

2023/06/05 Class Diagram6 **pkg** system <<interface>> Typable

+ type(): String + typeToString() : String Portfolioltem - serialVersionUID : long = -5768673627426901509L - asset : Asset Asset - result : Order - orders : ArrayList<Order> - serialVersionUID : long = 7883369158822293408L - name : String + PortfolioItem(asset : Asset) - code : String + toString() : String + Asset(name : String, code : String) + ordersToString() : String[] + getCurrentPrice() : double + getResult() : Order + toString() : String + insertOrder(amount : int, price : double, year : int, month : int, day : int) : void + verifyCode(code : String) : boolean + dataInString(separator : String) : String + getCompiledReturnData(startDate : Calendar) : ReturnData[] + verifyCode(code : String) : boolean + comparesAsset(asset : Asset) : boolean - sortOrders(): void - updateResult(amount : int) : void

- serialVersionUll - totalValue : dou - rangeDate : lonզ

+ ReturnData(tota

+ getTotalValue() + getRangeDate(

Stock

- serialVersionUID : long = 4204100887199361489L
- price : double
- + Stock(name : String, code : String, price : double)
- + getCurrentPrice() : double + typeToString(): String
- + type() : String
- + toString() : String

- serialVersionUID : long = -5438131655293857469L
- price : double
- maturityPrice : double
- maturityDate : Calendar
- + Bond(name : String, code : String, price : double, maturityPrice : double, year : int, month : int, day : int)
- + Bond(yield : double, name : String, code : String, maturityPrice : double, year : int, month : int, day : int)
- + getCurrentPrice() : double
- + toString() : String
- + dataInString(separator : String) : String
- + getYield() : double
- · getPriceByYield(yield : double, maturityDate : Calendar) : double

TreasuryBond

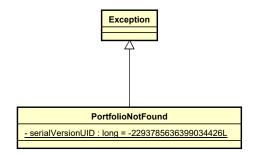
- serialVersionUID : long = -6725471990331549068L

- + TreasuryBond(name : String, code : String, price : double, maturityPrice : double, year : int, month : int, day : int)
- + TreasuryBond(yield : double, name : String, code : String, maturityPrice : double, year : int, month : int, day : int)
- + typeToString() : String
- + type() : String

- serialVersionUll

- + CorporateBond
- + CorporateBond
- + typeToString() + type() : String

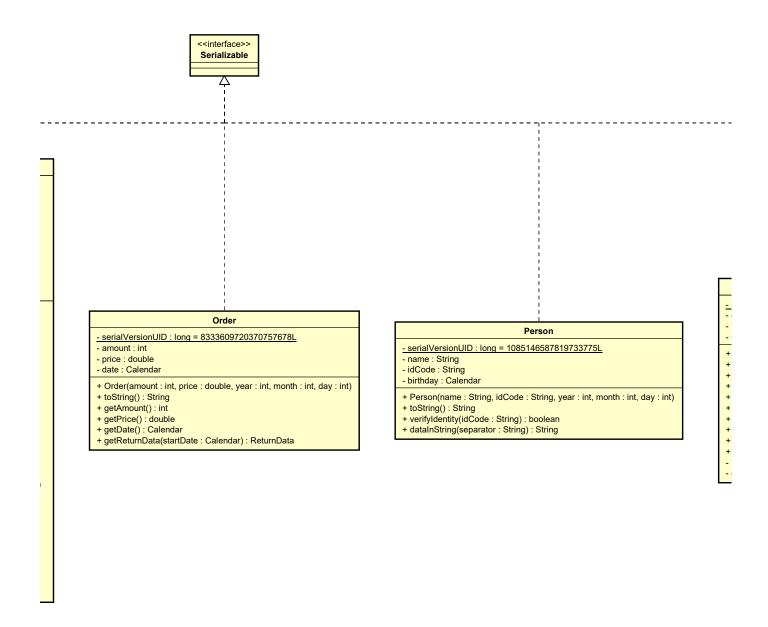
BrokerageFirm - serialVersionUID : long = -607703662365884551L + DEFAULT_INTERFACE_TITLE : String = "Sistema de portf□lio" + DEFAULT INTERFACE ICON PATH : String = "data/imgs/dolar-sign.png" + DEFAULT INTERFACE DIMENSION: Dimension = new Dimension(480,720)
+ DEFAULT INTERFACE SAVE DATA PATH: String = "data/output/data.dat"
+ DEFAULT INTERFACE SAVE ASSETS PATH: String = "data/output/assets.csv" + DEFAULT INTERFACE SAVE PERSONS PATH : String = "data/output/persons.txt" + MAIN INTERFACE OPTIONS : String[] = { "Adicion... + assets : ArrayList<Asset> + portfolios : ArrayList<Portfolio> - gui : GUI + BrokerageFirm() + BrokerageFirm(title : String, iconPath : String, dimension : Dimension) + saveData(brokerageFirm : BrokerageFirm, path : String) : void + loadData(path : String) : BrokerageFirm + saveData(path : String) : void ReturnData D : long = -4244008446236926726L + startGUI(): void ble + insertClient(name : String, idCode : String, year : int, month : int, day : int) : boolean + verifyClient(idCode : String) : boolean alValue : double, rangeDate : long) + addStock(name : String, code : String, price : double) : boolean + addTreasuryBond(name : String, code : String, price : double, maturityPrice : double, year : int, month : int, day : int) : boolean): double + addTreasuryBond(yield : double, name : String, code : String, maturityPrice : double, year : int, month : int, day : int) : boolean + addCorporateBond(name : String, code : String, price : double, maturityPrice : double, year : int, month : int, day : int) : boolean (): long + addCorporateBond(yield : double, name : String, code : String, maturityPrice : double, year : int, month : int, day : int) : boolean + listAssets() : String[] + insertAssetOnPortfolio(idCode : String, assetCode : String) : boolean + listAssetsOnPortfolio(idCode : String) : String[] + insertOrderOnPortfolio(idCode: String, assetCode: String, amount: int, price: double, year: int, month: int, day: int): boolean + listOrdersOnPortfolio(idCode : String) : String[] + getPortfolioReturn(idCode : String) : double + getPortfolioReturnAnualized(idCode : String) : double + addPersonsFromTxt(path : String) : int + addAssetsFromCSV(path : String) : int + getPersonsToTxt(path : String) : void + getAssetsToCSV(path : String) : void



- insertAsset(asset : Asset, code : String) : boolean

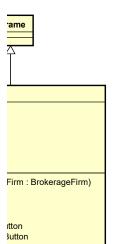
- getAsset(code : String) : Asset - getPortfolio(idCode : String) : Portfolio

CorporateBond D:long = 2358371332102565300L I(name : String, code : String, price : double, maturityPrice : double, year : int, month : int, day : int) I(yield : double, name : String, code : String, maturityPrice : double, year : int, month : int, day : int) : String



Utils + DEFAULT DATE SEPARATOR : String = " " + round(number : double, places : int) : double + daysBetweenDates(initialDate : Calendar, endDate : Calendar) : long + dateToString(date : Calendar, monthAsName : boolean, reversed : boolean) : Str + dateToString(date : Calendar, separator : String, monthAsName : boolean, revers serialVersionUID : long = -302240900615363795L + BORDER SPACE : int = 40 - title : String - dimension : Dimension - brokerageFirm : BrokerageFirm - userIdCode : String **Portfolio** + GUI(title : String, iconPath : String, dimension : Dimension, brokerageF serialVersionUID : long = 2140517850794994741L + start(): void - startNewPage(): Container portfolioItems : ArrayList<PortfolioItem> - loadNewPage(container : Container) : void startDate : Calendar - createLeftEndButton(text : String, actionListener : ActionListener) : JBu - createRightEndButton(text : String, actionListener : ActionListener) : JB Portfolio(name : String, idCode : String, year : int, month : int, day : int) ownerToString(): String - createLabel(text : String, y : int) : JLabel ownerDataInString(separator : String) : String - createTextField(y : int) : JTextField verifyIdentity(idCode : String) : boolean - createRadiusButtons(options : String[], y_jump : int, y_base : int) : JRac insertPortfolioItem(asset : Asset) : boolean - createRegister(labels : String[], y_base : int) : TextInput[] $insertOrder(code:String,\,amount:int,\,price:double,\,year:int,\,month:int,\,day:int):boolean\\$ - $createScrollTextArea (data: String[], IineSeparator: String, y_base: int$ assetsToString() : String[] ordersToString() : String[] - createConfirmWindow(title : String, message : String) : int - setPageMain(): void - setPageLogin() : void getReturn(): double getReturnAnualized(): double - setPageSignIn(): void hasPortfolioItem(asset : Asset) : boolean - setPageAddStock(): void getPortfolioItem(code: String): PortfolioItem - setPageAddBond() : void - setPageListAssets(): void - setPageInsertAssetToPortfolio() : void - setPageListAssetsInPortfolio() : void - setPageInsertOrderToPortfolio(): void - setPageListOrdersInPortfolio(): void - setPageGetReturnOfPortfolio(): void setPageSaveData(): void BasicKeyListener TextInput - keyCode : int - label : JLabel action : ActionListener textField : JTextField + BasicKeyListener(keyCode : int, action : + TextInput(label : JLabel, textField : JTextField) + keyTyped(e : KeyEvent) : void + getLabel(): JLabel + keyPressed(e : KeyEvent) : void + keyReleased(e : KeyEvent) : void + getTextField() : JTextField





dioButton[]

t) : JScrollPane

