Main Flowchart

Start

↓

Display Sign In GUI

B →

↓

Event Listener user action

— Sign Up → Create Account (↑ to Start)

↓ Sign In

Sign In

↓

End

Create Account Flowchart

Start

↓

Display Sign Up GUI

Event Listener user action

— Sign In → Dispose Create Account

↓ Register

GET firstName

↓

GET lastName

↓

GET pin

↓

GET initialDeposit

↓

A

A →

Dispose Create Account

↓

Main

↓

End

Sign In Flowchart

Start

↓

GET accountName

↓

GET pin

↓

is credentials correct?

— Yes → DISPLAY "Successfully Log In"

↓ No

DISPLAY "Incorrect Credentials."

↓

B

DISPLAY "Successfully Log In"

↓

Dipose Sign In

↓

Dashboard

↓

End

Dashboard

Start

A

Event Listener user action —— Deposit Button ——→ **Add Deposit**

No ↓

Event Listener user action —— Transfer Button ——→ **Transfer Money** ——→ A

No ↓

Event Listener user action —— Withdraw Button ——→ **Withdraw**

No ↓

Event Listener user action —— Log Out ——→ **Main** ——→ END

Deposit

START

A

GET deposit

if (amount <=0) —— No ——→ DISPLAY "Deposit amount must be greater than than zero" ——→ A

Yes ↓

DISPLAY "Successfully deposited {amount} New balance: {amount}"

↓

Generate Receipt

↓

Dashboard

↓

END

WITHDRAW

START

GET amount

if (amount <=0) — YES → DISPLAY "Withdraw amount must be greater than zero"

NO

bal>amount — NO → DISPLAY "insufficient balance" → A

YES

DISPLAY "Successfully transferred"

generate Receipt

Dashboard

END

TRANSFER MONEY

START

A

GET recipient

if (!userExists (recipient)) — NO → DISPLAY "recepient does not exist" → A

YES

GET amount → if (amount <=0) — YES → DISPLAY "Transfer amount must be greater than zero"

NO

bal>name — NO → DISPLAY "insufficient balance" → A

YES

DISPLAY "Successfully transferred"

generate Receipt

Dashboard

END