基于cucumber的BDD实现

目录

Cucumber 简介

一个能够理解用自然语言 描述的测试用例的支持行为驱动开发（BDD）的自动化测试工具【解释程序】

A single source of truth

Cucumber merges specification and test documentation into one cohesive whole.

Living documentation

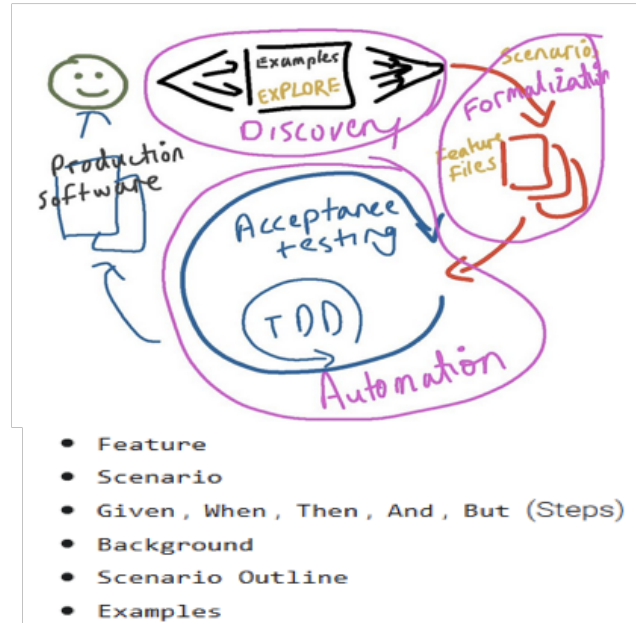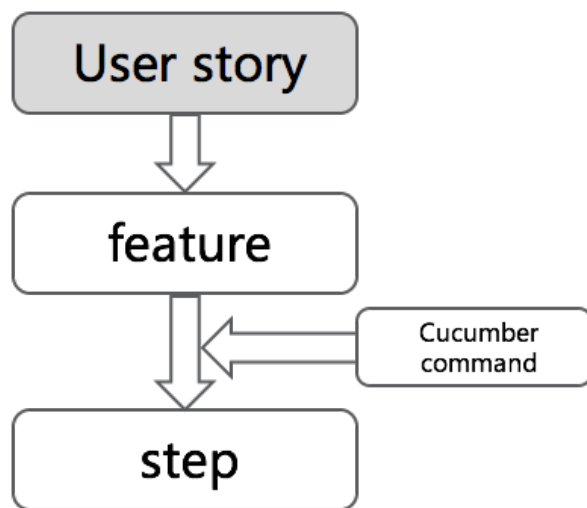Because they're automatically tested by Cucumber, your specifications are always bang up-to-date.

Focus on the customer

Business and IT don't always understand each other. Cucumber's *executable specifications* encourage closer collaboration, helping teams keep the business goal in mind at all times.

Less rework

When automated testing is this much fun, teams can easily protect themselves from costly regressions

Cucumber组成

- Feature
- Scenario
- Given , When , Then , And , But (Steps)
- Background
- Scenario Outline
- Examples

Cucumber实例

```
# language:  zh-CN
功能：登录功能

   场景：登录1
      假如 登录成功后
         |userid|username|
         |1号     |大伟     |
         |2       | sang    |

      当 提交测试"测试提交"
      那么 核对结果"核对结果"
```
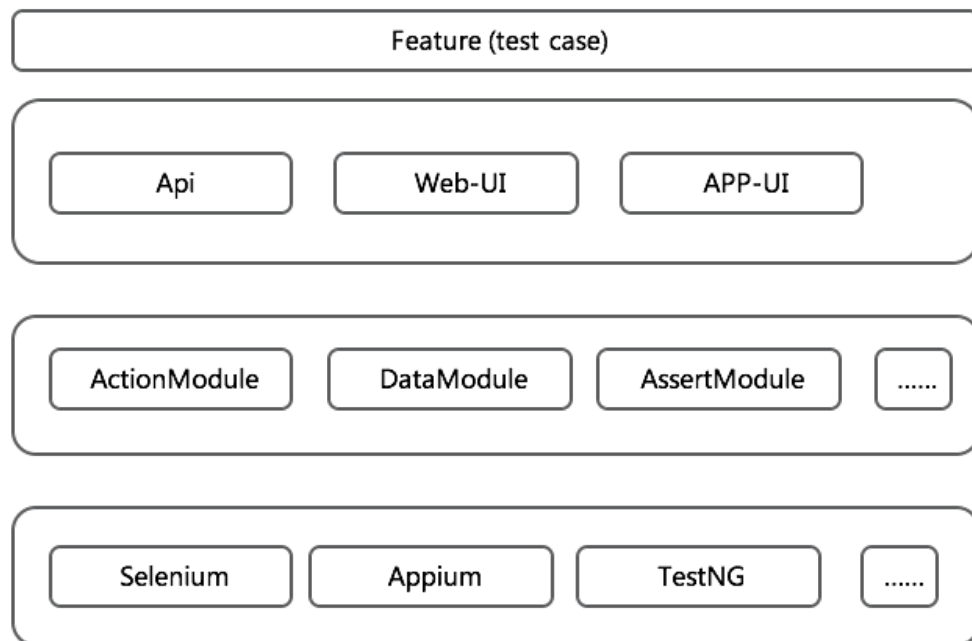
```java
private HashMap<String, String> data = new HashMap<>();
@Given("^登录成功后$")
public void login_b(DataTable dataTable) throws Throwable {
    List<Map<String, String>> dataMaps = dataTable.asMaps(String.class, String.class);
    for (Map<String, String> dataMap : dataMaps) {
        this.data.put(dataMap.get("userid"), dataMap.get("username"));}
    System.out.println(this.data);
}


@When("^提交测试\"(.*?)\"$")
public void submit_test(String arg1) throws Throwable {
    System.out.println(arg1);
}


@Then("^核对结果\"(.*?)\"$")
public void check_the_all(String arg1) throws Throwable {
    System.out.println(arg1);
}
```
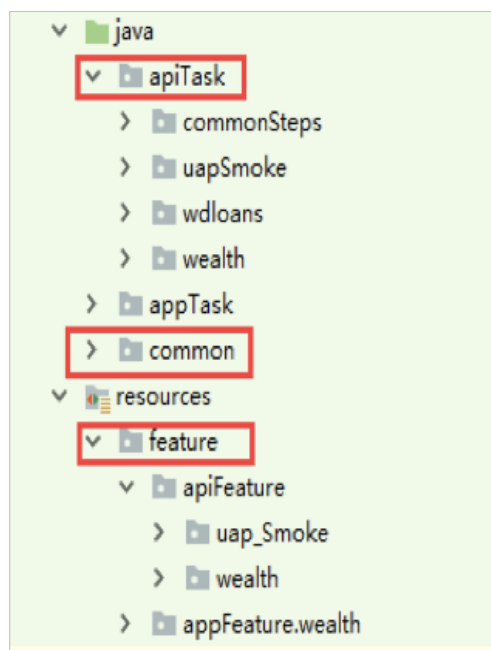
自动化框架-结构

Feature (test case)

Api	Web-UI	APP-UI

ActionModule	DataModule	AssertModule	......

Selenium	Appium	TestNG	......

自动化框架-分层简介

```
v  java
  v  apiTask
    >  commonSteps
    >  uapSmoke
    >  wdloans
    >  wealth
  >  appTask
  >  common
v  resources
  v  feature
    v  apiFeature
      >  uap_Smoke
      >  wealth
    >  appFeature.wealth
```
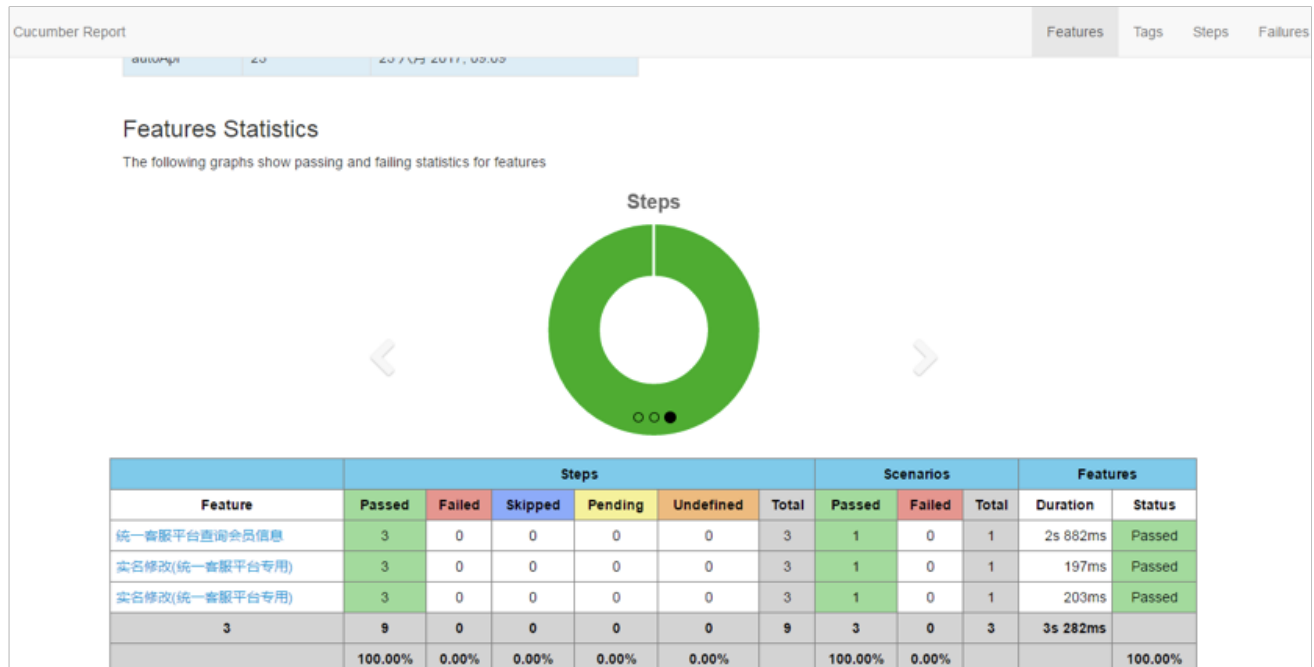
1. feature folder： 自然语言编写的测试用例

2. apiTask folder: 测试用例的实现及定制化的实现

3. common folder: 基础module的抽取及封装【basicAction、dataAction….】

测试报告

autoApi   25   25 7月 2017, 09.09

Features Statistics

The following graphs show passing and failing statistics for features

Steps

Feature	Steps						Scenarios			Features	
	Passed	Failed	Skipped	Pending	Undefined	Total	Passed	Failed	Total	Duration	Status
统一客服平台查询会员信息	3	0	0	0	0	3	1	0	1	2s 882ms	Passed
实名修改(统一客服平台专用)	3	0	0	0	0	3	1	0	1	197ms	Passed
实名修改(统一客服平台专用)	3	0	0	0	0	3	1	0	1	203ms	Passed
3	9	0	0	0	0	9	3	0	3	3s 282ms	
	100.00%	0.00%	0.00%	0.00%	0.00%		100.00%	0.00%			100.00%

调试及执行

方法一、idea runner

方法二、junit runner

方法三、mvn test

```
package common;

/**
 * Created by Administrator on 2017/7/28.
 */

import cucumber.api.CucumberOptions;
import cucumber.api.junit.Cucumber;
import cucumber.api.testng.AbstractTestNGCucumberTests;
import org.junit.runner.RunWith;
@RunWith(Cucumber.class)
@CucumberOptions(
        monochrome = true,
        strict = false,
        features = "src/test/resources/feature/apiFeature/uap_Smoke/modifyRealnameByCustomerPlatform",
        plugin = {"pretty","json:target/cucumber.json"},
        tags = {},
        glue = {"apiTask"}
)
public class testNgRun extends AbstractTestNGCucumberTests {

}
```

References

Cucumber Dos: https://cucumber.io/docs/reference/jvm#java

Idea for cucumber: https://www.jetbrains.com/help/idea/cucumber.html

Github for cucumber plugins: https://github.com/damianszczepanik

Auto framework Github: https://github.wanda-itg.local/WDQA/wd-autoTest