In Class 5; Class Specification

Class selected; Customer

Method Signature; transferFunds()

Parameters or arguments to pass;

Amount to be transferred; amount transferrable

Account number of recipient; account number

Receiver of the funds being transferred; receiver name

Types of values to be returned

The function typically returns nothing, from state diagram submitted, there will only be a change of state if the conditions are met, so the return type will be None

Complete method signature; transferFunds(receiver_name | string, account_number | int,
amount_transferrable | float) -> None

Definition of constraints that must be preserved

Preconditions;

The customer's bank balance must be greater than amount_transferrable; [customer_balance > \${amount_transferrable}]

The receiver's amount must be either be \$5 or greater than \$5; [amount_transferrable >= \$5]

The receiver's account must be verified and valid; [account number != None]

Postconditions;

Daily transaction limits are updated; [daily_transactional limits updated to {limit - amount transacted that day}]

Balance of customer is updated; [customer balance updated]

Transaction list is updated; [transaction.state = success]

Invariants;

Customer currency must always be the same as the receiver's currency.

Handling Constraints violations

Raise a ValueError for each condition not satisfied, in any preconditions.

Raise a ValueError for any, or all postconditions violated.

Raise a ValueError for invariant violated.

Members that contributed

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References

ChatGPT; https://chatgpt.com/

 $Stack\ overflow;\ \underline{https://stackoverflow.com/questions/11331964/what} - are-the-differences-pre-condition-post-condition-number of the properties of the$

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