

BDD/TDD

DRIVING DEVELOPMENT THRU TESTING DAVID W. ROBINSON

BDD OVERVIEW

Behavior Driven Development

Application Documentation

- User Oriented
- Horizontal
- Application Centric

BDD JAVASCRIPT TOOLS

CucumberJS

Yadda

TDD OVERVIEW

Test Driven Development

Code Documentation

- Developer Oriented
- Vertical
- Code Centric

TDD JAVASCRIPT TOOLS

Mocha

Buster.js

Jasmine

Karma

QUnit

Sinon

TDD JAVASCRIPT TOOLS

Browser Driver

- Selenium/WebDriverJS
- JsTestDriver (requires Java)

Headless Browser

- PhantomJS
- Zombie

BDD WITH CUCUMBERJS

Cucumber Originated in Ruby Community

Implements Gherkin

Runs on Node

HTML and PDF formatter

https://github.com/cucumber/cucumber-js

BDD GHERKIN EXAMPLE

Feature: Give a presentation

In order to give a presentation

As a presenter

I want to display a slide deck

Scenario: Start slide deck

Given the deck is opened in PowerPoint

When I click Play from Start

Then transition to first slide

TDD MOCHA

Describe...it syntax

Supports synchronous and asynchronous testing

Run in browser or command line

Runs on Node

https://github.com/visionmedia/mocha

TDD ZOMBIE

No browser required

Runs on Node

Client-side JavaScript

http://zombie.labnotes.org

OUR APP

Manage exercise list

Display all exercises

Create exercise

Read exercise

Update exercise

Delete exercise

STACK

Server

- MongoDB assumed to be running on default port
- Node server running on port 8080
 - Server.js file is provided utilizing Express

Client

- jQuery used for AJAX
- Mocha used for testing

MISC

- Until last branch scripts assume cucumber.js is installed globally – local path is npm_modules/.bin/cucumber.js
- URL for tests in browser <u>http://localhost:8080/tests/testExerciseService.html</u>
- URL for app http://localhost:8080