Testing



> ACCEPTANCE TESTING

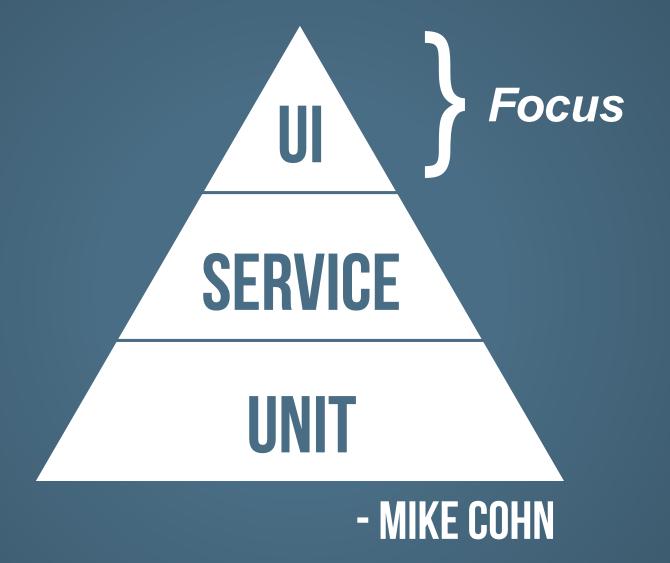
ACCEPTANCE TEST DRIVEN DEVELOPMENT

BUILD THE THING RIGHT

TDD

ATDD

BUILD THE RIGHT
RIGHT
HING







GHERKIN



CUCUMBER



CALABASH & UITEST



GIVEN WHEN THEN

FEATURES

_____ and _____

SCENARIOS

G H E R K I N

```
1: Feature: Some terse yet descriptive text of what is desired
2: Textual description of the business value of this feature
3:
4: Scenario: Some determinable business situation
5: Given some precondition
6: When some action by the actor
7: Then some testable outcome is achieved
8:
9: Scenario: A different situation
10: ...
```

G H E R K I N

```
1: Scenario: Some determinable business situation
2: Given some precondition
3:          And some other precondition
4:          When some action by the actor
5:          And some other action
6:          But yet another action
7:          Then some testable outcome is achieved
8:          And something else we can check happens too
```



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H O O K S

```
Before do |scenario|
1:
2.
       scenario tags = scenario.source tag names
       if scenario tags.include?('@reinstall')
3:
4
          || !INSTALLATION STATE[:installed]
5:
         uninstall_apps
         install app(ENV['TEST APP PATH'])
6:
7:
         install app(ENV['APP PATH'])
         INSTALLATION STATE[:installed] = true
8:
9:
       end
10:
11:
       start test server in background
12:
     end
```

1: After do |scenario|
2: shutdown_test_server

3: end

H O O K S

```
Before | scenario |
After | scenario |
Around do |scenario, block|
AfterStep do |scenario|
Before('@slow') do |scenario|
Before('@fast, @regression', '@automatic') do |scenario|
```



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HOW DOES IT WORK







IT DOESN'T

TESTING ON THE

CLIENT

CALABASH UITEST

JSON OVER HTTP

SERVER

TEST SERVER YOUR APP

TESTING ON

CLIENT

CALABASH
UITEST

SERVER

YOUR
APP

TESTING ON CE

Components > Xamarin Test Cloud



Publisher Xamarin Inc

> Category Libraries

> > Price Free

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Tags

Xamarin Test Cloud 10.2

Xamarin Inc

Run automated acceptance tests of your iOS and Android apps.

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6 ratings Compatible with

Xamarin Test Cloud enables you to write and execute automated acceptance tests of mobile apps. It provides APIs that are specialized to interactive with native iOS and Android apps running on touch screen devices. When combined with Xamarin Test Cloud, you can automatically test your app on hundreds of mobile devices.

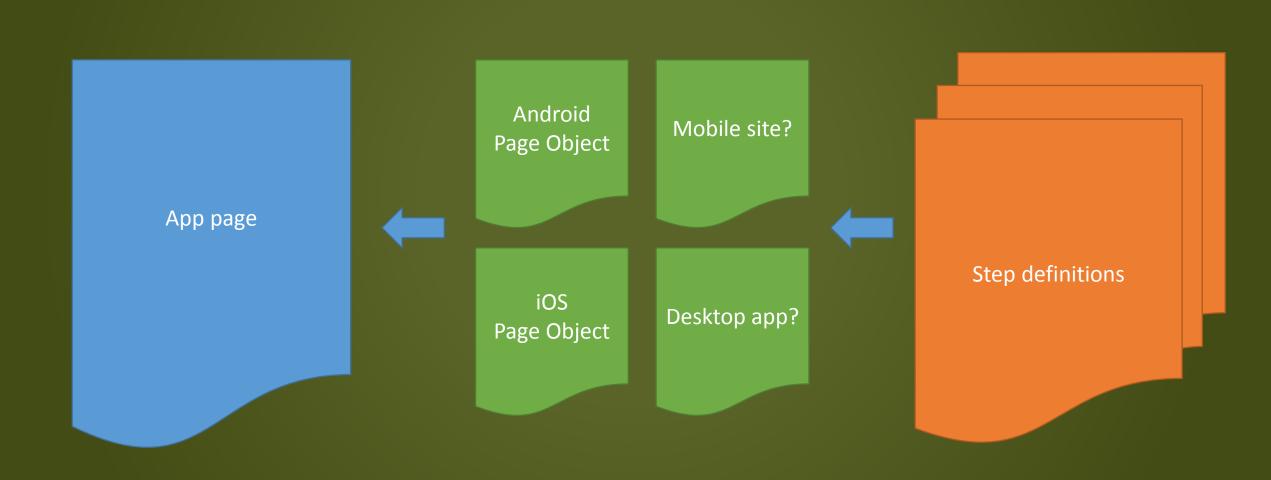
Xamarin Test Cloud consists of libraries that enable test-code to programmatically interact with native and hybrid apps. The interaction consists of a number of end-user actions. Each action can be one of:

Gestures

Touches or gestures (e.g., tap, swipe and rotate).

CROSS-PLATFORM?

PAGE OBJECTS



PAGE OBJECTS

Android Page Object

iOS Page Object

```
1: require 'calabash-android/abase'
                                             1: require 'calabash-cucumber/ibase'
2:
                                             2:
    class MainPage < Calabash::ABase</pre>
                                                 class MainPage < Calabash::ABase</pre>
4:
                                             4:
5:
     def trait
                                             5:
                                                   def trait
6:
     "android.widget.TextViewtext:'Card'"6:
                                                   "* text:'Validate Credit 7:Card'"
8:
                                             8:
     end
                                                   end
9:
                                             9:
10: end
                                             10: end
```

CROSS-PLATFORM

- 1. Only use custom steps (Calabash only)
- 2. A page object interface for each screen
- 3. Implement all page objects for each platform
- 4. Rejoice and profit!



QUERY SYNTAX

query("button")

```
[{"id"=>"login_button",
 "enabled"=>true,
 "contentDescription"=>nil,
 "text"=>"Login",
 "qualified_class"=>"android.widget.Button",
 "frame"=>{"y"=>322, "height"=>73, "width"=>84, "x"=>135},
 "description"=>"android.widget.Button@40584908",
 "class"=>"Button"},
{"id"=>"login_button_slow",
 "enabled"=>true,
 "contentDescription"=>nil,
 "text"=>"Login (slow)",
 "qualified_class"=>"android.widget.Button",
 "frame"=>{"y"=>322, "height"=>73, "width"=>143, "x"=>234},
 "description"=>"android.widget.Button@40585390",
 "class"=>"Button"}]
```

QUERY SYNTAX

```
Query("* e0 e1 e2 ... etc")
```

ClassName

```
Android: Query("android.widget.Button")
```

iOS: Query("view:'MyClass'")

Filtering

Query("button marked: 'Login'")

QUERY SYNTAX

Direction

Query("* descendant child sibling parent")

Predicate

Query("label {text BEGINSWITH 'Cell 1'}")

WebView Support

Query("webView css: '#header'")

ADVANCED

Methods

```
Query("* marked:'list'", :setSelection => 0)
```

Backdoor

Backdoor("yourMethodName", "string parameter")

EXPLORING THE APP

Calabash

calabash-android console myApp.apk

UITest

Iapp.Rpl()



Best of all

FREE OPEN



XXX Xamarin. UITEST

LINQ SYNTAX

Same api as Calabash in a different form

Just different client





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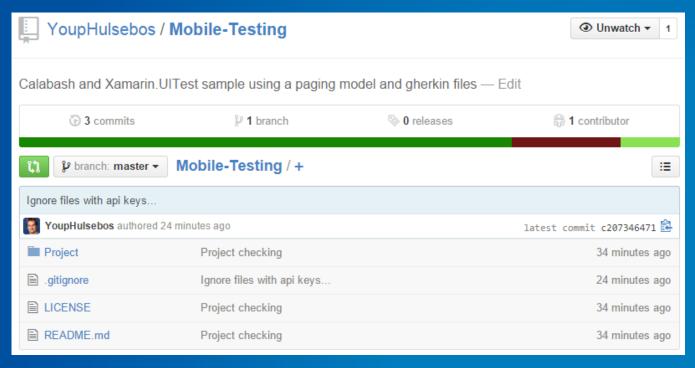
Leaware Warsaw, Poland



Microsec Ltd Hampshire, UK

https://github.com/YoupHulsebos/Mobile-Testing

http://tinyurl.com/lskaTestCloud



THANKS

LINKS

KARL KRUKOW - @KARLKRUKOW

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