Markup

User
- userId : Integer
- login : String
- password : String
- name : String
- surname : String

UserManager
- idLoggedUser : Integer
- users : vector <User>
- userXlmFile:UserXlmFile

- giveNewUserData() : User
- loginExists() : String

UserManager()
+ getNewUserId() : Integer
+ getLoggedUserId() : Integer

+ userSignUp() : void
+ viewAllUsers() : Integer
+ userSignIn() : void
+ changePasswordOfLoggedUser() : void
+ userSignOut() : Void
+ checkIfUserIsLoggedIn() : Bool

UserFile
- UserFile() : String

+ UserFile()
+ addUserToFile() : void
+ loadUserFromFile() : vector <User>
+ saveAllUsersToFile() : void

PersonalBudget
- userManager : UserManager
- *financeManager : FinanceManager
- USER_FILE_NAME : String
- INCOMES_FILE_NAME : String
- EXPENSES_FILE_NAME : String

+ PersonalBudget()
+ PersonalBudget()

+ getLoggedUserId() : Integer

+ userSignUp() : void
+ viewAllUsers() : void
+ userSignIn() : void
+ changePasswordOfLoggedUser() : void
+ userSignOut() : void

+ addIncome() : void
+ addExpenses(0 : void

+ checkIfUserIsLoggedIn() : Bool

+ selectOptionFromMainMenu() : Char
+ selectOptionFromUserMenu() : Char

+ balanceFromCurrentMonth() : void
+ balanceFromLastMonth(): void
+ balanceFromChoosenPeriod() : void

Income
- numberOfRecord : Integer
- userId : Integer
- date : String
- category : String
- amount : Float

FileIncome
lastNumberOfRecord : Integer

FileIncome()
getIdLastNumberOfRecord : Integer
setIdLastNumberOfRecord : Integer
addIncomeToFile : void
loadIncomesLoggedUserFromFile() : vector <Income>

Expense
- numberOfRecord : Integer
- userId : Integer
- date : String
- category : String
- amount : Float

FileExpence
lastNumberOfRecord : Integer

FileExpense()
getIdLastNumberOfRecord : Integer
setIdLastNumberOfRecord : Integer
addExpenceToFile : void
loadExpenceLoggedUserFromFile() : vector <Expense>

FinanceManager()
- incomes : vector <Income>
- expences : vector <Expense>

addIncome : void
addExpense : void
viewBalance: void

sortIncomesAndExpenses() : void

balanceFromCurrentMonth() : void
balanceFromLastMonth(): void
balanceFromChoosenPeriod() : void

Date
date : String
day : String
month : String
year : String

AuxiliaryMethods
+ conversionIntToString() : String
+ getTheLine() : String
+ convertFirstLetterToUppercaseRestLower() : String
+ conversionStringToInt() : Integer
+ getNumber() : String
+ getCharacter() : Char
+ getInteger() : Char

DateManager()
MIN_VALID_YEAR : Integer

getDateFromSystem : Integer
takeDateFromUser : Integer
checkingPositionDashesInDate : String
getYearFromDate : Integer
getMonthFromDate : Integer
getDayFromDate : Integer
returnNumberDaysFromDate: Integer
setStartDate : Integer
getDate : String
isDateCorrect : Bool
checkIfDateHasDigits : Bool

XlmFile
FILE_NAME : String

+ XlmFile()
+ getFileName : String
+ checkFileNameIsEmpty : Bool