

GuisetupMenu -serialVersionUD: long -serialVersionUD: long -srialVersionUD: long -srow		1	<u> </u>
	<pre><<extends jpanel="">> GuiSetupMenu</extends></pre>	serialVersionUID: 1 PATH: String PATH: String FILE ENDING: String buttonBegin: JButto buttonCacel: JButt buttonCacel: JButt userName: JTextFiel startingMoney: JTex startbate: JTextFiel intervalLength: JTe intervalLength: JTe	KIndex: JComboBox ameme: JComboBox JomEvents: JCheckBox Sutton(): JButton[] IntervalLength(): String[] intervalLength(): String[] intervalLength(): String DptionRandomEvents(): StartingMomey(): String tartingMomey(): String tartingMomey(): String storkIndex(): String

<pre><-extends JPanel>></pre>	_				<u>=</u> .			_		_		
		< <extends jpanel="">></extends>	GuiLoadState	= "		-buttonLoad: JButton	-buttonCancel: JButton	-filename: JComboBox <string></string>	+getButton(): JButton[]	+getChosenFilename(): String	<pre>-getFilenames(): String[]</pre>	+init(): JPanel

	GuiGraph	
	-GRAPH_STROKE: Stroke	
	-listsize: int	
	-index: int	
	-full: boolean	
	-currentsize: int	
	-padding: int	
	-labelpadding: int	
	-lineColor: Color	
_	-pointColor: Color	
_	-gridColor: Color	
_	-pointWidth: int	
	-numberYDivisions: int	
_	-scores: double[]	
	+format: DecimalFormat	
	-getMaxScore(): double	
	-getMinScore(): double	
	+getNextValue(person:Player): double	
	+getScores(): double[]	
	#paintComponent(g:Graphics): void	
	+setScores(scores:double[]): void	
	+updateGraph(peron:Player): void	
	+< <static>> createAndShowGui(scores:double[]): void</static>	oid
	+reset(): void	

```
+getSymbol(): String
-invertArray(array:String[]): Strgin[]
+isValidDate(startdate:String_interval:int,
+mberofIntervals:int): boolean
+scrapePrice(symbol:String,startdate:String,
interval:int,numberOfIntervals:int): double[]
                                                                                                                                                                                                                                                                                                                  currentdate:String): boolean
-daysBetween(date1:Date,date2:Date): int
-fillData(array:String[]): String[]
+getCopy(original): String)
interval:int,numberOfIntervals:int): Investmen
+getDateCode(startDate:String): String
                                                                                                                                                                                                                                     <<extends Investment>>
                                                                                                                                    -stockSymbol: String
+INVESTMENT_TYPE: String = "STOCK"
-stockSymbol: String
                                                                                       = "yyyy-M-d"
                       Stock
```

+addQuantity(quantity:int): void
+calculatePerformante(index:int): void
+getChange(): double
+getCurrentUnitPrice(): double
+getInvestmentType(): String
+getInvestmentType(): String

currentUnitPrice: double

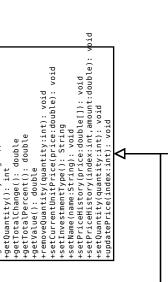
investmentType: String percent: double priceHistory: double[]

change: double

totalPercent: double totalChange: double

Investment

+getPriceHistoryLength(): int +getPercent(): double
+getPrice(): double
+getPriceHistory(): double[]



<<extends Investment>> **PrecionsMetal**

<<extendJPanel>>

+FILENAME: "Tring = resources/londonfixes.csv +DATE_FORMAT: String = "yyyy.M-d" +INVESIMENT TYPE: String = "METAL" -type: Metal

-calculateEndDate(startdate:String,interval:int, numberOfIntervals:int): String -dateBetween(startdate:String,enddate:String, currentdate:String): boolean fillData(array:String[]): String[] +getType(): Metal

calculateEndDate(startdate:String,interval:int, numberOfIntervals:int): String +FILENAME: String = resources/bitcoin_prices. +DATE_FORMAT: String = "yyyy-M-d" +INVESTMENT_IYPE: String = "BITcoIN" dateBetween(startdate:String,enddate:String, currentdate:String): boolean <<extends Investment>> BitCoin

-fillData(array;String[]): String[]
+isValidDate(startdate:String,interval:int,
numberOfIntervals:int): boolean
+loadPrice(startdate:String,interval:int,
numberOfIntervals:int): double[]

Player -userName: String -wittyPhrases String -wittyPhrases String -untialWones; double = 0.0 -currentWoney; double = 0.0 -investmentList: ArrayList=Chouble> -thlayer(name:String,initialShekels:double,wealthHistory: ArrayList=Chouble> -thlayer(name:String,initialShekels:double, listStocks:ArrayList=String, initialShekels:double, listStocks:ArrayList=String, initialShekels:int, index:int) -addBitCoin(startbate:String,intervalLength:int, numberOfIntervals:int, index:int) -addBitCoin(startbate:String,int) woid +addOwnedInvestment(ownedInvestment:Investment): void +addStock(stockSymbol:String,startbate:String, intervalLength:int,numberOfIntervals:int) -addStock(stockSymbol:String).startbate:String, int +getInvestmentList(): String] -getInvestmentList(): String] -getWorth(): double -getWorth(): double -getWorth(): double -getWorth(): double -getWorth(): double -getWorth(): double -getWastmentList(): String) -getWastmentOnList(name:String): boolean +setUnrestment(index:int, adantity:int): int +setUnrestmentList(): double -setInitialMoney(moneyValue:double): void +setUserName(name:String): void +setUserName(name:String): void +setUserName(name:String): void +setUserName(name:String): void +setUserName(name:String): void +percentMoney(nange(amount:double): void

<extends Exception>>
SoundException
-exception: Throwable
+petException(): Throwable
+printStacKTrace(): void
+printStacKTrace(ps:PrintStream): vqid

<<implements Runnable>>

SoundLayer

-setSountTrack(audioFile:String): void +setAudioFileName(setAudioFileName:audioFile):

-playSound(): void +run(): void +playLoop(): void +playOnce(): void

-soundtrack: AdvancedPlayer-exceptions: ArrayList<String>

soundThread: Thread

audioFileName: String repeat: boolean = false

MarketSimUtils
-startDate: String
+<<static>> getValidInput(message:String)
+<<Static>> getValidInt(message:String): int
+<<static>> getValidInt(message:String): int
+<<static>> getValidInt(message:String,lowerbound:int,
+<<static>> wrapString(stringIn:String): int