TheProposalAndTheSolution.txt

1	/*									
2	,	Author's Name:		Kenneth Larot Yamat						
3										
4		Purpose of Prog	ram:	To create a program that automatically creates						
5				trading tickets for a security, for example, buy						
6 7				and sell orders for shares of an exchange traded fund.						
8		Date Due:		11:59 PM on March 4th, 2024						
9	*/			,						
10										
11	Project	t Proposal:		To create a program that automatically creates						
12 13				kets for a security, for example, buy ders for shares of an exchange traded fund.						
14			and Sell on	der's for shares of an exchange traded fund.						
15			A user woul	d only manually enter the first order, either to						
16				a security, the program would populate and submit						
17				t based on the fulfillment of the previous ticket,						
18				f tickets would continue until the user decided to						
19 20			cancel the	cnain.						
21	A) Back	A) Background and the needs:								
22	,	ny baongi bana ana the netab.								
23				m is needed because there are many securities						
24				fficult to trade because they are illiquid as						
25 26				large bid and ask spreads, or because they lack						
26 27		volume.								
28			The goal is	to reduce spreads while increasing volume.						
29			- 8	6						
30				is due to the fact that manually performing this task						
31			is laboriou	s and prone to error.						
32 33										
34	B) Fund	ction list:								
35	-,									
36			getSecurity							
37			setSecurity	Price						
38 39			setPurchase	Duice						
40			getPurchase							
41			000. 41 011430	··						
42			setLiquidat							
43			getLiquidat	ionPrice						
44			+A	inua Danga						
45 46			setAvarageT getAverageT	-						
47			ge tavel age i	ruchunge						
48	setBollinger			rBandWidth						
49	getBollinger									
50 51				inasticus] Tudov						
51 52				irectionalIndex irectionalIndex						
53			8e caver agen	II CCCIONALINGEX						
54	C) User	User interface (UI) design:								
55	·		-							
56	Ste	ep 1								
57										

58 59		Trade Ticket										
60		========										
61			F	. 7								
62		Security:	[User Input Elem									
63		Buy or Sell:	[User Input Elem	-								
64		Limit:	[User Input Elem									
65		Quantity:	[User Input Elen									
66		ATR:	[User Input Elem									
67		BBW:	[User Input Elem									
68		ADX:	[User Input Elem	ment]								
69												
70	Step 2											
71												
72												
73		Your initial [Buy/Sell] Trade ticket for [Security] has been										
74		submitted at the following price [Limit Price] and quantity [Quantity].										
75												
76		Subsequent orders will be automatically generated and submitted contingent										
77		upon the fulfillment of the previous order, with buy limits and sell limits										
78			based on the Average True Range, Bollinger Band Width, and Average Directional									
79		Index entered on	the initializing ti	icket.								
80												
81		Sell orders will be generated with a limit of [Calculated Amount] above the previously filled ticket										
82		Buy orders will	be generated with a	a limit of [Calculated Am	ount] below the previously f	illed ticket						
83												
84		[User Input El	ement [Accept and	d Submit] [Override and S	ubmit] [Start Over]]							
85												
86	Step 3											
87												
88		[Ticker Symbol]	[Buy/Sell]	[Order Quantity]	[Limit Price]	[Ticket Status]						
89												
90		[HFH.P	Buy	1	86.86	0pen]					
91												
92	Step 4											
93		[Ticker Symbol]	[Buy/Sell]	[Order Quantity]	[Limit Price]	[Ticket Status]						
94												
95		[HFH.P	Buy	1	86.86	Filled]					
96												
97	Step 5											
98												
99		[Ticker Symbol]	[Buy/Sell]	[Order Quantity]	[Limit Price]	[Ticket Status]						
100												
101		[HFH.P	Sell	1	86.89	0pen]					
102												
103	Step 6											
104												
105		[Ticker Symbol]	[Buy/Sell]	[Order Quantity]	[Limit Price]	[Ticket Status]						
106												
107		[HFH.P	Sell	1	86.89	Filled]					
108												
109	Step 7											
110												
111		[Ticker Symbol]	[Buy/Sell]	[Order Quantity]	[Limit Price]	[Ticket Status]						
112		_										
113		[HFH.P	Buy	1	86.87	Open]					
114												

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172 [Relational Database] 173 174 each row in the data file represents on ticket, all the data on that ticket is related to that particular ticket, each 175 ticket is related to the previous ticket 176 177 [Plain Text Files] 178 179 all data will initially be created as ArrayLists and converted into plain text files. 180 181 182 183 F) Expectations of project fulfillment: 184 185 a. [Ticket] instantiates based on user input. 186 187 [AutoTicket] instantiates based on fulfillment of previous ticket. 188 189 b. [Controller Classes] 190 191 c. [GUI applications] 192 193 d. [Arraylist] Arraylist will be used to log the sequence of trades 194 195 e. [Exception handling] a user may enter alphabetical values in a field that requires an int or 196 double, and vice versa, an invalid data message will prompt the user. 197 198 f. [Database] 199 200 g. 201 [Documentation] very detailed and elaborate notes will be included in every program, 202 class, method, and attribute regarding the purpose, design, development, and miscellaneous other notes as well. JavaDoc will see extensive use. 203 204 205 G) Project Report 206 207 208 b. 209 с. 210 d. 211 e. 212 f. 213 g. 214 h. 215 216 217