1/*								
2	2 Author's Name: 3 4 Purpose of Program: 5 6		Kenneth Larot Yamat To create a program that automatically creates trading tickets for a security, for example, buy and sell orders for shares of an exchange traded fund.					
4 5 6								
7 8 9*/	Date Due:		11:59 PM on March 4th, 2024					
12 13	Proposal:	trading tic	program that automatically creates kets for a security, for example, buy ders for shares of an exchange traded fund.					
14 15 16 17 18 19		buy or sell a new ticke	d only manually enter the first order, either to a security, the program would populate and submit t based on the fulfillment of the previous ticket, f tickets would continue until the user decided to chain.					
	ground and the n	eeds:						
22 23 24 25 26 27		that are di	m is needed because there are many securities fficult to trade because they are illiquid as large bid and ask spreads, or because they lack					
28		The goal is	to reduce spreads while increasing volume.					
29 30 31 32			d is due to the fact that manually performing this task s and prone to error.					
33 34 B) Func 35	tion list:							
36 37 38		getSecurity setSecurity						
39 40 41		setPurchase getPurchase						
42 43 44		setLiquidat getLiquidat						
45 46 47		setAvarageT getAverageT						
48 49 50		setBollinge getBollinge						
51 52 53			irectionalIndex irectionalIndex					
54C) User	54C) User interface (UI) design:							
55 56 Ste 57	p 1							

58 59 60		Trade Ticket										
61 62 63 64 65 66 67 68		Security: Buy or Sell: Limit: Quantity: ATR: BBW: ADX:	[User Input Elemon	ent] ent] ent] ent] ent]								
70 71 72	Step 2											
73 74 75		Your initial [Buy/Sell] Trade ticket for [Security] has been submitted at the following price [Limit Price] and quantity [Quantity].										
76 77 78 79 80		Subsequent orders will be automatically generated and submitted contingent upon the fulfillment of the previous order, with buy limits and sell limits based on the Average True Range, Bollinger Band Width, and Average Directional Index entered on the initializing ticket.										
81 82 83		Sell orders will be generated with a limit of [Calculated Amount] above the previously filled ticket Buy orders will be generated with a limit of [Calculated Amount] below the previously filled ticket										
84		[User Input Element [Accept and Submit] [Override and Submit] [Start Over]]										
85 86 87	Step 3											
88 89		[Ticker Symbol]	[Buy/Sell]	[Order	Quantity]	[Limit Price]	[Ticket Status]					
90 91		[HFH.P	Buy		1	86.86	0pen]				
92 93 94	Step 4	[Ticker Symbol]	[Buy/Sell]	[Order	Quantity]	[Limit Price]	[Ticket Status]					
95		[HFH.P	Buy		1	86.86	Filled]				
96 97 98	Step 5											
99 100		[Ticker Symbol]	[Buy/Sell]	[Order	Quantity]	[Limit Price]	[Ticket Status]					
101 102		[HFH.P	Sell		1	86.89	0pen]				
103	Step 6											
104 105 106		[Ticker Symbol]	[Buy/Sell]	[Order	Quantity]	[Limit Price]	[Ticket Status]					
107 108		[HFH.P	Sell		1	86.89	Filled]				
109 110	Step 7											
111 112		[Ticker Symbol]	[Buy/Sell]	[Order	Quantity]	[Limit Price]	[Ticket Status]					
112 113 114		[HFH.P	Buy		1	86.87	0pen]				

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115
       Step 8
116
117
                                                           [Order Quantity]
                                                                                      [Limit Price]
                                                                                                                 [Ticket Status]
                   [Ticker Symbol]
                                       [Buy/Sell]
118
119
                   [ HFH.P
                                                                      1
                                                                                                  86.87
                                                                                                                          Filled
                                              Buy
120
                   this sequence is based on + 00.03 to Sell orders and - 00.02 to Buy orders for first issue preferred shares for the security HFH
121
       Notes:
122
123 D) Class diagram
124
125
126
127 E) File and database design:
128
129 F) Expectations of project fulfillment:
130
131
       a. [Ticket]
                                   instantiates based on user input.
132
133
                                   instantiates based on fulfillment of previous ticket.
           [AutoTicket]
134
135
       b.
136
137
       с.
138
                                   Arraylist will be used to log the sequence of trades
139
       d. [Arraylist]
140
141
       e. [Exception handling]
                                  a user may enter alphabetical values in a field that requires an int or
142
                                   double, and vice versa, an invalid data message will prompt the user.
143
144
       f. [Database]
145
146
147
           [Documentation]
                                   very detailed and elaborate notes will be included in every program,
                                   class, method, and attribute regarding the purpose, design, development,
148
149
                                   and miscellaneous other notes as well. JavaDoc will see extensive use.
150
151G) Project Report
152
153
       a.
154
       b.
155
       с.
156
       d.
157
       e.
158
       f.
159
       g.
160
       h.
161
162
163
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