Java Project - Currency converter program:

Program goal:

Program will convert currency between USD (United States Dollars) and ILS (Israeli Shekel).

Solution architecture:

General:

<u>Development platform:</u> program will be developed in Java in Intellij idea IDE.

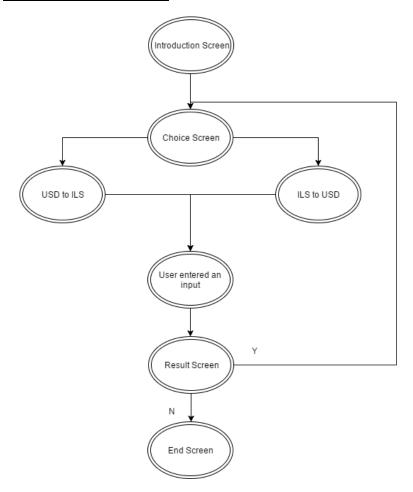
<u>Distribution type:</u> Private.

Networking type: None (offline).

Localization: English (US).

Conventions: Java Conventions.

General system diagram:



Guidelines:

General:

- 1. Where necessary protect code blocks with error handling ways.
- 2. Use Java "Scanner.class" for receiving input from user.
- 3. If user choose an invalid choice, let user choose again and show user the following text: "Invalid Choice, please try again".
- Create an abstract class named Coin with abstract method getValue() which returns a double.
- 5. Create 2 classes ILS and USD that **extends** Coin class, and implement the abstract method getValue().
- 6. Create a **final** double variable named **value** containing 3.52 in USD class and 0.28 in ILS class.
- 7. Use the getVlaue() method in both USD and ILS classes to return the value variable.
- 8. Use getVlaue() from ILS and USD classes to perform the calculations in your main.
- 9. Each method has to be documented with comments.

Screens:

First screen (Welcome Screen)-

Will have following text: "Welcome to currency converter"

"Please choose an option (1/2):"

"1. Dollars to Shekels"

"2. Shekels to Dollars"

<u>Second screen (Choice Screen) –</u>

Will have following text: "Please enter an amount to convert" (amount will be in double).

Third screen (Result screen) -

- 1. Will show user the result.
- 2. Result will be saved in an array.
- 3. Ask user if to start over Y / N.

Y – Will start cycle again (First screen without "welcome.." text).

N – Will show end screen.

Fourth Screen (End Screen) -

- 1. Will have following text: "Thanks for using our currency converter".
- 2. Will print all previous results from results array.

** Screen means to show in console

Bonus – Create the project using JavaFX / Java Swing.