



<ерат>

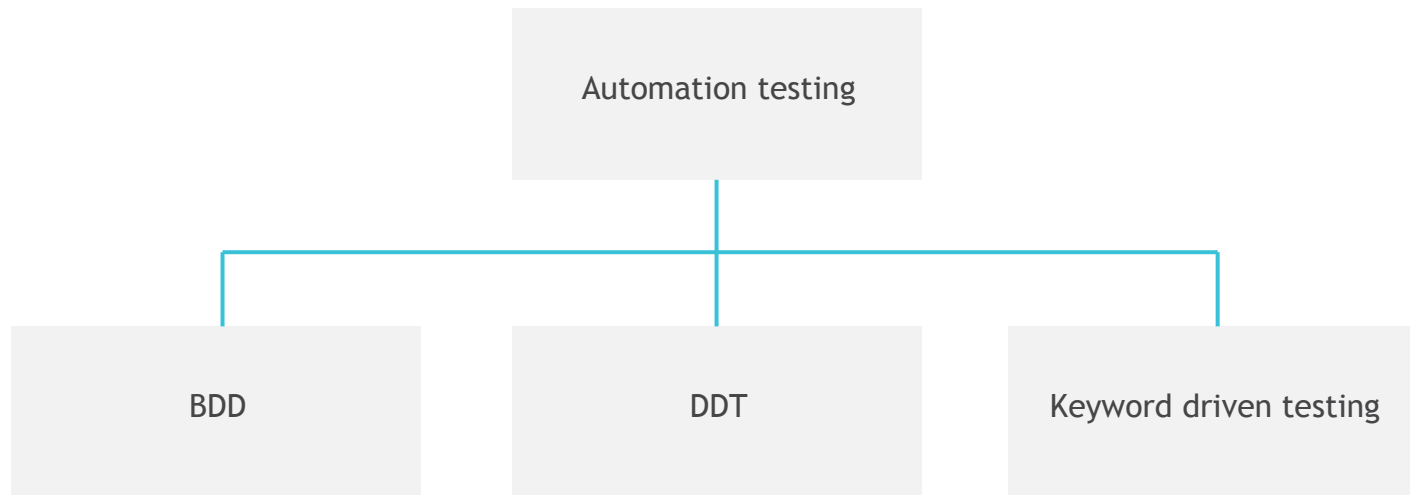
ПРИЕМОЧНОЕ ТЕСТИРОВАНИЕ СРЕДСТВАМИ **JBEHAVE**

Декабрь, 2016

УРОВНИ ТЕСТИРОВАНИЯ



СТРУКТУРА АВТОМАТИЗИРОВАННОГО ТЕСТИРОВАНИЯ



ПОДХОДЫ В АВТОМАТИЗИРОВАННОМ ТЕСТИРОВАНИИ

1

KDT (Keyword Driven Testing)

- тесты, управляемые ключевыми словами

2

DDT (Data Driven Testing)

- позволяет данные хранить отдельно от тестов

3

BDD (Behavior-driven development)

- разработка, основанная на поведении

BDD ПОДХОД

GIVEN

<Исходное состояние>

WHEN

<Событие>

THEN

<Результат>

BDD ФРЕЙМВОРКИ



BDD FRAMEWORKS



Feature: Product basket

In order to buy products
As a customer

I need to be able to put interesting products into a basket

Rules:

- VAT is 20%
- Delivery for basket under £10 is £3
- Delivery for basket over £10 is £2

Scenario: Buying a single product under £10

Given there is a "Sith Lord Lightsaber", which costs £5

When I add the "Sith Lord Lightsaber" to the basket

Then I should have 1 product in the basket

And the overall basket price should be £9

Feature: Google Test

Background: Open Google

Given I open "http://www.google.com/webhp?hl=en"

Scenario: Perform Search

Given I don't see "Search Results Link"

When I type "Test query" into "Search Field"

And I click "Search Button"

Then I see "Search Results Link"

Feature: Calculator

In order to avoid silly mistakes

As a math idiot

I want to be told the sum of two numbers

@mytag

Scenario: Add two numbers

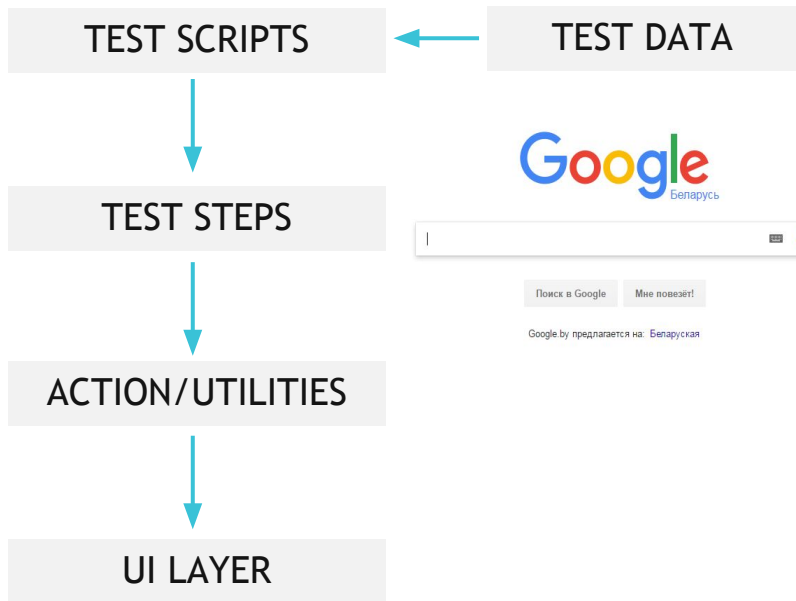
Given I have entered 50 into the calculator

And I have also entered 70 into the calculator

When I press add

Then the result should be 120 on the screen

УРОВНИ ФРЕЙМВОРКА АВТОМАТИЗАЦИИ И **PAGEOBJECT**



```
<input class="gsfi" id="lst-ib" maxlength="2048" name="q" autocomplete="off"
```

```
public class SearchPage {
```

```
System.setProperty("webdriver.chrome.driver", "/path/to/chromedriver");  
WebDriver driver = new ChromeDriver();  
driver.get("http://www.google.by");
```

```
public static By SEARCH = By.xpath("//input[@name='q'] ");
```

```
WebElement searchInput = driver.findElement(SEARCH);  
searchInput.sendKeys("Apple");  
searchInput.submit();
```

```
}
```


trader_is_alerted_of_status.story

```
Scenario: trader is not alerted below threshold  
  
Given a stock of symbol STK1 and a threshold of 10.0  
When the stock is traded at 5.0  
Then the alert status should be OFF  
  
Scenario: trader is alerted above threshold  
  
Given a stock of symbol STK1 and a threshold of 10.0  
When the stock is traded at 11.0  
Then the alert status should be ON
```

TraderSteps.java

```
public class TraderSteps { // look, Ma, I'm a POJO!!  
  
    private Stock stock;  
  
    @Given("a stock of symbol $symbol and a threshold of $threshold")  
    public void aStock(String symbol, double threshold) {  
        stock = new Stock(symbol, threshold);  
    }  
  
    @When("the stock is traded at $price")  
    public void theStockIsTradedAt(double price) {  
        stock.tradeAt(price);  
    }  
  
    @Then("the alert status should be $status")  
    public void theAlertStatusShouldBe(String status) {  
        ensureThat(stock.getStatus().name(), equalTo(status));  
    }  
}
```

Trader.java

```
@DefaultUrl("http://localhost:9000/admin/categories/new")  
public class EditCategoryPage extends PageObject {  
  
    @FindBy(id="object_label")  
    WebElement label;  
  
    @FindBy(id="object_code")  
    WebElement code;  
  
    @FindBy(name="save")  
    WebElement saveButton;  
  
    @FindBy(xpath = "//input[@value='Delete Category']")  
    WebElement deleteButton;  
  
    public EditCategoryPage(WebDriver driver) {  
        super(driver);  
    }  
  
    public void saveNewCategory(String labelValue, String codeValue) {  
        typeInto(label, labelValue);  
        typeInto(code, codeValue);  
        saveButton.click();  
    }  
  
    public void clickOnDelete() {  
        deleteButton.click();  
    }  
}
```

TEST SCRIPTS

TEST SCRIPTS

UI LAYER

JBEHAVE

```
public abstract class TraderStory extends JUnitStory {

    public TraderStory() {
        configuredEmbedder().embedderControls().doGenerateViewAfterStories(true).doIgnoreFailureInStories(true)
            .doIgnoreFailureInView(true).useThreads(2).useStoryTimeoutInSecs(60);
    }

    @Override
    public Configuration configuration() {
        return new MostUsefulConfiguration();
    }

    @Override
    public InjectableStepsFactory stepsFactory() {
        return new InstanceStepsFactory(configuration(), new TraderSteps(new TradingService()));
    }
}
```

BDD ПОДХОД НА ПРОЕКТЕ

A wide-angle photograph of a busy London street, likely Regent Street, during the "blue hour" of dusk. The scene is filled with a large crowd of pedestrians walking in various directions. On the left, a grand, light-colored stone building with classical architectural features like columns and arched windows is visible. A Union Jack flag flies from a balcony. A "Superdry" store is located on the ground floor. In the center, a street sign reads "REGENT STREET W1". To the right, another building features a red awning and a Starbucks logo. The sky is a mix of deep blue and orange from the setting sun, which creates a strong lens flare effect across the upper right portion of the image. The overall atmosphere is one of a vibrant, bustling urban environment.

ФУНКЦИОНАЛ ПРОЕКТА

1

Создание
тренингов

- обеспечивает полное описание курсов, которые доступны в каталоге

2

Расписание

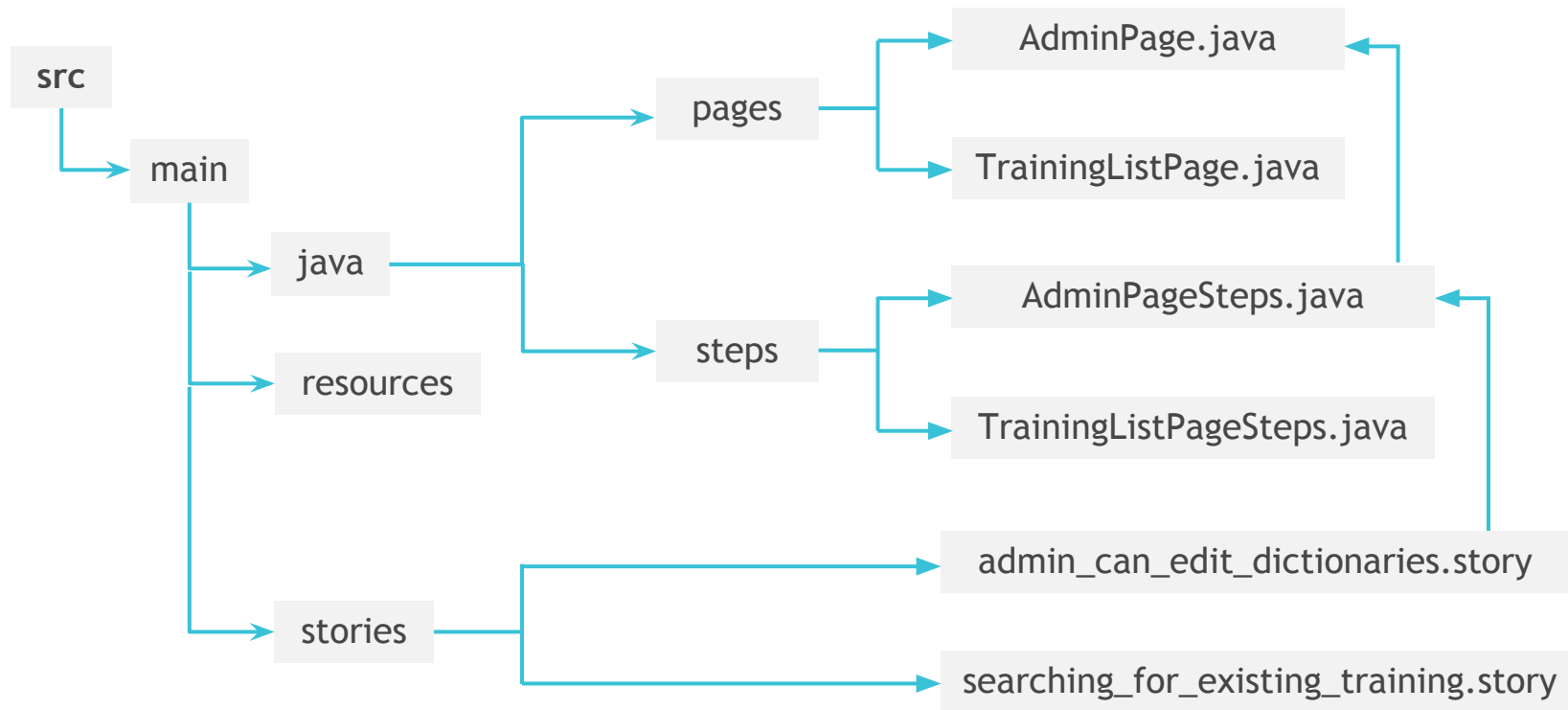
- запланированный тренинг с определенным тренером, расписанием и местоположением

3

Обработка
запросов

- управление регистрацией пользователей на тренинг: перемещение в запланированные события, отметка посещаемости, сбор фидбеков

СТРУКТУРА ТЕСТОВОГО ПРОЕКТА



ТЕСТОВЫЙ СЦЕНАРИЙ

admin_can_edit_dictionaries.story

Meta:

@testType ui

@user //users/admin/xUsername

@xmlFile testdata/smoke/smokeTestData.xml

Scenario: Administrator can edit Categories

Given user logs in with 'Administrator' role

When user clicks 'Admin' tab

And user clicks Add button

And user types random records name

And user types 'TestName' records short name

And user clicks Ok button

And user clicks Save dictionary button

And user clicks edit icon on new added record

And user types 'newTestName' records short name

And user clicks Ok button

And user clicks Save dictionary button

Then new record Short Name is 'newTestName'

ТЕСТОВЫЙ КЛАСС

AdminPageSteps.java

```
public class AdminPageSteps {

    @When("user clicks '$tabName' tab")
    public void goToTab(String tabName) {
        getPage().goToTab(tabName);
    }

    @When("user clicks Add button")
    public void clickAddButton() {
        getPage().clickAddButton();
    }

    @Then("new record exists in list")
    public void checkNewRecordExists() {
        String recordName = RecordsStorage.getLastCreatedRecord().getName();
        Assert.assertTrue(String.format(Messages.NEW_RECORD_NOT_DISPLAYED, recordName), getPage().isRecordExist(recordName));
    }
    .....
}
```


PAGE OBJECT

AdminPage.java

[illegible]

СПАСИБО ЗА ВНИМАНИЕ!

