TheProposalAndTheSolution.txt

1	/*			
2	,	Author's Name:		Kenneth Larot Yamat
3 4 5 6		Purpose of Prog	gram:	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.
7 8	¥ /	Date Due:		11:59 PM on March 4th, 2024
9	*/			
10 11 12 13	Project	t 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 to based on the fulfillment of the previous ticket, of tickets would continue until the user decided to chain.
20 21	A) Back	kground and the r	needs:	
22	71, 540.	and the t		
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 29			The goal is	to reduce spreads while increasing volume.
30 31 32				d is due to the fact that manually performing this task is and prone to error.
33 34 35	B) Fund	ction 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
54 55	C) User	r interface (UI)	design:	
56 57	Ste	ep 1		

58								
59		Trade Ticket						
60		========						
61								
62		Security:	[User Input Elem					
63		Buy or Sell:	[User Input Elem					
64		Limit:	[User Input Elem	_				
65		Quantity:	[User Input Elem	_				
66		ATR:	[User Input Elem					
67		BBW:	[User Input Elem					
68		ADX:	[User Input Elem	ientj				
69 70	C+on 3							
76 71	Step 2							
72								
73		Your initial [Buy	/Selll Trade ticket	for [Security] has been				
74		Your initial [Buy/Sell] Trade ticket for [Security] has been submitted at the following price [Limit Price] and quantity [Quantity].						
75			01 1	, , , , , , , , , , , , , , , , , , ,	, , ,			
76		Subsequent orders	will be automatica	ally generated and submitte	ed contingent			
77		upon the fulfillme	ent of the previous	order, with buy limits an	nd sell limits			
78				linger Band Width, and Ave	erage Directional			
79		Index entered on	the initializing ti	.cket.				
80								
81			pe generated with a		mount] above the previously f			
82		Buy orders will b	pe generated with a	a limit of [Calculated Ar	mount] below the previously f	illed ticket		
83		[Usan Innut Fl	omant [Assant and	Cubmit] [Overnide and (Submit 1 [Stant Over 1			
84 85		[User Input Ele	ement [Accept and	Submit] [Override and S	Submit] [Start Over]]			
86	Step 3							
87	эсср э							
88		[Ticker Symbol]	[Buy/Sell]	[Order Quantity]	[Limit Price]	[Ticket Status]		
89		[[/,]	[over feature of]	[======================================	[
90		[HFH.P	Buy	1	86.86	Open]	
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	C+an F							
97 98	Step 5							
99		[Ticker Symbol]	[Buy/Sell]	[Order Quantity]	[Limit Price]	[Ticket Status]		
100		[TICKET Symbol]	[bdy/sell]	[Order Quartity]	[LIMIC FIICE]	[Ticket Status]		
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		F					_	
107		[HFH.P	Sel1	1	86.89	Filled]	
108 109	Ston 7							
110	Step 7							
111		[Ticker Symbol]	[Buy/Sell]	[Order Quantity]	[Limit Price]	[Ticket Status]		
112		[. Teker Symbol]	[50],5011]	[o. ac. gaanerey]	[22,112, 1, 200]	[.zenec seacas]		
113		[HFH.P	Buy	1	86.87	Open]	
114		-	-			·	-	

115	Step 8							
116	'							
117		[Ticker Symbol]	[Buy/Sell]	[Order Quantity]	[Limit Price]	[Ticket Status]		
118		[[,,]	[[======================================	[]		
119		[HFH.P	Buy	1	86.87	Filled		
120		['	Day	-	00.07	TITIEG		
121	Notes:	this sequence is	hased on + 00 03 to	Sell orders and - 00.02 to				
122	Notes.	•		shares for the security H				
		Buy Order's TOP 12	irst issue preferreu	shares for the security hi	-11			
123	D) Class diagr							
124	D) Class diagr	·aiii						
125		Γ.Δ	T	[Tiologia	[A+ - T - +]			
126		[Aver	rageTrueRange]	[Ticket]	[AutoTicket]	al al		
127					extends from Ti	скет		
128								
129								
130								
131	E) File and da	E) File and database design:						
132								
133	[Data Dictiona	ary for Database Tab	oles and Non-Databas	e Files]				
134								
135	[File and	Database Design]						
136								
137	data w	vill be instantiated	l as an Arraylist an	d printed initially and sto	ored as .txt files, a program	will be created		
138	to cor	overt these .txt fi	les into $.xml$ and $.c$	sv files where and when app	propriate.			
139								
140	[Data Dict	ionary]						
141								
142	the da	the data dictionary will define the columns ticker symbol, buy/sell, order quantity, limit price, and ticket status.						
143	the da	the data dictionary will also contain the methods and classes that modify or control this data.						
144		the data dictionary will diso contain the methods and classes that mourry or control this data.						
145	[Database	[Database Tables]						
146	•							
147	will b	will be organized by column headers such as date, ticker symbol, order quantity, limit price, ticket status						
148		3		, ,	. , , , , , , , , , , , , , , , , , , ,			
149	[Non-Datab	[Non-Database Files]						
150	•	-						
151	will o	contain the initial	trade authorization	. and the user inputs. auth	norization for the subsequent	auto trades		
152		will contain the initial trade authorization, and the user inputs, authorization for the subsequent auto trades based on the other inputs, or, authorization for the automated trades based on user overridden inputs.						
153	54554		., .,,					
154	[Relations	[Relational Database]						
155	[
156	each r	ow in the data file	renresents on tick	et. all the data on that ti	icket is related to that part	icular ticket each		
157		: is related to the	•	er, arr ene adea on chat the	tende 15 i eracea co chae par c	creace, caen		
158	CICKEL	. 13 relaced to the	P. CATORS CTCKEL					
150	[Plain Tex	rt Filosl						
160	[FIGIN 167	ic Files]						
	311 da	u+a will ini+ially k	no chostod as Annaul	ists and convented into pla	in toxt files			
161 162	all (16	ica with filterally (de cheateu as ArrayL	ists and converted into pla	atii (ext illes.			
163								
164	E\		1					
165	r) Expectation	ns of project fulfil	Timent:					
166								
167	a. [Ticke	et j i	Instantiates based o	n user input.				
168	_							
169	[Auto]	icket]	instantiates based o	n fulfillment of previous t	cicket.			
170								
171	b. [Contr	roller Classes]						

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172			
173	с.	[GUI applications]	
174			
175	d.	[Arraylist]	Arraylist will be used to log the sequence of trades
176	_	[F	
177 178	е.	[Exception handling]	a user may enter alphabetical values in a field that requires an int or double, and vice versa, an invalid data message will prompt the user.
178 179			double, and vice versa, an invalid data message will prompt the user.
180	f.	[Database]	
181		[24645456]	
182	g.		
183	_	[Documentation]	very detailed and elaborate notes will be included in every program,
184			class, method, and attribute regarding the purpose, design, development,
185			and miscellaneous other notes as well. JavaDoc will see extensive use.
186	c) 5		
187 188	G) Proj	ject Report	
189	a.		
199	b.		
191	с.		
192	d.		
193	e.		
194	f.		
195	g.		
196	h.		
197			
198 199			
199			