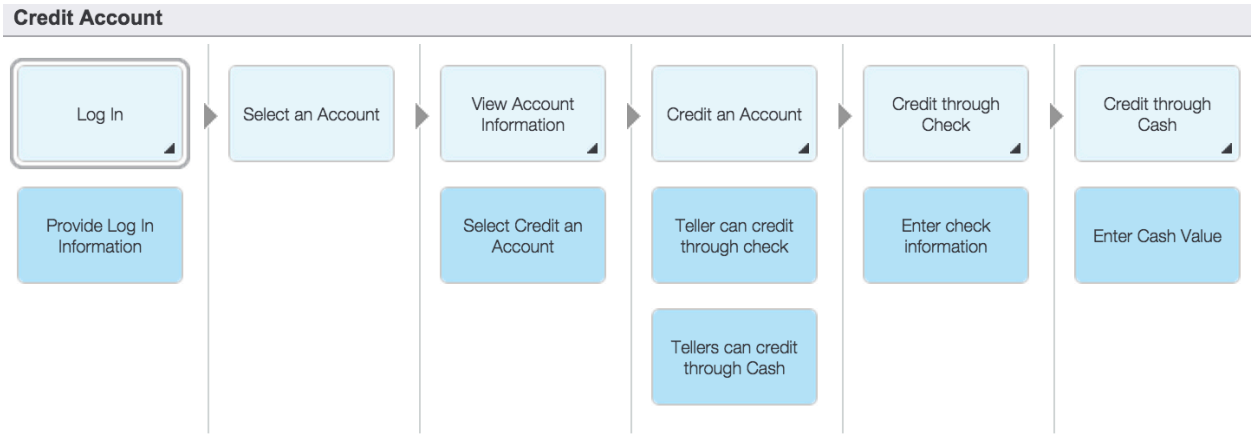

Signing Up for New Account - New Customer
Sign Up
Provide Name, Address, Account Type, Account Number
Provide User ID and Password

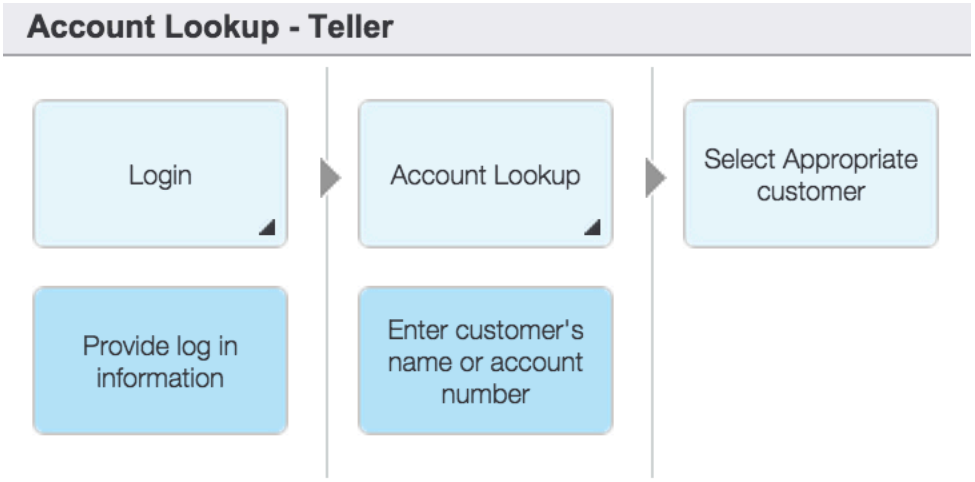

Debit Account
Log In
Select an Account
Debit account
Confirm Debit
Provide Log In Information
Specify amount to withdraw
Enter password to confirm transaction
Must re-specify if amount exceeds account balance
Confirm transaction


Close Account
Log In
Select an Account
View Account Information
Close Account
Confirm Close
Provide Log In Information
Select Close Account
Account is closed if zero balance
Enters password to confirm account close
Notified if account is not at zero balance
Return to "View Account Information"


Transfer
Log In
Select account from
Select Account to
Other Users Account
Confirm Transfer
Provide Log In Information
Checking Account
Phone Number
Savings Account
Email
Other Users Account

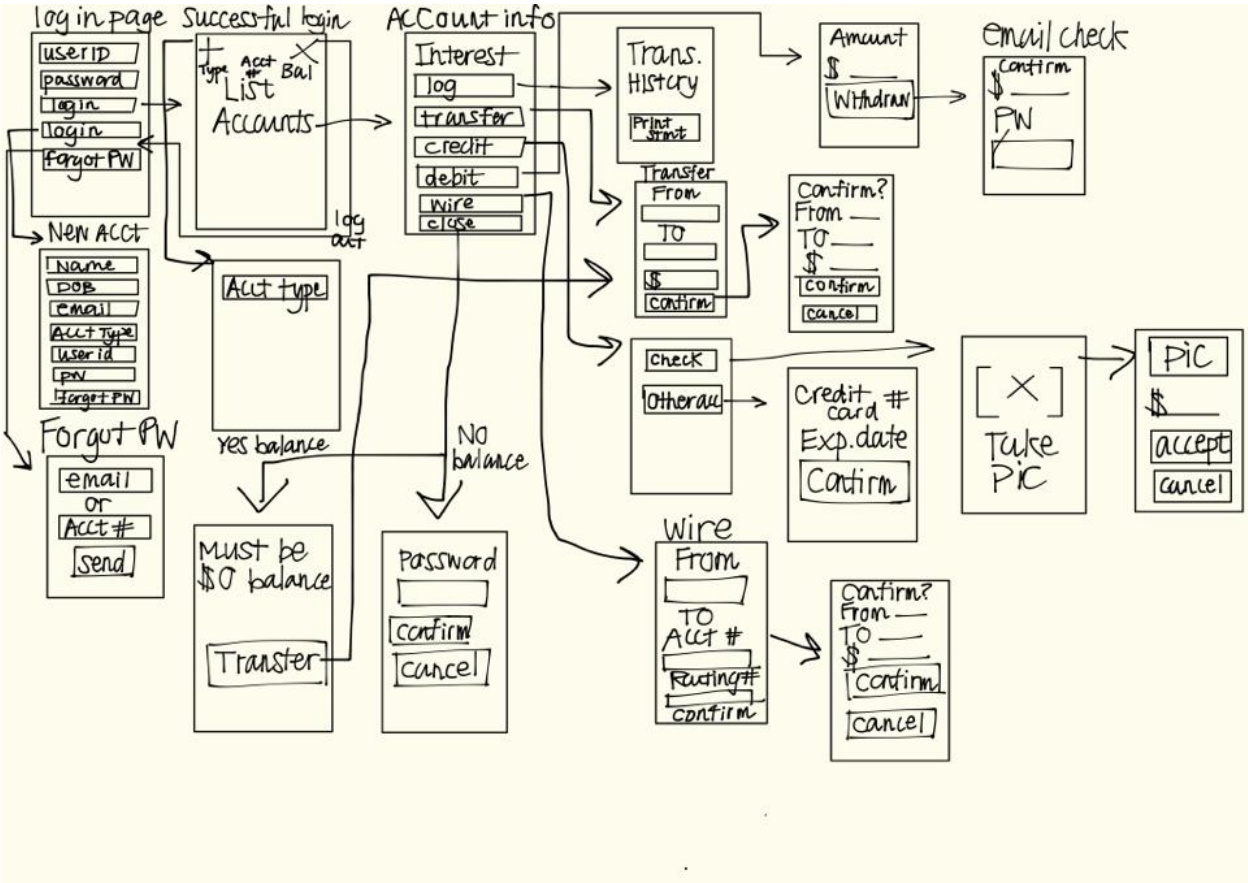

Open New Account
Log In
Open Account
Provide Log In information
Specify Account type


Credit Account
Log In
Select an Account
View Account Information
Credit an Account
Credit through Check
Credit through Cash
Provide Log In Information
Select Credit an Account
Teller can credit through check
Tellers can credit through Cash
Enter check information
Enter Cash Value

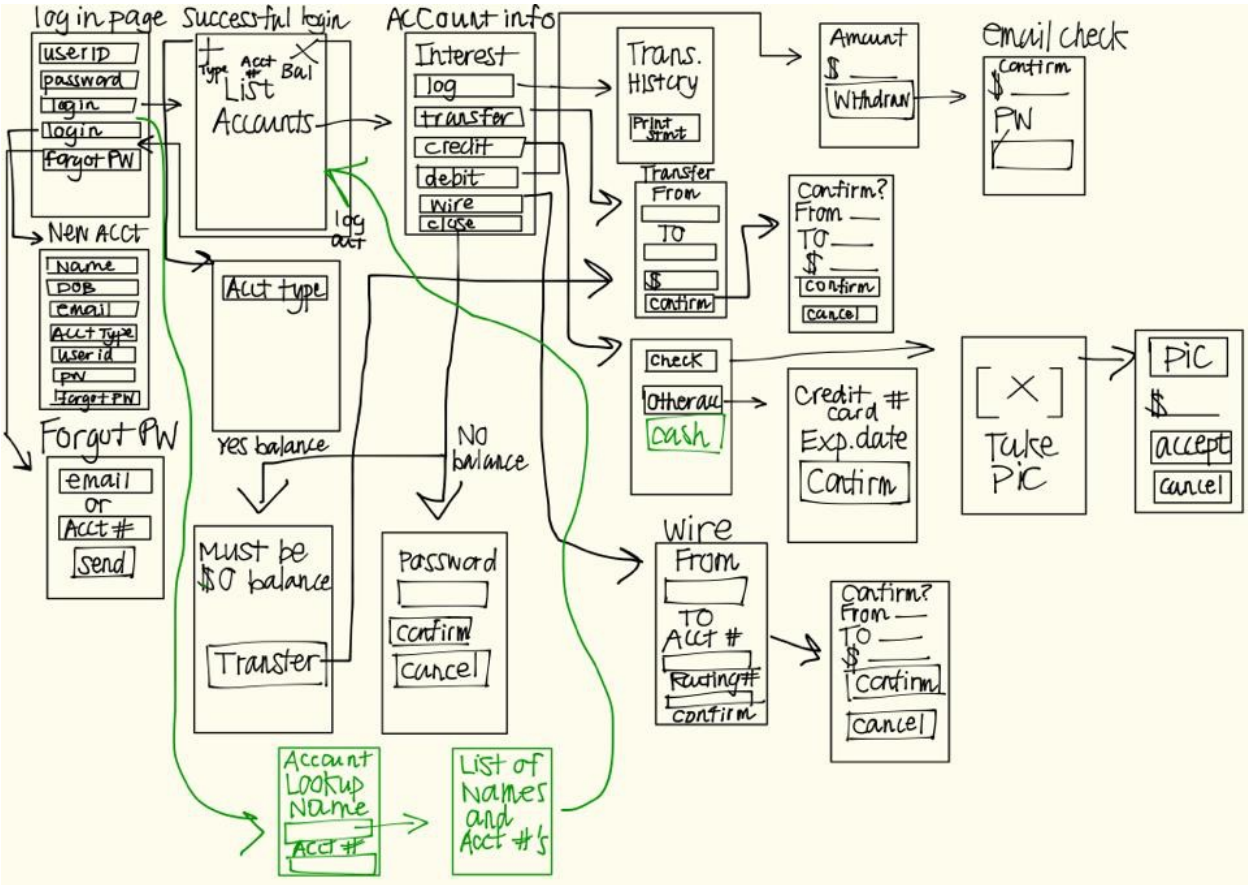

Account Lookup - Teller
Login
Account Lookup
Select Appropriate customer
Provide log in information
Enter customer's name or account number

4. Wireframes: Simple UI mock-ups and flow between them.

UI flow for Account Holder:



UI Flow for Bank Teller (Difference from Account Holder in green)



5. Project Risks and Mitigation plan

Risk	Counterplan
Calling in sick	Make sure everyone gets enough sleep
Midterms/Other classes/Out of town/Predictable conflicts	Let Project Manager know of any upcoming difficulties one may have
Unfamiliar with new technologies	Everyone should try to catch themselves up and get help from those who are experienced.
Holidays	Take them into account when planning ahead

6. Variations in the Requirements

- As of now, there are two types of accounts: teller and customer
    a. Tellers can access any customer's accounts in order to perform bank functions for them
    b. Customers can only access their own accounts and perform transactions with their own accounts.
- Different rules in interest rates based on account type

a. Checking Account Interest Rates
b. Savings Account Interest Rates
    i. As of now, these are the only differences between Checking and Savings

- Different rules in interest rates based on Account balance over 30 days
    a. Balance = $3000+ = 3% interest rate
    b. Balance = $2000-3000 = 2% interest rate
    c. Balance = $1000-2000 = 1% interest rate
- As of now, there are no rules on the number of accounts per customer, but may change.
- Different account types available to customer
    a. Checking
    b. Savings

7. User Acceptance Testing

User Acceptance Criteria:

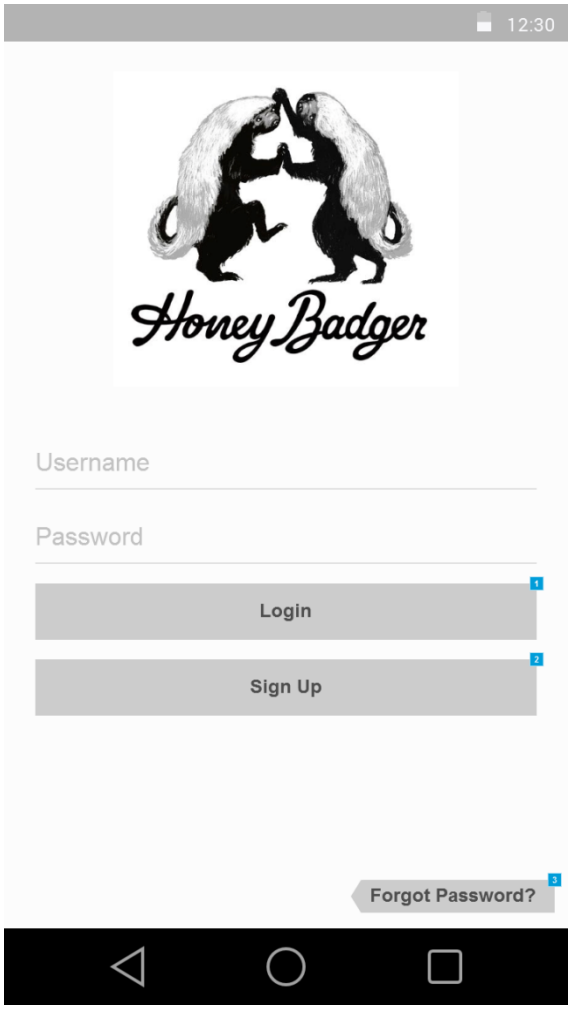
a. Create and Open Account
    i. Capture customer information to include name, address, Account Type (Saving or Checking)
        A. Observed results: Working as intended
    ii. Generate account information record
        A. Observed results: Working as intended
b. Securely login to your account
    i. Create a secure login which would ask for username and password from the user
        A. Observed results: Working as intended
    ii. 'Forgot Password' option
        A. Observed results: Not yet developed or ready for testing
c. Check the Balance on all Accounts
    I. Check the balances on all the accounts registered
        A. Observed results: Working as intended
d. Print Account Statement
    I. Displays the transaction history
        a. Observed results: Working as intended
e. Debit Account
    I. Check for zero balance
        a. Observed results: Working as intended
    II. Check withdrawal amount, that it is not greater than account balance
        a. Observed results: Working as intended
    III. Perform a withdrawal transaction
        a. Observed results: Working as intended
f. Credit Account
    I. Perform a deposit into the account
        a. Observed results: Working as intended
g. Transfer Funds
    I. Withdrawal from on account and deposit into another account
        a. Observed results: working as intended

h. Close Account
    I. Delete Account and its information
        a. Observed results: Working as intended
i. Calculate Penalty
    I. If balance is below $100 for 30 days, penalty of $25 is applied
        a. Observed results: Not yet developed or ready for testing
j. Calculate Interest
    I. Savings account rule: If balance is over $3000 for 30 days, an interest of 4% is applied to your account, over $2000 and below $3000 3%, over $1000 and below $2000 2%
        a. Observed results: Not yet developed or ready for testing
    II. Checking account rule: If your balance is over $3000 for over 30 days, an interest of 3% is applied to your account, over $2000 and below $3000 2%, over $1000 and below $2000 1%
        a. Observed results: Not yet developed or ready for testing
k. Any User can have Multiple Accounts
    I. Allow any user multiple accounts of any type
        a. Observed reults: Working as intended

Refined Wireframe (Does not include all of it):

1.1. Home

1.1.1. User Interface



1.1.2. Widget Table

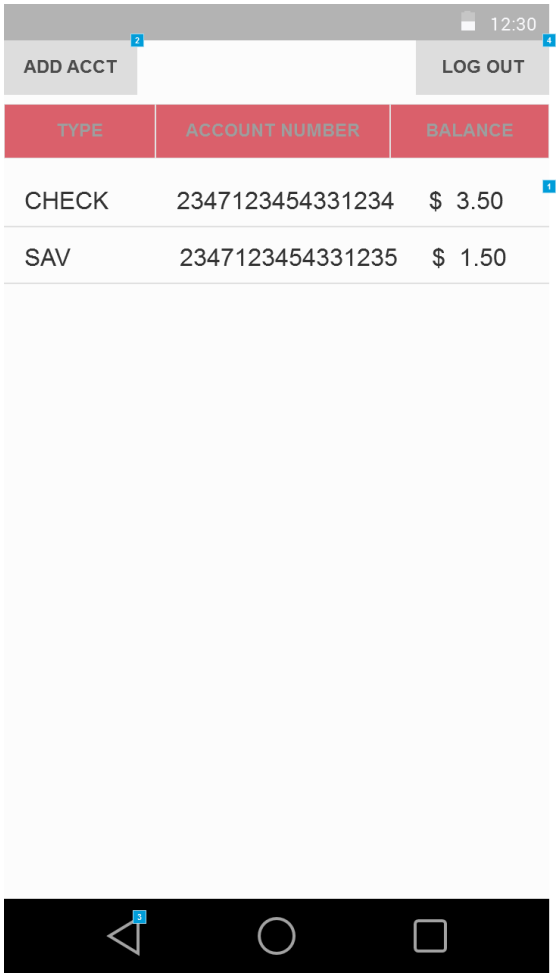
Foot-note	Interactions
1	OnClick: Case 1: Open Successful Login in Current Window
2	OnClick: Case 1: Open Sign Up Page in Current Window

Foot-note	Interactions
3	OnClick: Case 1: Open Sign Up Page in Current Window

1.1.0.

1.2. Successful Login

1.1.1. User Interface



1.1.2. Widget Table

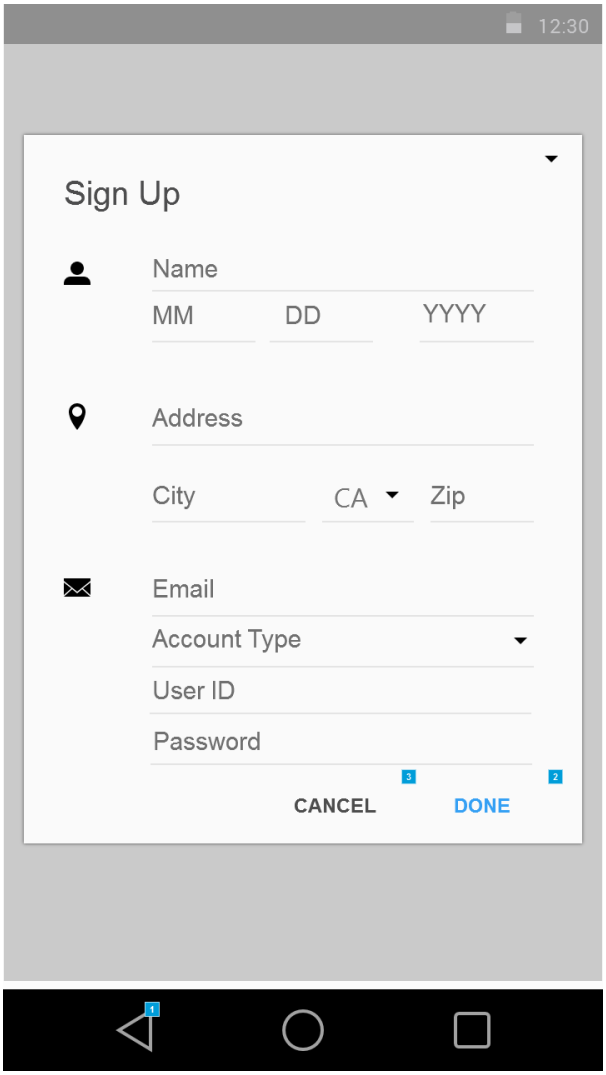
Foot-note	Interactions
1	OnClick: Case 1: Open Account Info in Current Window

Foot-note	Interactions
2	OnClick: Case 1: Open Add Account in Current Window
3	OnClick: Case 1: Open Home in Current Window
4	OnClick: Case 1: Open Home in Current Window

1.1.0.

1.3. Sign Up Page

1.1.1. User Interface



1.1.2. Widget Table

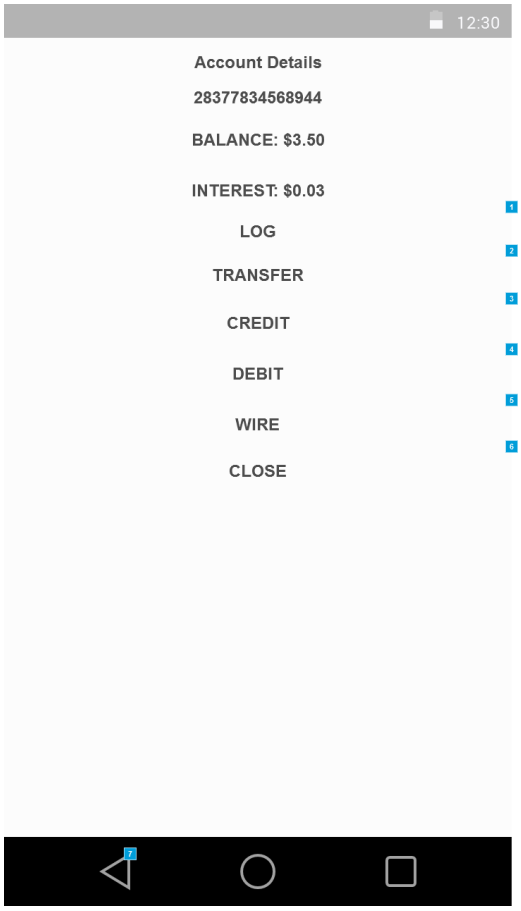
Foot-note	Interactions
1	OnClick: Case 1: Open Home in Current Window
2	OnClick: Case 1: Open Home in Current Window

Foot-note	Interactions
3	OnClick: Case 1: Open Home in Current Window

1.1.0.

1.4. Account Info

1.1.1. User Interface



1.1.2. Widget Table

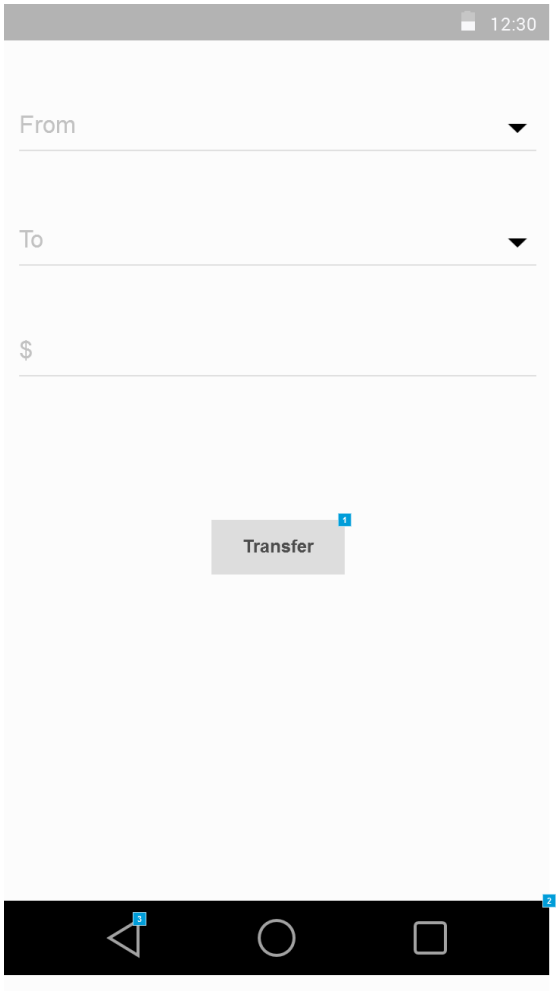
Foot-note	Interactions

Foot-note	Interactions
1	OnClick: Case 1: Open Log in Current Window
2	OnClick: Case 1: Open Transfer in Current Window
3	OnClick: Case 1: Open Credit in Current Window
4	OnClick: Case 1: Open Debit in Current Window
5	OnClick: Case 1: Open Wire in Current Window
6	OnClick: Case 1: Open Close - No Balance in Current Window
7	OnClick: Case 1: Open Successful Login in Current Window

1.1.0.

1.5. Transfer

1.1.1. User Interface



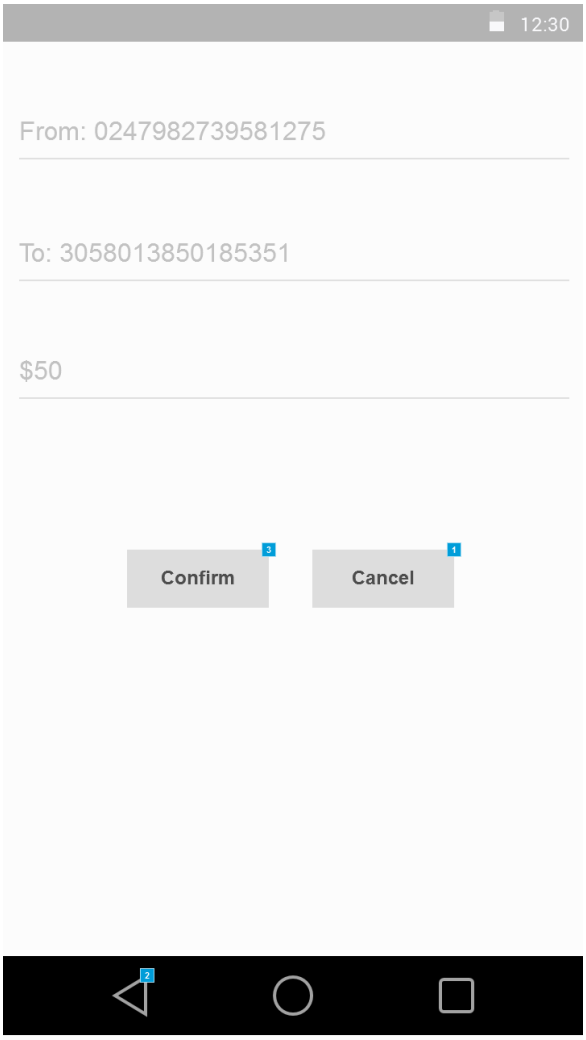
1.1.2. Widget Table

Foot-note	Interactions
1	OnClick: Case 1: Open Transfer Confirmation in Current Window
2	OnClick: Case 1:
3	OnClick: Case 1: Open Account Info in Current Window

1.1.0.

Transfer Confirmation

1.1.3. User Interface



1.1.4. Widget Table

Foot-note	Interactions
1	OnClick: Case 1: Open Transfer in Current Window
2	OnClick: Case 1: Open Transfer in Current Window
3	OnClick: Case 1: Open Account Info in Current Win-

Foot-note	Interactions
	dow