

# MS Software Engineering, CS7130

## Assignment 1

Q: Find which SOLID principles are violated in the below class diagram, explain how? Modify the class diagram to satisfy SOLID principles.

### The Mobile Funds Transfer User Interface

The user interface of Mobile banking needs to be very flexible. The gives an option to its users to transfer funds to the same bank account and other bank accounts. To cater to both scenarios following design is proposed where Funds Transfer UI handles taking input of source account, destination account, amount, and conditional destination bank selection if the user selects to transfer the amount to another bank. The controller executes the transaction by calling UI operations to take input and then calls validate input and then the controller executes the transaction. For the time being this much system has been modeled and how the transaction executes and interacts with other classes and components is not yet designed.

Each funds transfer has its own set of rules that are implemented in ValidateInput like funds transfer to another customer in the same bank has transfer limit of PKR 100,000 and transfer limit to other bank customer is PKR 50,000.

In the future own accounts funds transfer feature needs to be added so that the user can transfer funds between its accounts like from current to savings and vice versa. The limit for transfer to own account is PKR 200,000.

