

CSCI 3060U/SOFE 3980U
Course Project Assignment #2: Front End Rapid Prototype – Design Document
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1. List of all classes and methods and their descriptions

Class	Method	Description
FileWriter		FileWriter class contains methods to write data to the Bank Account Transaction File. The TransactionProcessing class is dependent on this.
	WriteToFile()	Public method used to write data to the Bank Account Transaction File.
FileReader		FileReader class contains methods to read data to the Bank Account Transaction File. The TransactionProcessing class is dependent on this.
	ReadFile()	Public method used to read data from the Bank Account Transaction File.
TransactionProcessing		TransactionProcessing class contains all the methods to process commands and transactions requested by user. This class is dependent on, and contains only one instance of, the FileWriter and FileReader classes.
	TransactionProcessing()	Sets default login and input types
	startTransaction()	Public method to request transaction type from user (eg. Paybill, deposit, etc).
	readCommand()	Function used to get user input (either text input or file input).
	login()	Public method used to log in to ATM. Accepts String input and returns a Boolean value to indicate success or failure.
	withdrawal()	Public method used to withdraw money. Accepts String input and returns a Boolean

		value to indicate success or failure.
	transfer()	Public method used to transfer funds between accounts. Accepts String input and returns a Boolean value to indicate success or failure.
	paybill()	Public method used to pay utility or other bills. Accepts String input and returns a Boolean value to indicate success or failure.
	deposit()	Public method used to deposit funds into user account. Accepts String input and returns a Boolean value to indicate success or failure.
	create()	Public method used to create a user account. Method can be called in admin mode only. Accepts String input and returns a Boolean value to indicate success or failure.
	delete1()	Public method used to delete a user account. Method can be called in admin mode only. Accepts String input and returns a Boolean value to indicate success or failure.
	enable()	Public method used to enable a user account. Method can be called in admin mode only. Accepts String input and returns a Boolean value to indicate success or failure.
	disable()	Public method used to disable a user account. Method can be called in admin mode only. Accepts String input and returns a Boolean value to indicate success or failure.
	changePlan()	Public method used to change a user's account from a Non-Student Plan to a Student Plan. Method can be called in admin mode only. Accepts String input and returns a Boolean value to indicate success or failure.

	logout()	Public method used to logout of current banking session. Accepts String input and returns a Boolean value to indicate success or failure.
	parse()	Function used to read account holder details from account number.
	trim()	Function used to trim strings to extract data.

2. UML Diagram depicting the classes and methods outlined in the table

