

BDD Explained Through Real World Examples

Todd Brunia - @BruniaTodd Cecil G. Williams - @cecilgwilliams







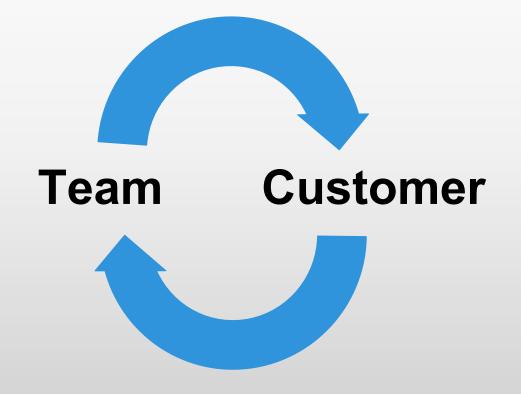


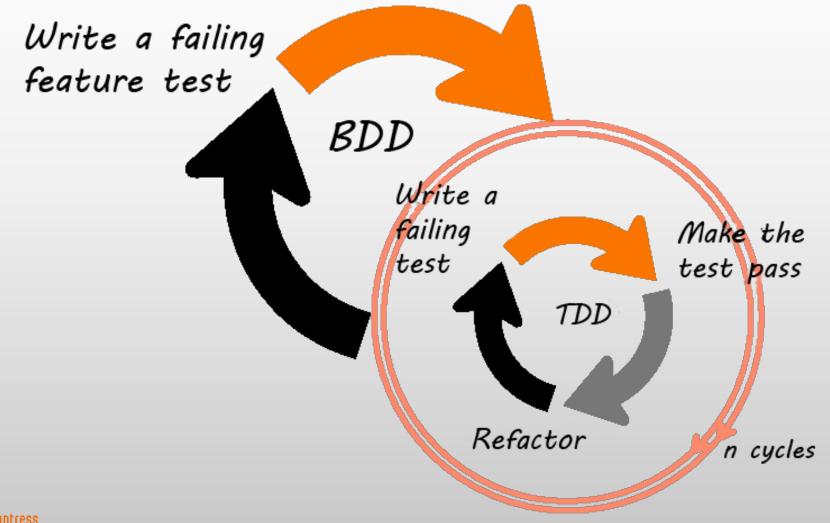
HELLO my name is

Todd



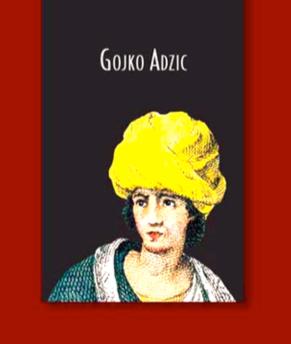








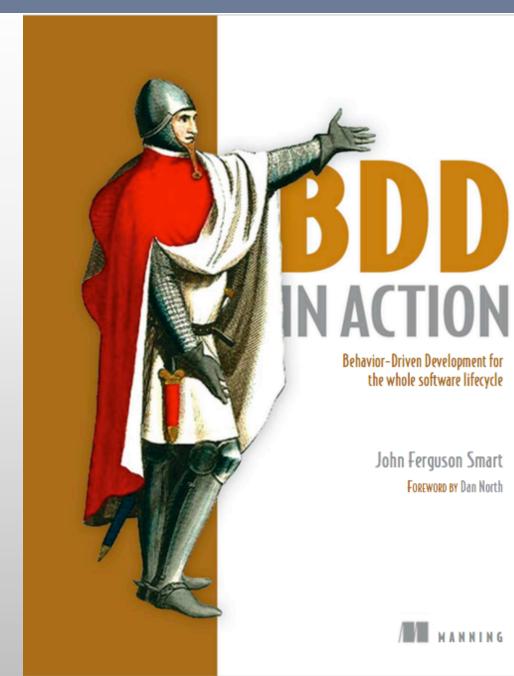
http://blog.bughuntress.com/automated-testing/automated-testing-with-behavior-driven-testing



SPECIFICATION BY EXAMPLE

How successful teams deliver the *right* software













ScalaTest[™] ScalaTest

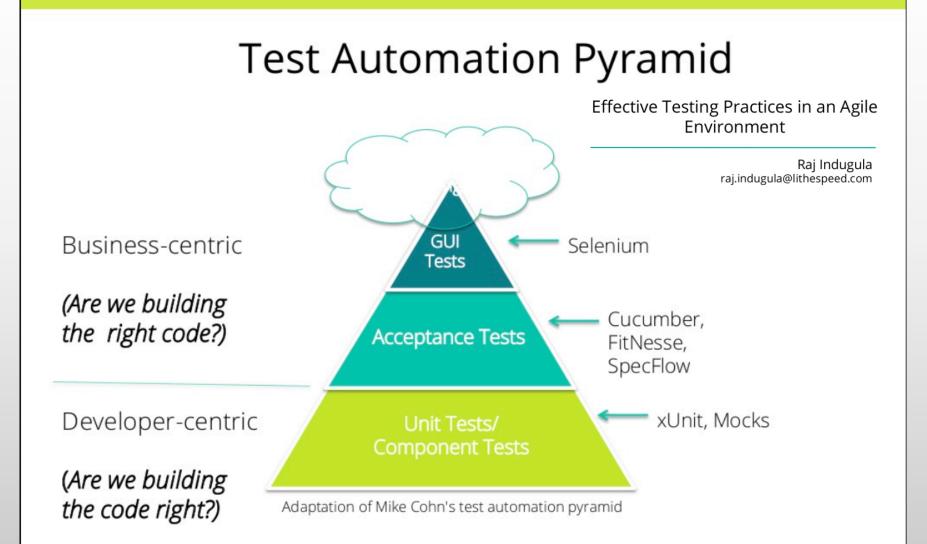
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Domain-Specific Languages

MARTIN FOWLER with Rebecca Parsons



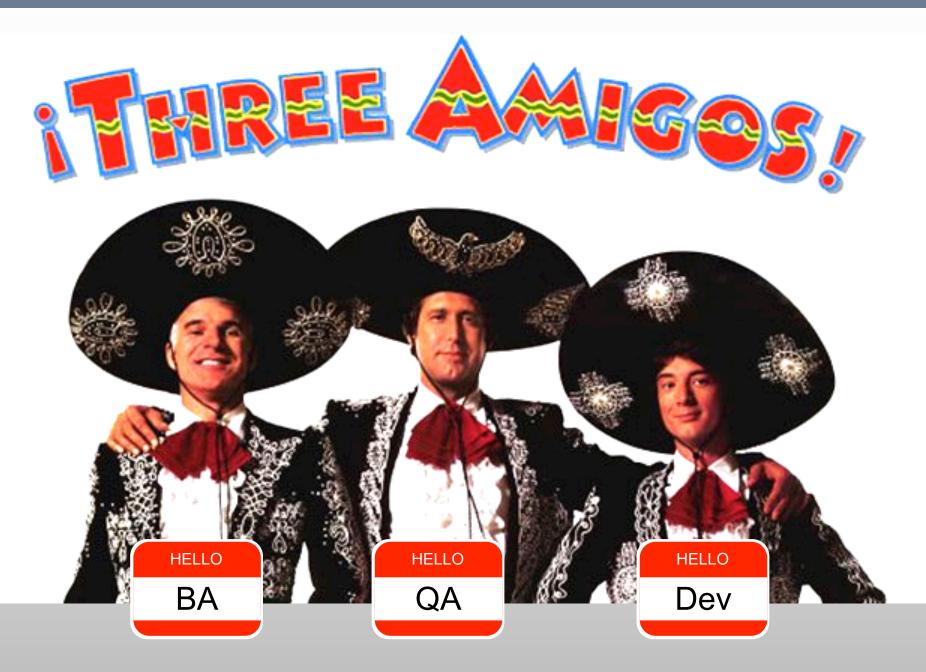






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BPA Persona

source allies

Joe Moreau

Title: Staff Architect

Industry: Architecture/Engineering



Primary Persona: Joe Moreau

Company Type: Curabitur sodales viverra leo

Energy analysis/sustainable design knowledge: Nullam auctor lectus et velit

ultricies condimentum.

Location:

Lorem ipsum dolor sit amet, consectetur adipiscing elit.

Motto: "I want to bring a sense of design to the project - having empathy toward how someone wants to live their life and making that come alive."

Summary: Joe is a staff architect working for a large firm. This is lorem ipsum text, frequently used in the publishing world as placeholder copy. Aenean dignissim, lorem in tempus volutpat, felis mi malesuada magna, at sagittis ipsum odio id nisl. Sed lacus eros, iaculis nec porttitor sit amet, ornare ac erat. Etiam hendrerit eros luctus dui lacinia ac lacinia odio fermentum. Nullam auctor lectus et velit ultricies condimentum. Ut fermentum pulvinar est quis varius.

Background

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean dignissim, lorem in tempus volutpat, felis mi malesuada magna, at sagittis ipsum odio id nisl. Sed lacus eros, iaculis nec portitor sit amet, ornare ac erat. Etiam hendrerit eros luctus dui lacinia ac lacinia odio fermentum. Nullam auctor lectus et velit ultricies condimentum. Ut fermentum pulvinar est quis varius. Nunc risus nisi, placerat eget facilisis eu, lacinia ac mauris. Sed pharetra bibendum ante a lobortis. Praesent eu justo a nulla mattis vehicula. Nullam ullamcorper eros in arcu..

Job responsibilities

Joe's job is focused on:

- Phasellus sed nisl ac mauris ullamcorper accumsan.
- Curabitur sodales viverra leo.
- Aenean quis bibendum sapien.
- Vestibulum ante ipsum primis in faucibus orci luctus et ultrices
- Quisque vitae nulla id ipsum euismod
- Curabitur ultrices est vitae justo varius eget aliquet elit pretium.
- Sed facilisis consectetur accumsan.

Software and technology

Phasellus nulla odio, semper quis tempor ut, lobortis id ipsum. Praesent tempus orci in metus lacinia vitae cursus ipsum feugiat. Etiam non dui quam. Etiam tempus euismod sem, vitae cursus nibh porta viverra. Nullam mi nisl, tincidunt nec condimentum nec, pretium at urna. Quisque tellus nibh, fringilla non porttitor sit amet, bibendum non quam. Nullam enim sem, molestie non bibendum vestibulum, congue quis dui.

Team member interactions

Phasellus sed nisl ac mauris ullamcorper accumsan. Curabitur sodales viverra leo, eu interdum velit porttitor id. Nam quis suscipit mauris.

Current painpoints

Sed facilisis consectetur accumsan. Nunc a viverra nunc. Nullam fringilla, augue et ultrices pretium, nunc eros consectetur lacus, eu accumsan dolor leo vel dui. Proin sed neque mi. Nulla quis erat eros, eu egestas orci. Donec congue odio ultricies diam accumsan non placerat sem porta. Suspendisse vitae nisi sapien, nec gravida felis. Fusce facilisis egestas augue, vel cursus ante volutpat ut. Duis rhoncus, dolor et ornare rhoncus, arcu est egestas massa, non elementum est nulla ac lacus. Proin venenatis dui non arcu pellentesque nec tincidunt quam eleifend.

Work environment

Cras eu erat sed nisi rutrum pretium. Suspendisse justo metus, pharetra id vulputate ut, ultrices sit amet nibh. Morbi aliquam, elit a auctor ultricies, arcu ligula eleifend sem, rhoncus tempor nulla eget risus.

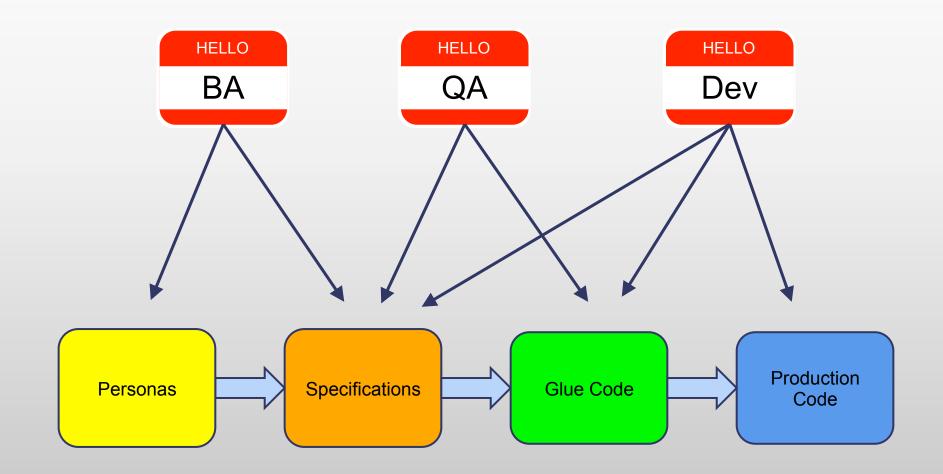
Collaboration

Phasellus nulla odio, semper quis tempor ut, lobortis id ipsum. Praesent tempus orci in metus lacinia vitae cursus ipsum feugiat. Etiam non dui quam. Etiam tempus euismod sem, vitae cursus bibendum vestibulum, congue quis dui.

Goals in using BPA tools

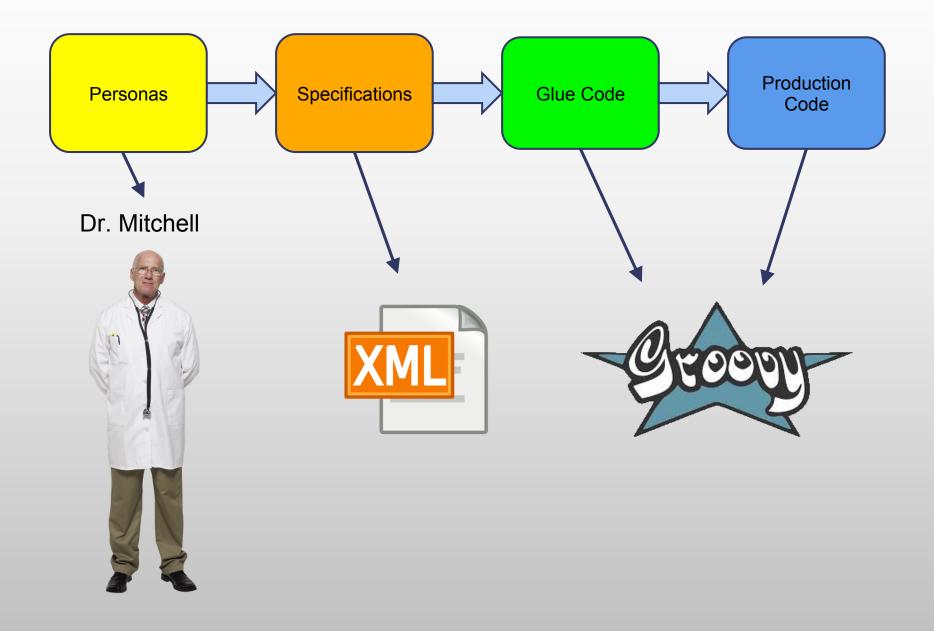
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Quisque justo id erat pharetra facilisis. Maecenas ultricies, enim at suscipit posuere, justo quam pulvinar sem, venenatis fermentum dolor lorem mattis velit.

Julie Lucas - Principal Interaction Designer, Building Performance Analysis, Autodesk, Inc. http://autodesk.typepad.com/bpa/2013/04/know-your-user-designing-with-personas.html











Specifications

<?xml version="1.0" encoding="UTF-8"?> <actions id="viewPatientFromSchedule"> <action>navigateToDemoSite</action> <action>sleep</action> <action>loginAsDoctor</action> <action>sleep</action> <action>viewTodaysVisits</action> <action>sleep</action> <action>viewSubjectCE</action> <action>sleep</action> <action>logout</action> </actions>



```
package com.cecilgwilliams.users
```

```
import com.cecilgwilliams.browsers.Browser
import com.cecilgwilliams.environments.Environment
import com.cecilgwilliams.pages.WebPage
public class DemoUser {
    private Environment env
    private Browser browser
    private WebPage currentPage
    @Delegate
    private DoctorMitchell doctor
    @Delegate
    private SupervisorOliver supervisor
    DemoUser(Browser browser, Environment env) {
        this.browser = browser
        this.env = env
        doctor = new DoctorMitchell(browser, env)
        supervisor = new SupervisorOliver(browser, env)
    }
    public navigateToDemoSite() {
        currentPage = new WebPage(browser)
        currentPage.navigateTo(env.url)
    }
    public logout(){
        currentPage.findElementById("btnLogout CD").click()
    }
    public closeBrowser(){
        browser.quit()
    ł
```

```
public sleep(){
    sleep(5000)
}
```

}

Glue Code

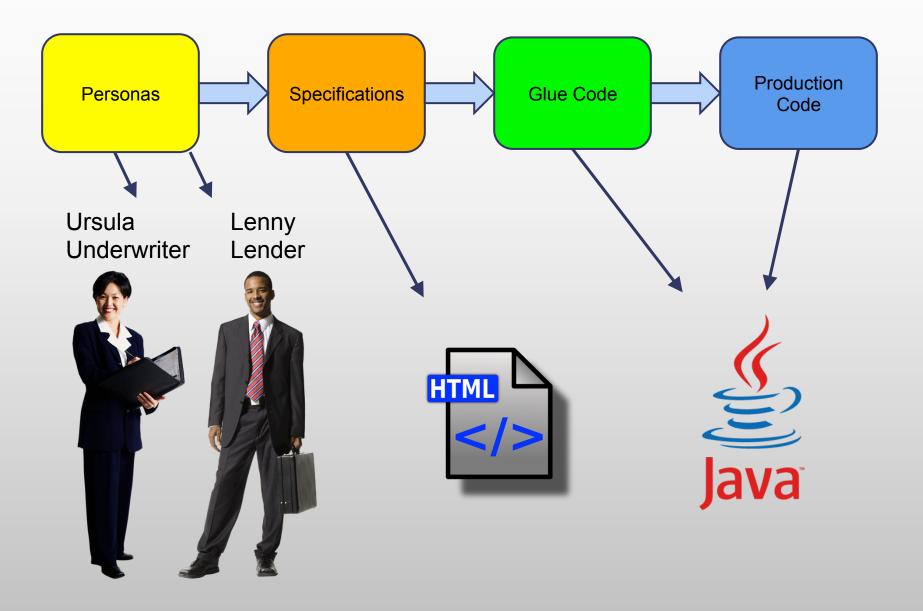


```
package com.cecilgwilliams.users
import com.cecilgwilliams.browsers.Browser
import com.cecilgwilliams.environments.Environment
                                                                                           Glue Code
import com.cecilgwilliams.pages.WebPage
import org.openga.selenium.Keys
public class DoctorMitchell {
    private Environment env
    private Browser browser
    private WebPage currentPage
    DoctorMitchell(Browser browser, Environment environment) {
        this.browser = browser
        this.env = environment
        currentPage = new WebPage(browser)
    3
    public loginAsDoctor() {
       currentPage.findElementById("loginPhotoP dmitchell").click()
        sleep(5000)
       currentPage.findElementById("Passworddmitchell I").sendKeys(Keys.ENTER)
   }
    public viewTodaysVisits() {
       currentPage.findElementByXpath("//a[@href='/RWA/ClinicalStudy/DataCapture/Schedule']", 5).click()
   ł
   public viewSubjectCE(){
       currentPage.findElementByLinkText("CE").click()
   }
}
```

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		Macintosh HD
		DrMitchellScenarios.png
RMBP12-2:EasyAT cecil\$	bash — 100×30	Markup Rotate Edit Search
KMBP12-2:EaSyAT Cecilà	🚼 source allies	Powered by People in Slipper
		<pre>?xml version="1.0" encoding="UTF-8"?> actions id="viewPatientFromSchedule"></pre>



FitNesse

FrontPage. IntegrationTests. NewAlpha. UnderWritingScreen. ReDecisionTierUntilTitleX

Last modified anonymously on Sep 09, 2014 at 10:15:19 AM

- Set Up: .FrontPage.IntegrationTests.SetUp (edit)
- 1) Credit Worthy Applicant Only Boris applies for a Loan Type with 3 Tiers
- 2) The app proceeds to underwriting
- 3) Underwriting is complete and Boris is assigned the lowest (3rd) tier
- 4) Lender Cert is Requested
- 5) Ursula receives additional Income information and enters it on the Underwriting screen
- 6) The Tier is redecisioned to Tier 2
- 7) Lender Cert is received and School Cert is requested
- 8) Ursula receives additional Income information and enters it on the Underwriting screen
- 9) The Tier is redecisioned to Tier 1
- 10) School Cert is Received, Title X Disclosures are Requested

11) Ursula receives more income information; he goes to the Underwriting screen, but the Doc and Debt sections are all Uneditable; the Tier cannot be redecisioned

IOWA STUDENTLOAN®

Expand All | Collapse All

Specifications

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FrontPage. IntegrationTests. NewAlpha. UnderWritingScreen. ReDecisionTierUntilTitleX

Last modified anonymously on Sep 09, 2014 at 10:15:19 AM

Set Up: .FrontPage.IntegrationTests.SetUp (edit)

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11) Ursula receives more income information; he goes to the Underwriting screen, but the Doc and Debt sections are all Uneditable; the Tier cannot be redecisioned

connie	
Configures Tiers For Loan Type	Beta Credit Union Credit Worthy ISU Loan
sort order	minimum annual income
0	25000
1	20000
2	15000

- [GENESIS] Credit Worthy Applicant Only, Request Lender Cert
- ▼ [ALPHA] Ursula completes applicant only and boris gets third tier

variable defined: regDocs1= |applicantW2Required|true| |applicantW2Received|true| |applicantPaycheckRequired|true| |applicantAnnualPaycheckAmount|15000|

Ursula		
Goes To Underwriting		
	applicantW2Required	true
Checks In All Required Documents	applicantW2Received	true
	applicantPaycheckRequired	true
	applicantAnnualPaycheckAmount	15000

Ursula	
All Underw	riting Fields Editable
has table	critical_info_tier
	0
0	Price Tier: 3/3





Specifications



Expand All | Collapse All



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•					Expand All Collapse All
LENNY REC	EIVES LENDER CERT F	REQUEST			
variable def	fined: lenderCertRequest	Field= ssn 123	456789 last nan	ne JONE	
Lenny					
Penniver Le	ender Certification Reque	ssn	123456789		
Receives Le	ender Certification Reque	last name	JONES		
		first name	JOE		
۷					
URSULA INC	CREASES INCOME TO	2ND TIER LEV	EL (TIER REDEC	SIONE	
			true applicantV	V2Receiv	ived true applicantPaycheckRequired true
applicantA	nnualPaycheckAmount 2	0000			
Ursula					
Goes To Un	derwriting				
	-				
	_	applicantW2Re	quired	true	
Checks In A	All Required Documents	applicantW2Re	ceived	true	
		applicantPaych	eckRequired	true	
		applicantAnnua	lPaycheckAmount	20000	
Ursula					
	riting Fields Editable				
has table	critical_info_tier				
	0				
0	Price Tier: 2/3				
V					
•					Expand All Collapse All
Lender Ce	RT RECEIVED, SCHOO	OL CERT REQU	IESTED		
variable def	fined: fileRequestedEven	t=School Certifi	cation File Reques	sted	
History Doe	es Not Contain School Ce	rtification File	Requested		
Lenny					
	embership true				FitNesse
			_		
History Con	ntains School Certificatio	n File Requeste	d		

URSULA INCREASES INCOME TO 1ST TIER LEVEL (TIER REDECISIONED)

variable defined: reqDocs3= |applicantW2Required|true| |applicantW2Received|true| |applicantPaycheckRequired|true| |applicantAnnualPaycheckAmount|25000|

Ursula		
Goes To Underwriting		
Checks In All Required Documents	applicantW2Required applicantW2Received applicantPaycheckRequired applicantAnnualPaycheckAmount	true true true 25000

Ursula	
All Underw	riting Fields Editable
has table	critical_info_tier
	0
0	Price Tier: 1/3

Sylvia sends matching scho	OL CERT	
Incoming Files		
Sylvia		
Sends Matching Certification File		
Ursula		
All Underwriting Fields Not Editable	applicantRequiredDocumentsTable	
All Underwriting Fields Not Editable	applicantDebtIncomeRatioTable	
has table	critical_info_tier	
	0	

Tear Down: .FrontPage.IntegrationTests.TearDown (edit)

Price Tier: 1/3

0

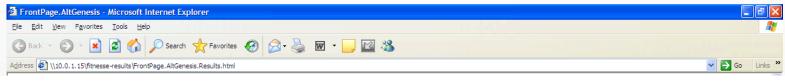
Specifications



Expand All | Collapse All



Expand All | Collapse All



FrontPage.

AltGenesis



COMMAND LINE TEST RESULTS

94 right, o wrong, o ignored, o exceptions applicantiziones, applicantizionino-toaninionideteuness, autoinated rests
65 right, 0 wrong, 0 ignored, 0 exceptions ApplicantStories.ApplicantLoanInfol.LoanInfolndebtednessitems.AutomatedTests
14 right, 0 wrong, 0 ignored, 0 exceptions ApplicantStories.ApplicantLoanInfo.LoanInfoLoanAmount.AutomatedTests
624 right, 0 wrong, 0 ignored, 0 exceptions ApplicantStories.ApplicantLoanInfo.LoanInfoMain.AutomatedTests
180 right, 0 wrong, 0 ignored, 0 exceptions ApplicantStories.ApplicantPickSchool.AutomatedTests
31 right, 0 wrong, 0 ignored, 0 exceptions ApplicantStories.ApplicantPrintsCosignerAddendum.AutomatedTests
718 right, 0 wrong, 0 ignored, 0 exceptions ApplicantStories.ApplicantReferences.AutomatedTests
44 right, 0 wrong, 0 ignored, 0 exceptions ApplicantStories.ApplicantReturnsToCompleteSavedApplication.AutomatedTests
132 right, 0 wrong, 0 ignored, 0 exceptions ApplicantStories.ApplicantRunCredit.AutomatedTests
4 right, 0 wrong, 0 ignored, 0 exceptions ApplicantSelectsOtherFromSchoolListbox.AutomatedTests
29 right, 0 wrong, 10 ignored, 0 exceptions ApplicantStories.ApplicantStor
306 right, 0 wrong, 0 ignored, 0 exceptions ApplicantStories.DisplayProgressBar.AutomatedTests
48 right, 0 wrong, 0 ignored, 0 exceptions ApplicantStories.NoPhone.AutomatedTests
196 right, 0 wrong, 0 ignored, 0 exceptions ApplicantStories.ParentPartnershipSelectLoanType.AutomatedTests
2107 right, 0 wrong, 0 ignored, 0 exceptions ApplicantStories.PrintApplication.AutomatedTests
1871 right, 0 wrong, 0 ignored, 0 exceptions ApplicantStories.PrintParentApplication.AutomatedTests
153 right, 0 wrong, 0 ignored, 0 exceptions ApplicantStories.SelectLoanType.AutomatedTests
668 right, 0 wrong, 0 ignored, 0 exceptions BudgetWorksheetStandAone.AutomatedTests
356 right, 0 wrong, 0 ignored, 0 exceptions BudgetWorksheet.BudgetWorksheetWebPage.AutomatedTests
44 right, 0 wrong, 0 ignored, 0 exceptions BusinessRules.ApplicantUnderEighteen.AutomatedTests
10 right, 0 wrong, 0 ignored, 0 exceptions BusinessRules.CompareAddresses.AutomatedTests
37 right, 0 wrong, 0 ignored, 0 exceptions BusinessRules.CompareApplicantAndReferences.AutomatedTests
6 right, 0 wrong, 0 ignored, 0 exceptions BusinessRules.CompareCosginerAndApplicant.AutomatedTests
17 right, 0 wrong, 0 ignored, 0 exceptions BusinessRules.CompareCosignerAndApplicantReference.AutomatedTests
40 right, 0 wrong, 0 ignored, 0 exceptions BusinessRules.CompareCosignerAndCosignerReferences.AutomatedTests
24 right, 0 wrong, 0 ignored, 0 exceptions BusinessRules.CompareCosignerTwo.AutomatedTests
10 right, 0 wrong, 0 ignored, 0 exceptions BusinessRules.ComparePersons.AutomatedTests
5 right, 0 wrong, 0 ignored, 0 exceptions BusinessRules.CompareStudentAndApplicant.AutomatedTests
7 right, 0 wrong, 8 ignored, 0 exceptions BusinessRules.CompareStudentAndApplicantReference.AutomatedTests
7 right, 0 wrong, 0 ignored, 0 exceptions BusinessRules.CompareStudentAndCosigner.AutomatedTests
9 right, 0 wrong, 0 ignored, 0 exceptions BusinessRules.CompareStudentAndCosignerReferences.AutomatedTests
6 right, 0 wrong, 0 ignored, 0 exceptions BusinessRules.CreateCommonLineUniqueId.AutomatedTests
25 right, 0 wrong, 0 ignored, 0 exceptions CosignerStories.CosignerAttemtpsToCosigneApprovedLoan.CosignerAttemtpsToCosigneApprovedLoan.AutomatedTests
1099 right, 0 wrong, 0 ignored, 0 exceptions CosignerStories.CosignerDemographics.AutomatedTests

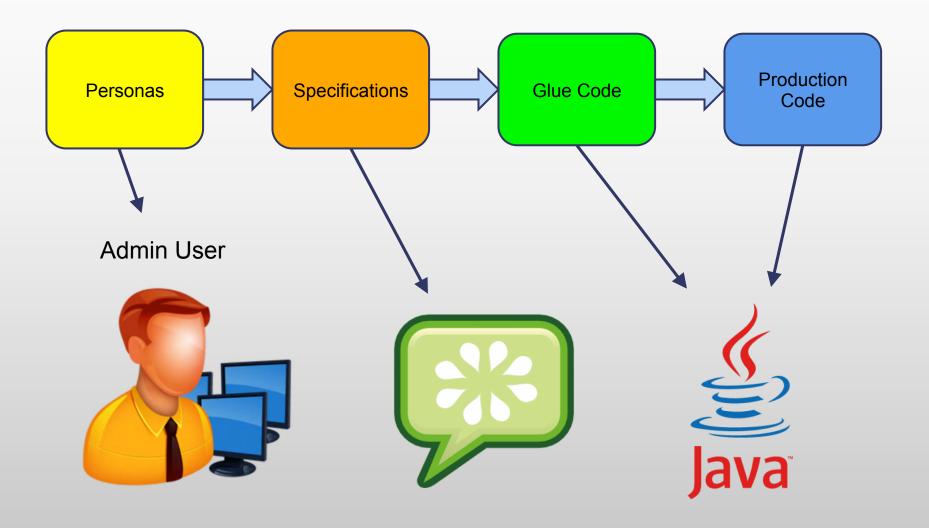
The Pragmatic Programmers

Cucumber Book

Behaviour-Driven Development for Testers and Developers

Matt Wynne and Aslak Hellesøy

edited by Jacquelyn Carter



Feature: Login

As an Admin I want to be able to log in and out of ARMs So that I can access my ARMs account securely

Scenario: Login as admin

Given the user admin exists And the user is on the login page When admin authenticates with valid login information Then admin should see his user information in the badge on the home page

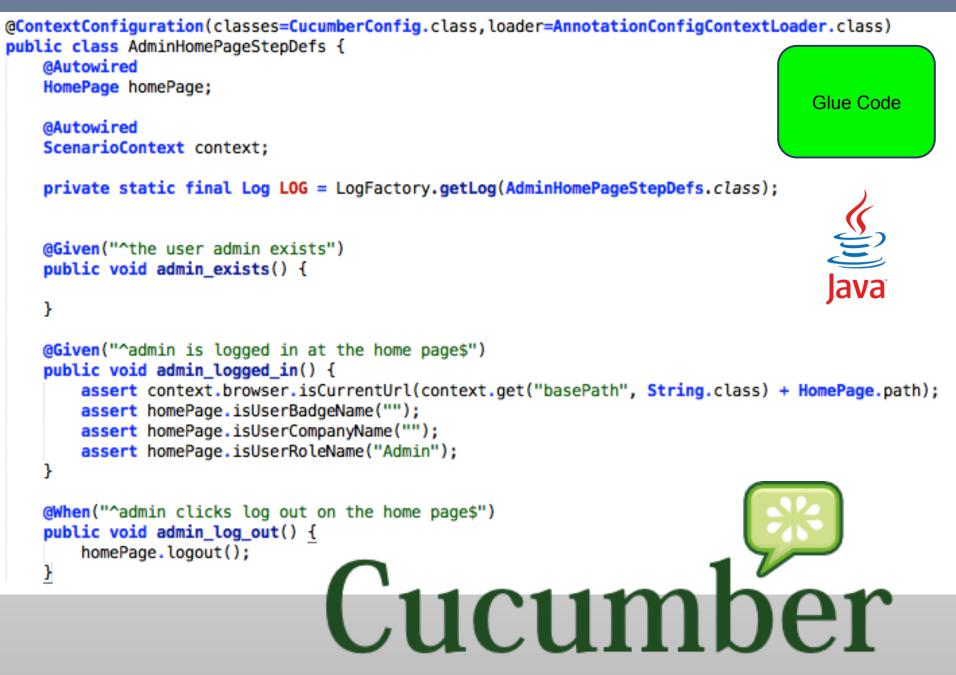
Scenario: Log out as admin

Given admin is logged in at the home page When admin clicks log out on the home page Then the user should be on the login page



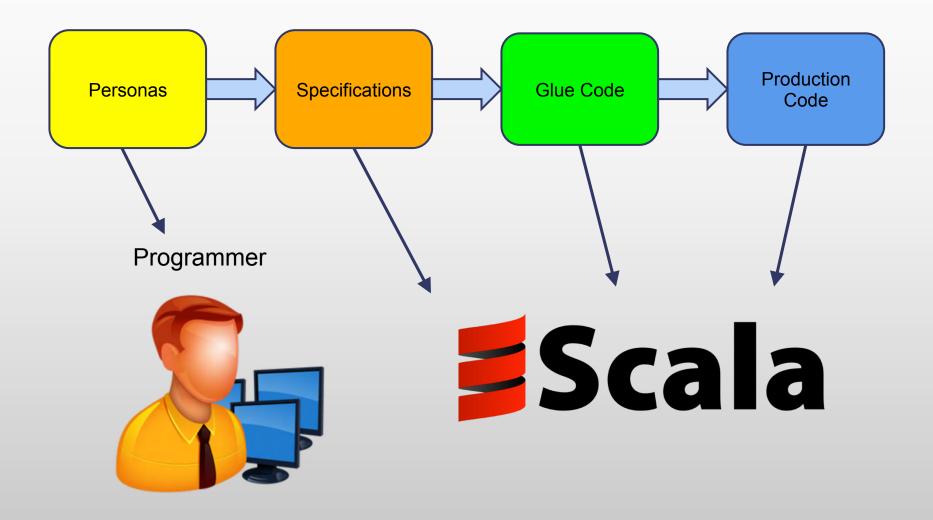


Specifications



@ContextConfiguration(classes=CucumberConfig.class,loader=AnnotationConfigContextLoader.class)
public class HomePage {

```
@Autowired
                                                                         Glue Code
private ScenarioContext context;
public boolean isUserBadgeName(String username){
   WebElement userName = context.browser.findElementById("employeeName");
    return userName.getText().trim().equals(username);
public void logout() {
   context.browser.clickAndWait("signout");
}
public boolean isUserCompanyName(String companyName) {
   WebElement userCompanyName = context.browser.findElementById("employeeCompany");
    return userCompanyName.getText().trim().equals(companyName);
}
public boolean isUserRoleName(String roleName) {
   WebElement userRole = context.browser.findElementById("employeeRole");
   return userRole.getText().trim().equals(roleName);
}
                          Cucumber
```



import org.scalatest.FeatureSpec

class ExampleSpec extends FeatureSpec {

feature("The user can pop an element off the top of the stack") {

scenario("pop is invoked on a non-empty stack") (pending)

scenario("pop is invoked on an empty stack") (pending)
}



\$ scala -cp scalatest-2.2.4.jar org.scalatest.run ExampleSpec Run starting. Expected test count is: 2 ExampleSpec: Feature: The user can pop an element off the top of the stack Scenario: pop is invoked on a non-empty stack (pending) Scenario: pop is invoked on an empty stack (pending) Run completed in 65 milliseconds. Total number of tests run: 0 Suites: completed 1, aborted 0 Tests: succeeded 0, failed 0, ignored 0, pending 2 All tests passed.

ScalaTest[™]

```
import org.scalatest.FeatureSpec
import org.scalatest.GivenWhenThen
```

class ExampleSpec extends FeatureSpec with GivenWhenThen {

feature("The user can pop an element off the top of the stack") {

```
info("As a programmer")
info("I want to be able to pop items off the stack")
info("So that I can get them in last-in-first-out order")
```

```
scenario("pop is invoked on a non-empty stack") {
```

```
given("a non-empty stack")
when("when pop is invoked on the stack")
then("the most recently pushed element should be returned")
and("the stack should have one less item than before")
pending
```

```
}
```

```
scenario("pop is invoked on an empty stack") {
```

```
given("an empty stack")
when("when pop is invoked on the stack")
then("NoSuchElementException should be thrown")
and("the stack should still be empty")
pending
}
```





```
scenario("pop is invoked on a non-empty stack") {
  given("a non-empty stack")
  val stack = new Stack[Int]
  stack.push(1)
  stack.push(2)
  val oldSize = stack.size
  when("when pop is invoked on the stack")
  val result = stack.pop()
  then("the most recently pushed element should be returned")
  assert(result === 2)
  and("the stack should have one less item than before")
  assert(stack.size === oldSize - 1)
}
Glue Code
```

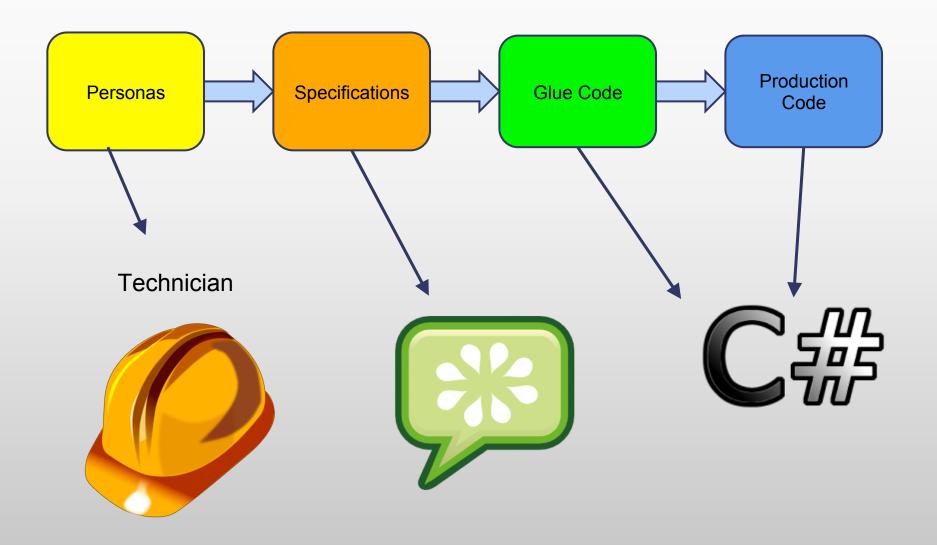


\$ scala -cp scalatest-2.2.4.jar org.scalatest.run ExampleSpec Run starting. Expected test count is: 2 ExampleSpec: Feature: The user can pop an element off the top of the stack As a programmer I want to be able to pop items off the stack So that I can get them in last-in-first-out order Scenario: pop is invoked on a non-empty stack Given a non-empty stack When when pop is invoked on the stack Then the most recently pushed element should be returned And the stack should have one less item than before Scenario: pop is invoked on an empty stack Given an empty stack When when pop is invoked on the stack Then NoSuchElementException should be thrown And the stack should still be empty Run completed in 96 milliseconds. Total number of tests run: 2 Suites: completed 1, aborted 0 Tests: succeeded 2, failed 0, ignored 0, pending 0 All tests passed.

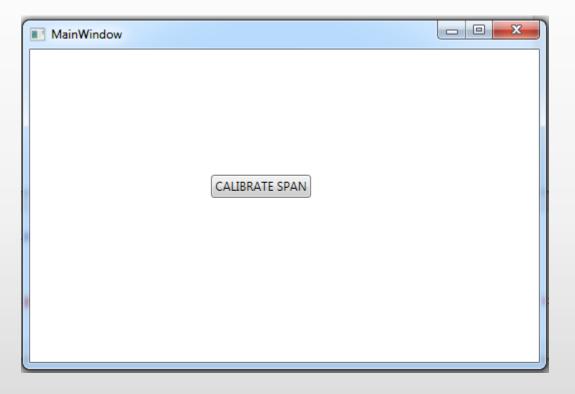
ScalaTest[™]











<Button DockPanel.Dock="Top" Content="CALIBRATE SPAN" Command="{Binding CalibrationViewModel.CalibrationCommand}" HorizontalAlignment="Center" Focusable="False" Margin="5" Padding="15,2">

Feature: CalibrateTheInstrument

As a Technician, I want to calibrate the instrument So that the instrument will operate properly

Scenario: Instrument Calibration

Given Technician starts the application

And Technician views the instrument configuration

When Technician invokes an instrument calibration

Then Technician should see the calibration status message "Calibration in progress . . ."

- And Technician is unable to invoke a calibration again
- When Technician waits 15 seconds

Then Technician should see the calibration status message "Instrument Calibrated"



Specifications



{

{

```
using AcceptanceTests.Personas;
using TechTalk.SpecFlow;
```

```
namespace AcceptanceTests
```

```
public class CalibrateTheInstrument
{
    private Technician _technician = Technician.GetTechnicianInstance();
    [When(@"Technician invokes an instrument calibration")]
    public void WhenTechnicianInvokesAnInstrumentCalibration()
    {
    _technician.InvokeInstrumentCalibration();
    }
```



Glue Code

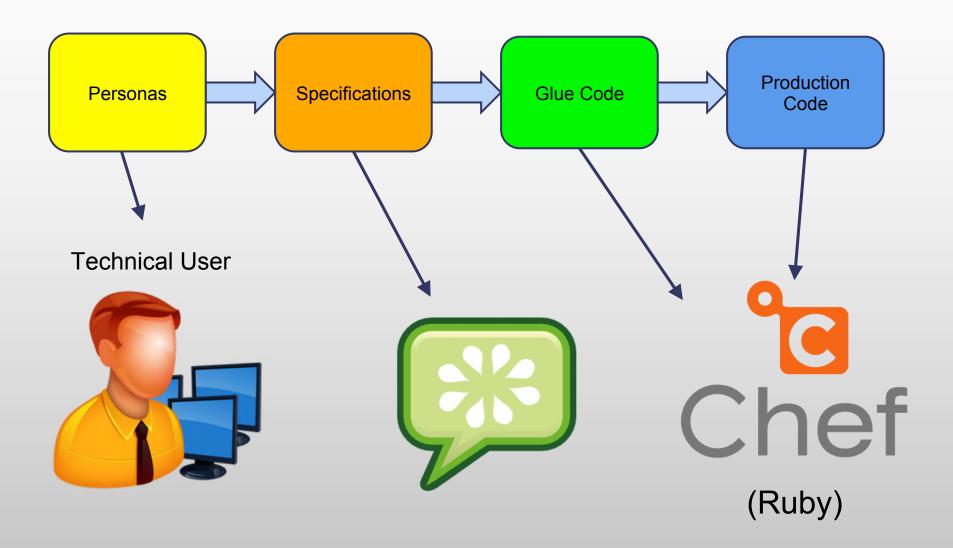
```
namespace AcceptanceTests.Personas
```

```
public class Technician
{
CalibrationViewModel _calibrationViewModel;
public bool InvokeInstrumentCalibration()
{
    _calibrationViewModel.CalibrationCommand.Execute(null):
    return true;
}
Cucumber for .NET
```

Phot Edition **O'REILLY**° Test-Driven Infrastructure with Chef

BRING BEHAVIOR-DRIVEN DEVELOPMENT TO INFRASTRUCTURE AS CODE

Stephen Nelson-Smith



Feature: Technical team members can log into team server

So that we are more efficient with our time As a technical team We can connect to a shared server to collaborate on client work

Scenario: Users can connect to server via ssh key Given a newly bootstrapped server When the technical users recipe is applied Then a user should be able to ssh to the server

Scenario: Default shell is bash Given a newly bootstrapped server When the technical users recipe is applied And a user connects to the server via ssh Then their login shell should be "bash"

Scenario: Users can change the default shell Given a newly bootstrapped server But with a user's default shell changed to "ksh" When the technical users recipe is applied And the user connects to the server via ssh Then their login shell should be "ksh"

Specifications





Feature: Highly Available Jenkins

Infrastructure developers should be able to enjoy uninterrupted access to their build jobs. Background:

Given I have provisioned the following infrastructure:

Server Name O	perating System	Architecture	Version	Chef Version	Run List
lb1 C	ent0S	64 bit	6.4	11.4.4	tedious::ha
	entOS	64 bit	6.4	11.4.4	tedious::ha
jenkins1 C	entOS	64 bit	6.4	11.4.4	tedious::jenkins
jenkins2 C	entOS	64 bit	6.4	11.4.4	tedious::jenkins

And 'http://tedio.us' resolves to the virtual IP of the loadbalancer

Scenario: Jenkins should be available

Infrastructure developers should be able to reach and use a Jenkins server.
When I try to download the Jenkins CLI tool
Then the download will succeed
And when I query the version number
Then the version number will be returned

Scenario: Jenkins should be load-balanced

Infrastructure developers should be able to use Jenkins in the event of a Jenkins server failure
Given I am using a Jenkins server
When that Jenkins server is switched off
Then I should be able to reach an alternative Jenkins server

Scenario: Load balancers should be in a redundant pair Given that I am using Jenkins When one of the load balancers is switched off Then I should still be able to use Jenkins

Glue Code

Chef

require 'leibniz'
require 'faraday'

Given(/^I have provisioned the following infrastructure:\$/) do |specification|
 @infrastructure = Leibniz.build(specification)
end

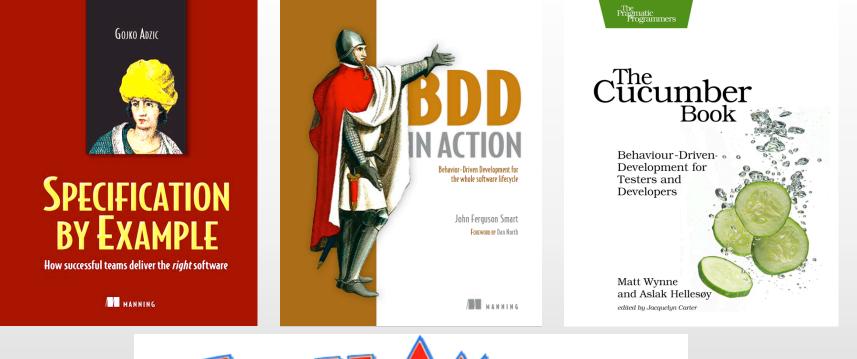
```
Given(/^I have run Chef$/) do
@infrastructure.destroy
@infrastructure.converge
end
```

```
Given(/^a url "(.*?)"$/) do |url|
    @host_header = url.split('/').last
end
```

expect(@page).to match /#{content}/

```
end
```

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