

# Bank Account Registration

## Problem Statement:

← Classroom

Beans Scope and Lifecycle  
Bank Account Registration

Problem

Submissions

Solutions

Doubts

Bank Account Registration

Easy • Score 80/80 • Core Java • Spring Hibernate

Problem statement

Send feedback

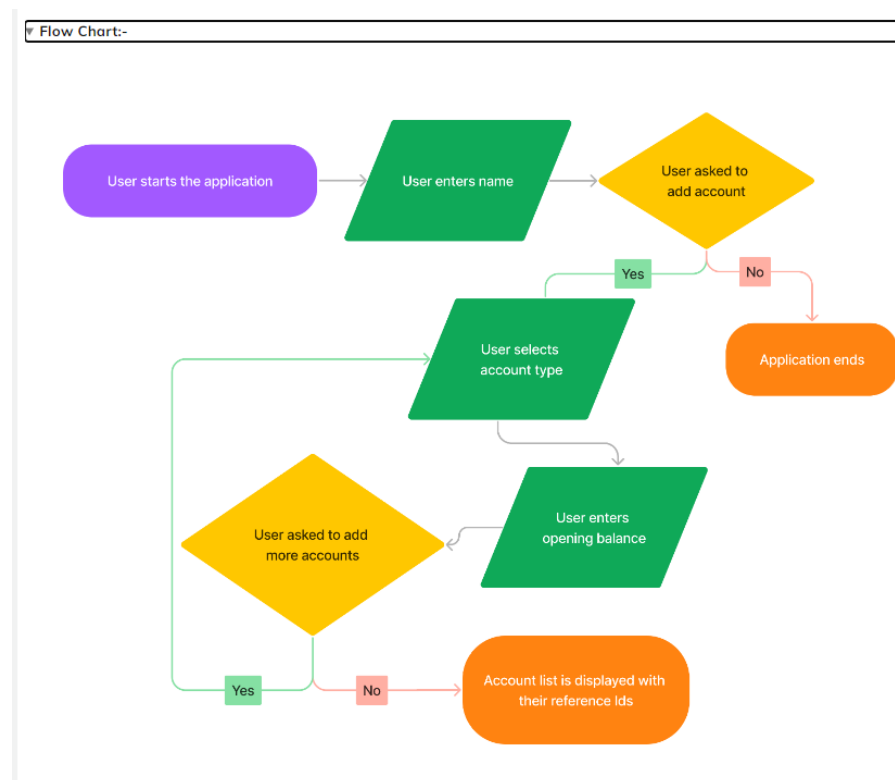
A developer is creating a **Bank Account Registration** Application, which helps users to create bank accounts. He needs help to complete the console application using Spring Boot and concepts of dependency injection.

The application will contain users and, Accounts. Users will be able to create multiple accounts of type current and savings.

Tasks:-

- Complete the myUser class, which implements the User interface
  - Add attributes:
    - String name
    - List accountList
  - Override the interface methods as mentioned below:
    - setUserDetails(String name): This method sets the name attribute.
    - addAccount(Account account): This method adds an account to the accountList.
    - getAllAccounts(): This method retrieves the complete list of accounts including savings and current.
    - getName(): This method returns the name attribute.
- Complete the currentAccount and savingAccount classes, both of which implement the Account interface.
  - Create attribute amount(double)
  - Override the following interface methods:
    - getAccountType(): This method returns the type of Account in string format, for example "Current Account".
    - addBalance(double balance): This method increments the value for the balance attribute based on the user input. for example, if the initial value of the balance was 10 and the user inputted 5, then the final value of the balance will be 15.
    - getBalance(): This method returns the balance amount in double format.
- In the ApplicationContext.xml file:
  - Create a user bean with a singleton scope.
  - Create current and savings account beans with prototype scope.
- In the main method, load context from the ApplicationContext.xml file which is located in "src>main>resources" and create the application as shown in the flowchart.

## Flow Chart:



## Output:

```
Welcome to Account Registration Application!
Please enter Your name?
John
Do you want to add account
1. Yes
2. No
1
Please select the account type
1. Current
2. Savings
1
Enter the opening balance
120
Do you want to add more accounts
1. Yes
2. No
1
Please select the account type
1. Current
2. Savings
1
Enter the opening balance
220
Do you want to add more accounts
1. Yes
2. No
1
Please select the account type
1. Current
2. Savings
2
Enter the opening balance
400
Do you want to add more accounts
1. Yes
2. No
1
Please select the account type
1. Current
2. Savings
2
Enter the opening balance
500
Do you want to add more accounts
1. Yes
2. No
2
Hi John, here is the list of your accounts:
Current Account : opening balance - 120.0 Reference Id @1f2586d6
Current Account : opening balance - 220.0 Reference Id @7dcf94f8
Savings Account : opening balance - 400.0 Reference Id @229f66ed
Savings Account : opening balance - 500.0 Reference Id @31190526

Process finished with exit code 0
```