

TESTING IN SAILS.JS USING MOCHA

REQUIRE('LX')

CONSOLE.LOG('HOWDY!')

Software Engineer at Opensoft
Experimenting with Sails.js

GOALS

Concepts of testing in web applications

Apply these concepts using

- Sails.js
- Mocha
- Chai.js
- Testium

TYPICAL EXCUSES

I only made a small change no need to test

Today I am lazy, I'll test tomorrow

I am in a hurry, I'll test next time

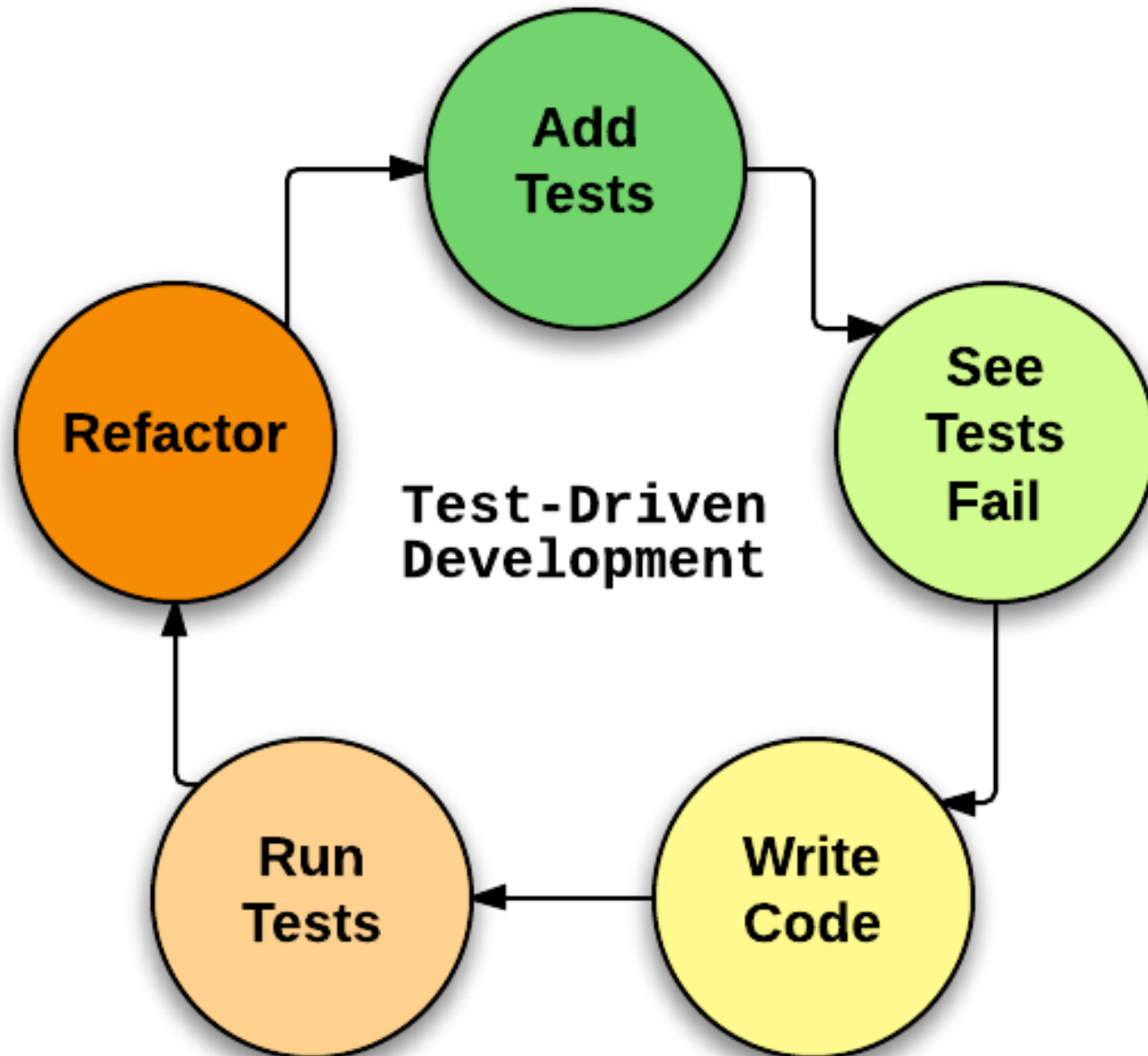
WHY TESTING?

Verify modules correctness in isolation

Regression errors

Documentation

TEST DRIVEN DEVELOPMENT



BENEFITS

Modularized, extensible and flexible code

Test covering all code paths

Productivity

CODE

BEHAVIOR DRIVEN DEVELOPMENT

Feature/Specification driven approach
to TDD

Uses an ubiquitous language

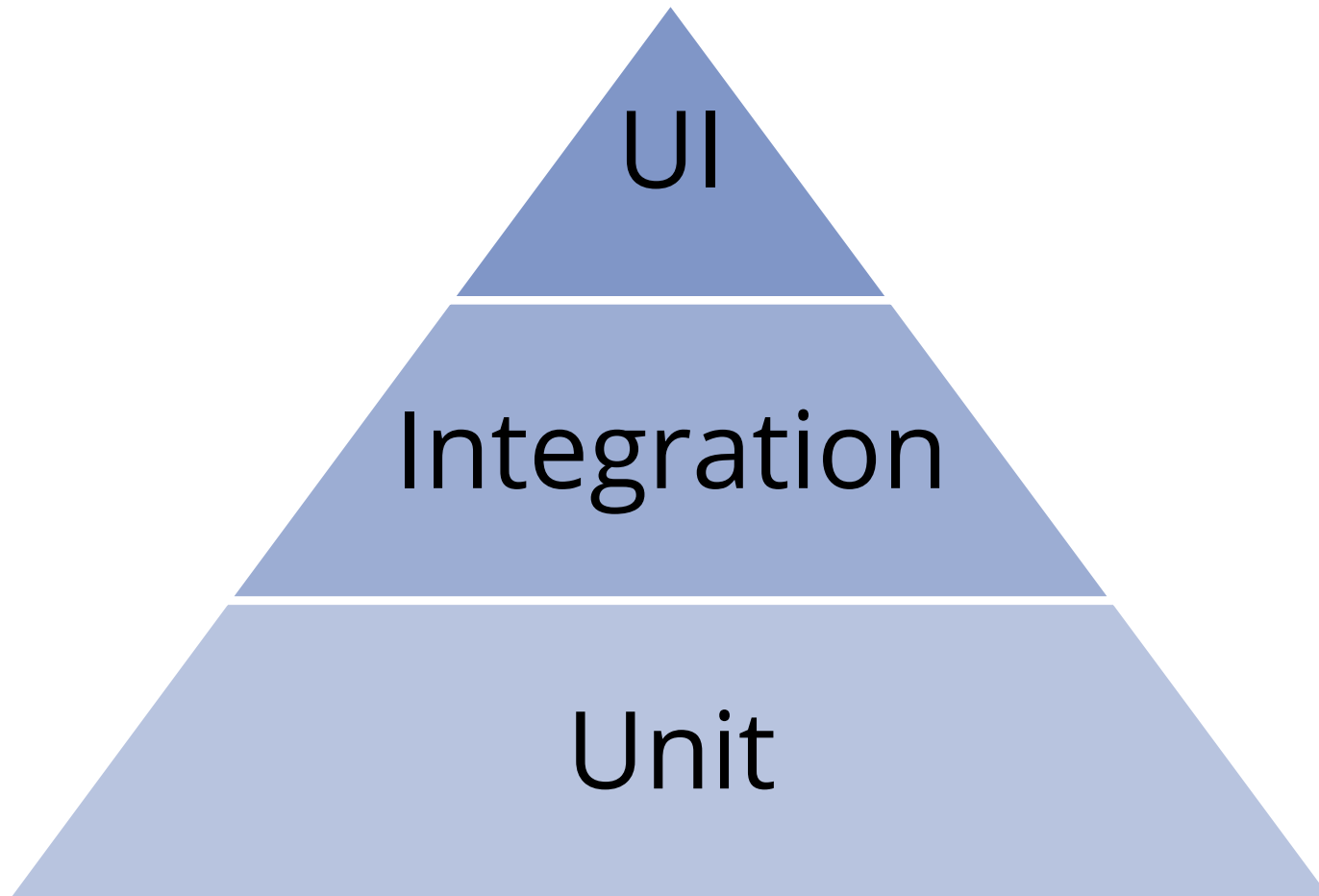
Focus on behavior rather than
implementation

More of a team methodology

Extension to TDD

CODE

TESTING IN WEB APPLICATIONS



SAMPLE APPLICATION

User registration form

- Shows an error message if the form is not completely filled
- Creates a user and redirects to a new page if the form is filled correctly

CODE

UNIT TESTING

Testing form validation (Client Side)

Spec:

- Display an error message if the form is not completely filled
- Submit the form in case it is

`validateForm(name, email, password, form, error`

CODE

INTEGRATION TESTING

Testing UserController.create

Spec:

- Redirect to the form page if there is an error
- Redirect to the success page if everything is OK

Create(req, res, next)

CODE

UI TESTING

Testing the system end-to-end

Often done manually

Can also be automated specially in:

- Error prone tasks
- Time consuming tasks

TESTIUM

Test the code in different browsers (via Selenium) or headlessly (via PhantomJS)

Uses Mocha to run tests

Has a synchronous API

CODE

Console

Tests

WRAP UP

Testing is easy and it rocks software dev

Methodologies that enforce testing: TDD & BDD

Testing in web applications:

- Mocha - <http://visionmedia.github.io/mocha>
- Sinon - <http://sinonjs.org>
- Chai - <http://chaijs.com>
- Barrels - <https://github.com/bredikhin/barrels>
- Supertest - <https://github.com/visionmedia/supertest>
- Testium - <https://github.com/groupon/testium>

WRAP UP

Today's code:

<https://github.com/marionzualo/demo-sails-app-testing>

THANK YOU!