|  |
| --- |
| Order\_buy |
| - orderId : int  - type : String  - price: BigDecimal  - number: int  - buyer : String  - fulfilled : Boolean  - stock : Stock |
| + getters/setters  + equals/hashcode |

|  |
| --- |
| Order\_sell |
| - orderId : int  - type : String  - price: BigDecimal  - number : int  - seller : String  - fulfilled : Boolean  - stock : Stock |
| + getters/setters  +equals/hashcode |

|  |
| --- |
| Stock |
| - stockId : int  - ticker : string  - price : BigDecimal  - tickSize: BigDecimal |
| +getters/setters  +equals/hashcode |

|  |
| --- |
| Trade |
| - tradeId : int  - time: localDateTime  - price: BigDecimal  - number: int  - buyOrder: Order\_buy  -sellOrder: Order\_sell |
| +equals/hashcode  +getters/setters |

|  |
| --- |
| BuyOrderRepo |
| Extends JpaRepository<Buy\_order, Integer> |
| N/A |

|  |
| --- |
| SellOrderRepo |
| Extends JpaRepository<Sell\_order, Integer> |
| N/A |

|  |
| --- |
| StockRepo |
| Extends JpaRepository<Stock, Integer> |
| N/A |

|  |
| --- |
| TradeRepo |
| Extends JpaRepository<Trade, Integer> |
| N/A |

|  |
| --- |
| BuyOrderServiceLayer |
| - buyRepo: BuyOrderRepo  - sellRepo : SellOrderRepo  - tradeRepo: TradeRepo  - stockRepo: StockRepo |
| + getById(int): Buy\_order  + getAll() : List<Buy\_order>  + getByStock : List<Buy\_order>  + addOrder(Buy\_order) : void  + editOrder(Buy\_order) : void  + deleteOrder(Buy\_order) : void  + getUnfulfilled(): List<Buy\_order> |

|  |
| --- |
| SellOrderServiceLayer |
| - buyRepo: BuyOrderRepo  - sellRepo : SellOrderRepo  - tradeRepo: TradeRepo  - stockRepo: StockRepo |
| + getById(int): Sell\_order  + getAll() : List<Sell\_order>  + getByStock : List<Sell\_order>  + addOrder(Sell\_order) : void  + editOrder(Sell\_order) : void  + deleteOrder(Sell\_order) : void  + getUnfulfilled(): List<Sell\_order> |

|  |
| --- |
| TradeServiceLayer |
| - buyRepo: BuyOrderRepo  - sellRepo : SellOrderRepo  - tradeRepo: TradeRepo  - stockRepo: StockRepo |
| + getById(int): Trade  + getAll() : List<Trade>  + getByStock : List<Trade>  + addTrade(Trade) : void  + editTrade(Trade) : void  + deleteTrade(Trade) : void |

|  |
| --- |
| StockServiceLayer |
| - buyRepo: BuyOrderRepo  - sellRepo : SellOrderRepo  - tradeRepo: TradeRepo  - stockRepo: StockRepo |
| + getById(int): Stock  + getAll() : List<Stock>  + addStock(Stock) : void  + editStock(Stock) : void  + deleteStock(Stock) : void |