Project Part 3

Who:

Kevin Flynn Jason Hill Andrew Callahan Soham Shah

Title:

Stock Insights

Vision:

A service to inform millennials about an investing strategy by interpreting and visualizing market data.

Part 1: Automated Testing

We wrote python scripts to automate the testing for the momentum algorithm we are applying. Here's the link to the code: https://github.com/jjh68069/3308 Project/blob/master/momentum_test.p

Here's what output running the program gives us:

```
? 3308_Project - bash - 80×46
class MomentumTestCase(unittest.TestCase):
                                                                                                                engr2-11-164-dhcp:3308_Project jahi3695$ python3 momentum_test.py
                                                                                                               .The moving average is: 103.2825 Last Close was: 98.47
The price is below the 20 day moving average, we do not recommend this company
     @classmethod
     def setUpClass(cls):
                                                                                                               Ran 3 tests in 0.001s
     @classmethod
def tearDownClass(cls):
                                                                                                               engr2-11-164-dhcp:3308_Project jahi3695$ [
     def setUp(self):
     def tearDown(self):
     def test_init(self):
    filename = "nflx.csv"
    p = momentum.StockAnalysis(filename)
    self.assertEqual(p.filename, filename, "'text' does not match input")
          testFindMA(self):
           filename = "nflx.csv"
p = momentum.StockAnalysis(filename)
           p = momentum.StockAnalysis(filename)
self.assertIsInstance(p.findMA(),tuple, "Error in return type")
     def testPrintResults(self):
           p = momentum.StockAnalysis(filename)
self.assertIsNone(p.printResults(), "Error in return type")
# Main: Run Test Cases
if __name__ == '__main__':
     unittest.main()
```

Link to unittest documentation: https://docs.python.org/2/library/unittest.html Part 2: User Acceptance Tests

Projec	ct name: Stock	Insights					
			ase Templ	ate			
Test c	ase ID: US-01				Soham Shal	 າ	
Test p	riority (low, me	d, hiah): Med	Test designed date: 11/11/15				
	le name: Acce		Test executed by:				
company stocks			,				
Test ti	tle: Stock listing	JS	Test execution date:				
Preco	nditions: User o	can access we	ebsite and	knows to	op stocks		
Depe datak	ndencies: The base.	website has to	be runnin	g and c	onnected to	o the	
Step	Test Steps	Test data	Expected Results	Actual Results	Status (pass/fail)	Notes	
1	Access website	Webpage displays	User can see the webpage				
2	Select function tab	Click the tab					
3	Type in a stock ticker	Enter "aapl"	Look at apple stock				
4	Select go	Click the go button	Server gets user entry				
5	Look at the data	NA	Data on stock is displayed				

Post Conditions:

Test is validated by visually looking at the data presented and cross-referencing it with the apple csv on another computer to make sure the data is displayed accurately. Also, User evaluates ease of use.

Project Name: Stock Insights								
Test Case Template								
Test Case ID: US-02			Test designed by: Andrew Callahan					
Test Priority (low, med, high):			Test designed date: 11/11/15					
Module Name: Check invalid		Test executed by:						
Test Title: Invalid company search Test execution date:								
Preconditions: user can access website and search for company								
Dependencies: Website online and connected to database								
Step	Test Steps	Test data	Expected Results	Actual	Status(pass/fail) Notes			
1	Access the	Webpage	User can see the					
2	Select	Click on	Website redirects					
3	Type in a	Type in	Server does not					
	false	"test" into	find company,					
	company	field	displays invalid					
	name		message					

Post Conditions: Test is validated when the user see an invalid entry response from the website after it is not able to find that company stock in the database.

Project Name: Stock Insights								
	Test Case							
Test Case ID: US-03			Test designed by: Kevin Flynn					
Test Priority (low, med, high):			Test designed date: 11/11/15					
High								
Modu	ıle Name: Web	page loads and	Test executed by:	Test executed by:				
			Test execution date:					
Preco	Preconditions: User knows how to access the webpage							
Depe	Dependencies: Website online and connected Django Server							
Step	Test Steps	Test data	Expected Results	Actual Results	Status(pass/fail)	Notes		
1	Access the website	Enter in webpage	Webpage loads					
2	Overview what is displayed	NA	Everything loads properly and is formatted correctly	,				
3	Access function tab	Click to access	Function tab loads properly and is					
	Conditions: Valutting problems		e user is properly at e working.	ole access the	e site without, th	ere are no		

VCS:

https://github.com/jjh68069/3308_Project