

Creating an Automated Testing Framework With Selenium

Introduction

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hardcore developer training

Who This Course Is For

- **Developers or QA**
- **Know the basics of an automation tool**
 - In this course Selenium
- **Want to create a real automation framework**



Welcome to the automation factory

What This Course Covers

- **Module 1: Introduction**
 - Basics of automation
 - Why, and how we'll do it
- **Module 2: Designing The Architecture**
 - How to design an automation framework
- **Module 3: Creating Basic Smoke Tests**
 - The best place to start
- **Module 4: Building Out The Framework**
 - Refactoring
 - Designing framework for more tests
- **Module 5: Best Practices And Tips**
 - Continuous integration, scaling out, Agile, etc.

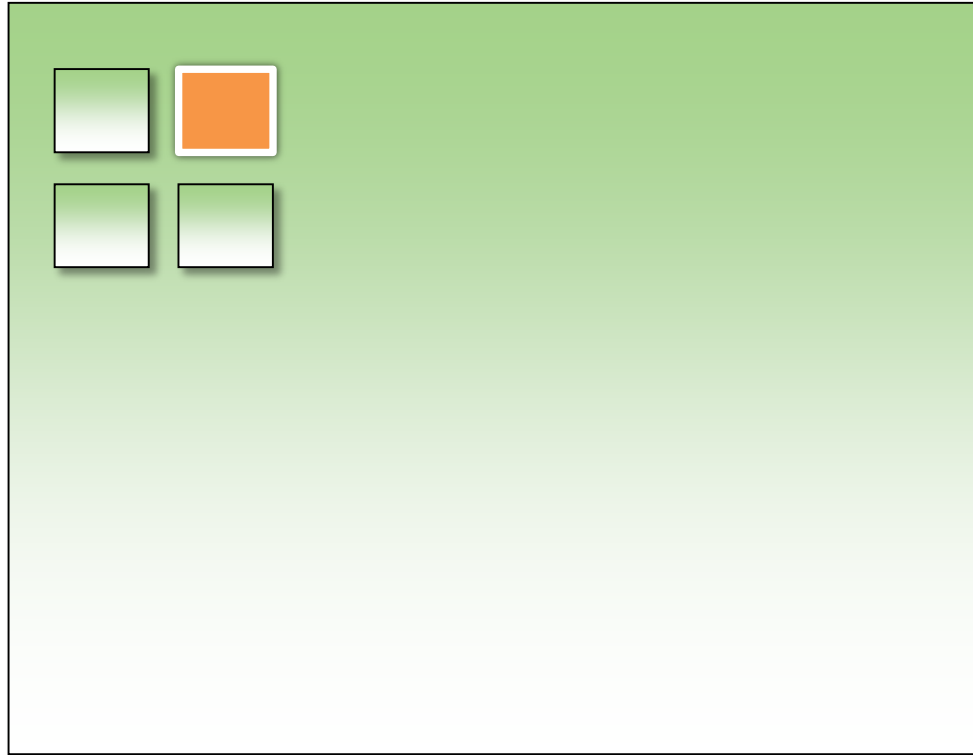


You will learn to automate

Types Of Automated Testing



Unit Testing



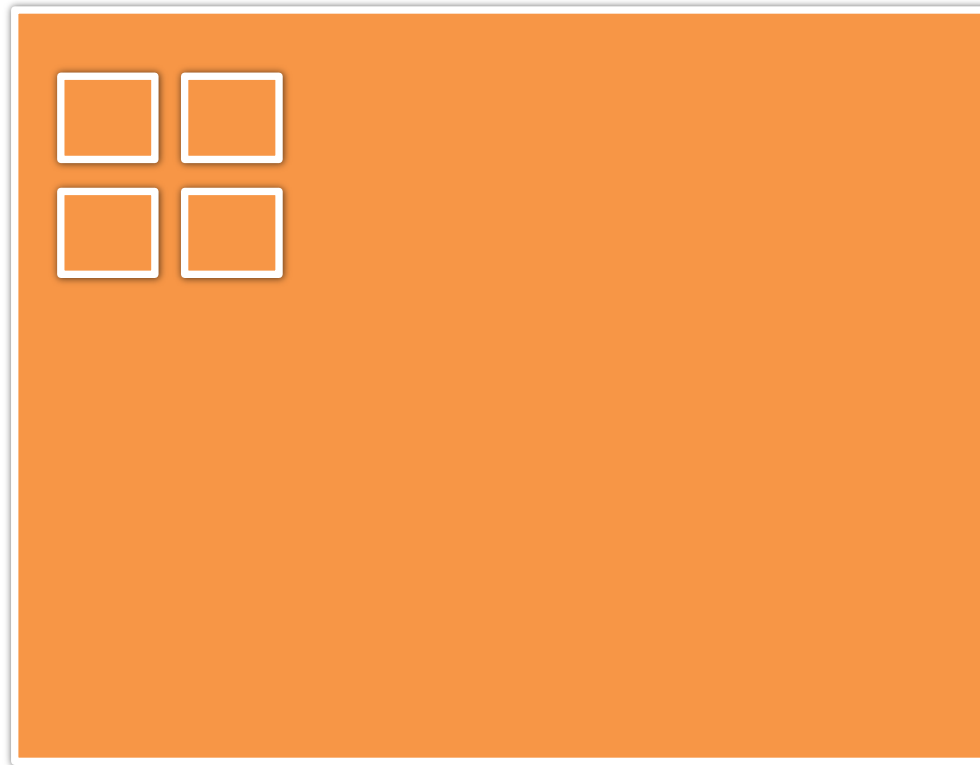
Unit testing tests the smallest unit of code in isolation

Integration Testing



Integration testing tests units together, but still focuses on the code

Blackbox Automated Testing (BAT)



BATs test the system from the perspective of the user

Why Do It?



“Can’t we just use our unit test and integration tests and run other tests manually?”

Regression



"It worked yesterday!"

Absolute Requirements



"This test explains exactly what I want and what you agreed to."

Leverage



BATs test much more production code with fewer lines of BAT code

Common Failure Points



Recorded Brittle Tests



Not Building A Framework



Writing Tests Like Code



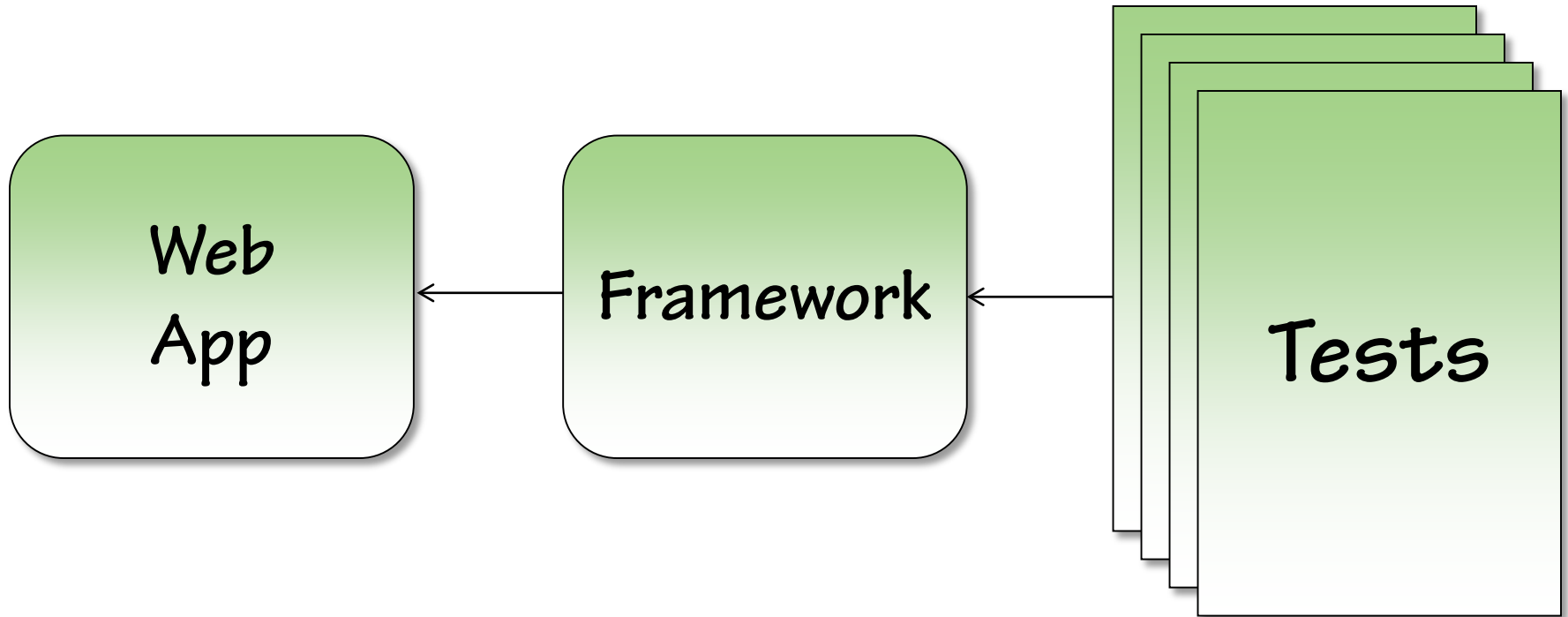
“What the heck am I looking at?”

Our Approach



High five!

Separate Automation Framework



Tests don't directly work against the web app

Simple Tests



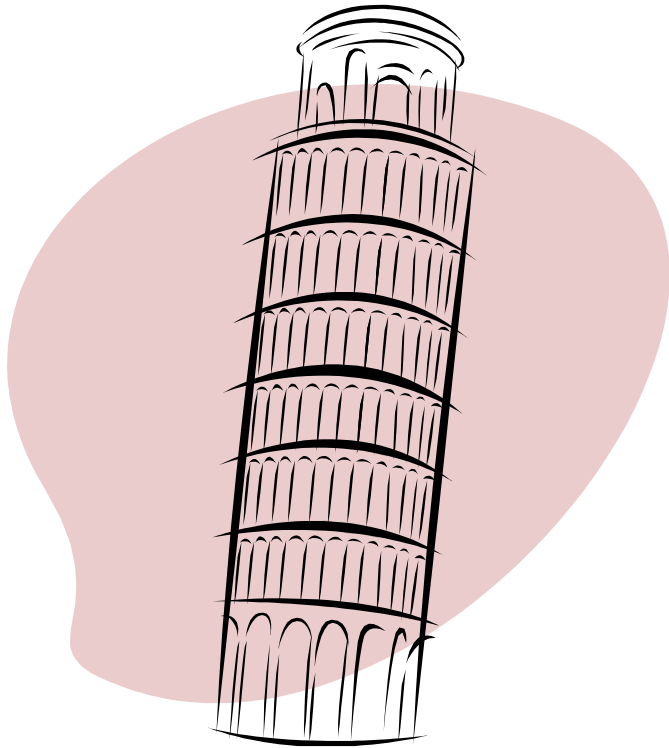
“I totally understand what these tests are doing.”

Tests Drive Creation Of Framework



"I am an automated test. I'll be driving today. You can call me Ricardo."

Up Next



We'll be designing the architecture for our test framework