



Team Assignment 5

 Due February 28 at 9:50 AM  Starts Feb 17, 2018 9:00 AM Ends Feb 28, 2018 10:00 AM

Topic: GUIs and Event Handling

Due Date: Wednesday, February 28 9:50 AM (no late submissions accepted)

Your first task is to ensure that the following classes from Assignment 4 are fully functional:

- BankAccount
- SavingsAccount
- Customer

Please use the provided test cases below to test the functionality of these classes before proceeding – note that there are additional test cases against which your code must run.

Next, create a setter method `getCustomer()` for the `BankAccount` class.

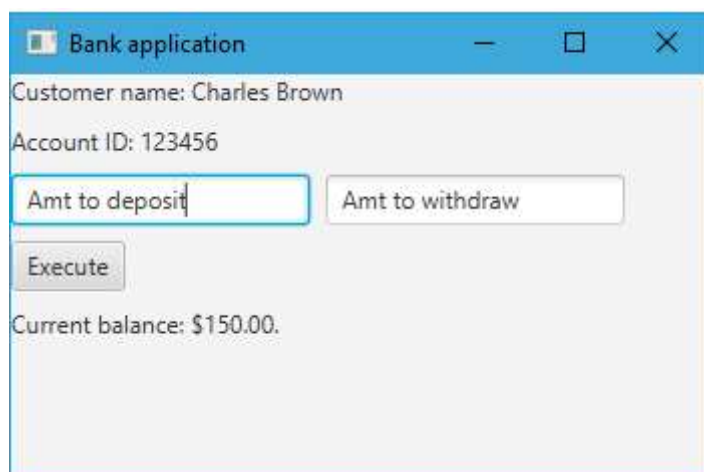
Now, create a new class `BankApplication`, which is a subclass of `javafx.application.Application`.

It should contain the following:

Instance Variables

- Customer (give the customer a name and an account ID)
- SavingsAccount (starting balance of \$150.00, and the customer you have created as an instance variable)
- The following GUI controls:
 - Labels: `customerNameLabel`, `customerIDLabel`, `balanceLabel`
 - Text fields: `depositTextField`, `withdrawTextField` Button: `executeButton`

They should be laid out as follows:



Each label and button should be on its own line, but the text fields should be next to each other.

(Hints: Recall that you can add one Group (such as a `Hbox`) to another Group (such as a `VBox`). TextFields can be initialized by calling the `setPromptText()` method)

Instance Methods -

```
public static void start(Stage primaryStage) throws Exception
```

You must also implement an event handler for the Execute button. It should handle events of type `ActionEvent`. This may be its own class, or an internal class.

The application must do the following:

- accept input in either (or both) text fields (You should check for valid input, and reset the text fields if the input is not valid).
- When the Execute button is clicked, the amount indicated is respectively deposited or withdrawn from the balance of the `SavingsAccount`, then both text fields are reset, and the balance updated. (Hint: you can read the text currently in a `TextField` by calling the `getText()` method)

Before handing in your code, use the following scenarios to manually test your code:

1. New instance of the application, deposit \$100
2. New instance of the application, withdraw \$100
3. New instance of the application, deposit \$100, deposit \$50
4. New instance of the application, withdraw \$100, withdraw \$50
5. New instance of the application, deposit \$100, withdraw \$50
6. New instance of the application, withdraw \$43.72, deposit \$43.72

0 % 0 of 2 topics complete

SavingsAccountTest.java

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