**Class Implementation Details**

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# Introduction

For stage two part two assignment for FIT 3077 an implementation diagram was produced to satisfy UML requirements, however the methods and attributes were omitted to allow the diagram to fit onto A4 Pages. The purpose of this document covers the omitted class methods and attributes, it provides full details of individual classes if more details of a class in the implementation diagram is desired.

# GUI Package

### Main

|  |
| --- |
| Main |
| + main(String[] args) |

### AppWindow

|  |
| --- |
| AppWindow |
| - stocksymbol : String  - isNumerical : boolean  - isSQSapi : boolean  - updatetime : String  - mainFrame : JFrame  - mainpanel : JPanel  - toppanel : JPanel  - bottompanel : JPanel  - addMonitor : JButton  - deleteMonitor : JButton  - inputLabel : JLabel  - updateLabel : JLabel  - inputSymbol : JTextField  - inputUpdate : JTextField  - tabpanel : JTabbedPane  - textpanel : JPanel  - apiChoices : DefaultComboBoxModel  - monitorChoices : DefaultComboBoxModel  - apiComboBox : JComboBox  - monitorComboBox : JComboBox |
| + AppDisplay()  + prepareWindow()  + setPanel(JPanel p) |

# StockPackage

### Monitor

|  |
| --- |
| Monitor<<abstract>> |
| # stockQuote : StockQuote  # stockInfo : StockInfo  # jpanel : JPanel |
| + Monitor(StockQuote s)  # generateMonitor(StockInfo s)  # updateMonitor(StockInfo s)  + getPanel()  + update() |

### 

### GraphicMonitor

|  |
| --- |
| GraphicMonitor |
| # g : GeneratedGraph |
| + GraphicMonitor(StockQuote stockinfo)  # generateMonitor(StockInfo s)  # updateMonitor(StockInfo s)  + JPanel getPanel() |

### TextMonitor

|  |
| --- |
| TextMonitor |
| - textArea JTextArea |
| # generateMonitor(StockInfo s)  # updateMonitor(StockInfo s)  - appendSymbol(String symbol)  - appendLastTrade(Double lasttrade)  - appendDate(Date date)  - appendTime(Date time)  - appendChange(Double change)  - appendOpen(Double open)  - appendDayHigh(Double dayhigh)  - appendDayLow(Double daylow)  - appendVolumn(Double volumn)  + JPanel getPanel() |

### 

### 

### 

### InputHandler

|  |
| --- |
| InputHandler |
| - symbol : String  - isNumerical : boolean  - isSQSapi : boolean  - update : String  - stockQuote : StockQuote  - monitor : Monitor |
| + InputHandler(String symbol, boolean isNumerical, boolean isSQSapi)  + ChooseAPI()  + ChooseMonitor() |

### Observable

|  |
| --- |
| Observable<<abstract>> |
| - observers : HashMap<Observer,Observer> |
| + notifyObservers()  + addObserver(Observer o)  + removeObserver(Observer o) |

### Observer

|  |
| --- |
| Observer<<interface>> |
|  |
| + update() |

### StockInfo

|  |
| --- |
| StockInfo |
| - symbol: String  - lastTrade : Double  - date : Date  - time : Date  - change : Double  - open : Double  - dayhigh : Double  - volumn : Doubl |
|  |

### StockQuote

|  |
| --- |
| StockQuote |
| - stockInfo : StockInfo |
| + StockQuote(String asymbol, Double alastTrade, Date adate, Date atime, Double achange, Double aopen, Double adayHigh, Double adayLow, Double avolumn)  + update()  + getInfo() |

### StockQuoteServiceInterface

|  |
| --- |
| StockQuoteServiceInterface<<interface>> |
|  |
| + setStockQuote(StockQuote s) |

### StockQuoteService

|  |
| --- |
| StockQuoteService |
| - symbol : String  - newstock : StockQuote |
| + StockQuoteService()  + getQuote(String symbol)  + setStockQuote(StockQuote s)  + run() |

### StockQuoteTLService

|  |
| --- |
| StockQuoteTLService |
| - symbol : String  - newstock : StockQuote |
| + TimeLapseService()  + getQuote(String symbol)  + setStockQuote(StockQuote s)  + run() |

### GenerateGraph

|  |
| --- |
| GenerateGraph |
| - dataset : DefaultCategoryDataset  - chartPanel : ChartPanel |
| + GenerateGraph(String chartTitle)  - createDataset()  + addData(String time, double price)  + getChartPanel() |