Fancy Bank

The Main class is located at windows builder.java

List of Classes

- 1. Account.java contain classes of object Account. It is to store the account data such as Account type, Amount of meny, currency and so on
- 2. Account controller. This is the main engine regarding account
- 3. AccountListView. This is the GUI of account that display a grid of list of account
- 4. AccountType is enum class for type of account, Checking and Saving
- 5. AddAccountView. This class is the GUI for adding an account
- 6. Currecny type is enum of list of currency
- 7. CustomerSideBar. This is the side panel that display menu bar when customer sign in to the system
- 8. Data. It is the place to store all the data and initialize the data. It is some kind of mock database
- 9. DepositWithdrawView. The GUI for deposit/withdrawal function
- 10. FeesAndInterest. To calculate fees and interest class
- 11. Loan. Java. This is the data model for loan
- 12. LoanAppilcation.java. The GUI for customer to request loan
- 13. LoanList.java GUI that contain the table of list of loan
- 14. LoanStatus is the Enum of Loan Status
- 15. LoanType is the enum of LoanType (Personal, Auto, Home Business)
- 16. LoggedUser. It is the data model of the user that is now logging in
- 17. Data Model that is used by NewLogin GUI
- 18. ManagerSideView. This is the side bar that contain menu bar when manager sign in
- 19. NewLoginController. The main engine that control Login
- 20. NewLoginView is the GUI for login page
- 21. PanelData. This is the initial set up of the GUI and the class that responsible in replacing the panel, side bar and the main panel
- 22. ProfileController. The main engine that is responsible for profile
- 23. ProfileView. The GUI of profile
- 24. Profiles. The data model of profile
- 25. SpringUtilities. Helper class that help to make form in the UI
- 26. Transaction. Data model for transaction
- 27. TransactionController. Main engine for Transaction
- 28. TransactionType is enum of transaction type (deposit, withdraw)
- 29. TransactionView. GUI for transaction
- 30. UserType. ENum of the user type (customer, bank manager)
- 31. WindowsBuilder.java The class that contain main function

I implemented the design pattern that almost resemble MVC (Model View Controller). I separated the view from the controller and the model so that it can be reused. The

controller decided which view to be displayed at any instances and which model to be populated or to be used to send data to the View.

The reasons to choose this method:

- 1. to decouple the view from the controller so that the View can be reused with minimal changes.
- 2. The same view can be called by many controllers as well.
- 3. If the project is done by multiple people, the development can be done faster and without overlaps since a developer can focus on one module only without interfering on other modules
- 4. Modification in one controller/views will not affect other views or controller

The view is a class that extends JPanel. When a view is called, this view replaces the existing JPanel in the GUI that is being displayed. The reason to do this is to make the view versatile. The view can be a completely new view or can be a combination of many views.

The flow

User will be prompted with login screen. The system will determine whether the user is a customer or bank manager and will display the side bar accordingly. User can also create an a account when he does not have an account yet in our system.

w	/elcome to Fancy Bank	
N l		
Please log i	n	
Email		
Password		
	Sign in	
	New User	

As a user: email: 0john@google.com

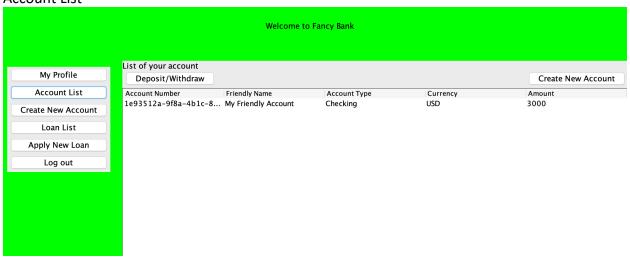
Pass: Password

When login is successful, user will be redirected to Profile page. He can choose to update his

profile information

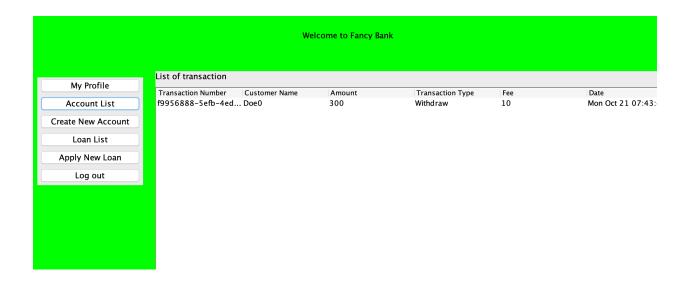


Account List

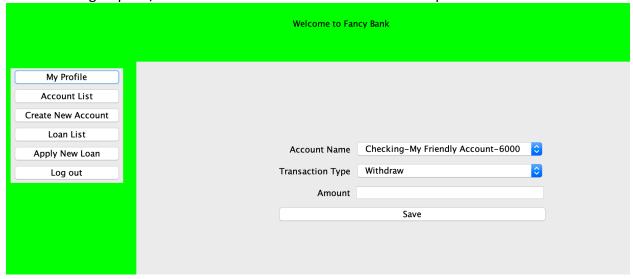


This page displayed all account that he has

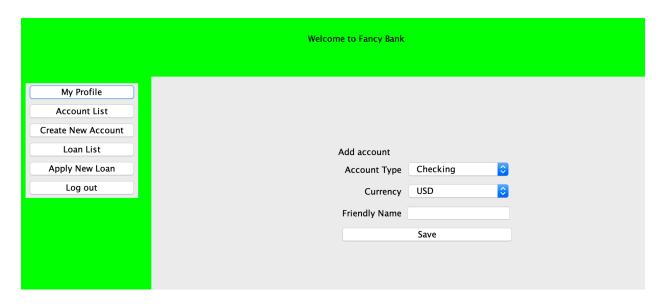
When clicking the record, system will redirect to list of transaction related to this account



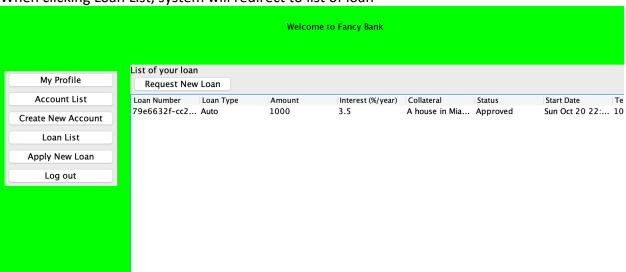
When clicking Deposit/Withdraw at Account list will redirect to deposit or withdraw screen



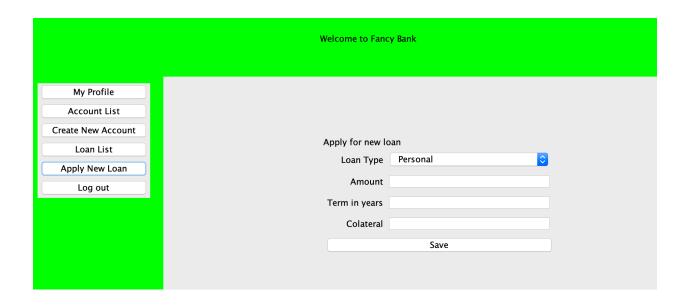
When creating Add New Account at the Account List screen or on side bar, System will redirect to creation of account



When clicking Loan List, system will redirect to list of loan



When clicking Apply New Loan from side bar or Request New Loan in Loan list screen, system redirects to Loan Application screen

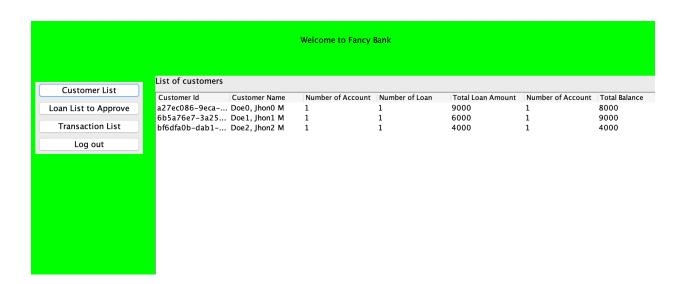


Log out will clear LoggedUser and redirect to login screen

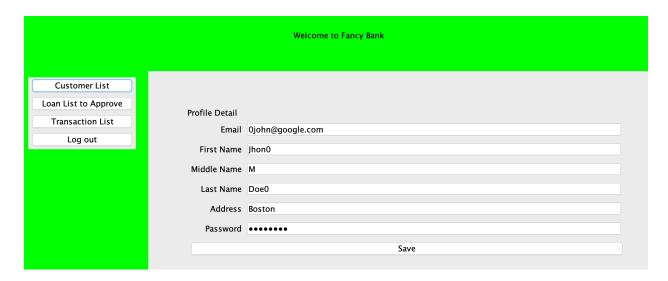
As A manager

Email: manager@google.com

Pass: Password



When clicking on the row of the record, system redirect to the profile of that clicked user



When clicking Loan List to Approve



When clicking Transaction list on side bar



When clicking New User in Login screen, sstem will redirect to Profile Page, but with empty form

Welcome to Fancy Bank			
	Profile Detail		
	Email		
	First Name		
	Middle Name		
	Last Name		
	Address		
	Password		
		Save	