

API Testing Framework

- Purpose

complex test cases and ad-hoc/explorer testing.

automatically, save time for manual testers to do more

- Used Tools



Our test is written in BDD style, using Jbehave.

I. Write story

Plain
text

Scenario: A trader is alerted of status

Given a stock and a threshold of 15.0

When stock is traded at 5.0

Then the alert status should be OFF

When stock is traded at 16.0

Then the alert status should be ON

2. Map steps to Java

POJO

```
public class TraderSteps {  
    private TradingService service; // Injected  
    private Stock stock; // Created  
  
    @Given("a stock and a threshold of $threshold")  
    public void aStock(double threshold) {  
        stock = service.newStock("STK", threshold);  
    }  
    @When("the stock is traded at price $price")  
    public void theStockIsTraded(double price) {  
        stock.tradeAt(price);  
    }  
    @Then("the alert status is $status")  
    public void theAlertStatusIs(String status) {  
        assertThat(stock.getStatus().name(), equalTo(status));  
    }  
}
```

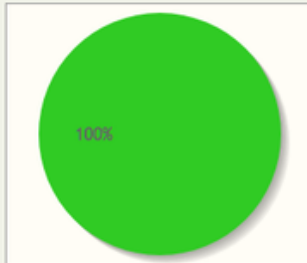
Using Serenity framework to generate the report.

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☒ Overall Test Results

☐ Requirements

Report generated 11-04-2018 13:24



■ Passing ■ Pending
■ Ignored ■ Failing
■ Errors

Requirements Overview

Requirement Type	Total	Pass	Fail	Pending	Ignored	Untested
Acceptance Criteria (tests)	42	42	0	0	0	

Test Result Summary

Test Type	Total	Pass	Fail	Pending	Ignored
Automated	42	42 (100%)	0 (0%)	0 (0%)	0 (0%)
Manual	0	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Total	42	42 (100%)	0 (0%)	0 (0%)	0 (0%)

Acceptance Tests (42)

Show 25 entries

Search:

Acceptance Tests	Steps	Stable	Duration (seconds)
✓	2	⬇	0.36
✓	2	⬇	0.35
✓	2	⬇	0.32
✓	2	⬇	0.32
✓	2	⬇	0.31
✓	2	⬇	0.94
✓	2	⬇	1.84
✓	2	⬇	0.35
✓	2	⬇	0.36
✓	2	⬇	0.96
✓	2	⬇	0.96
✓	2	⬇	0.43
✓	2	⬇	0.31
✓	2	⬇	0.32
✓	2	⬇	0.33
✓	2	⬇	0.33
✓	2	⬇	5.15

Using Retrofit as an Adapter to perform service calls and get its response to verify the returned data.



- How it works

