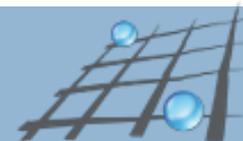




# BDD & TEST AUTOMATION: HOW NOT TO SHOOT YOURSELF IN THE FOOT

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**PROEKSPERT**  
Simplifying Life

# About the speaker

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# What this is about

- Introduction to BDD and related tools
- Retro-fitting automation: should you do it?
- How it worked out for us
- Automated UI testing in web applications
- Hands-on session

# Introduction: BDD

- What is BDD
  - Behavior-Driven Development
  - An "outside-in" methodology, starting from the outside by identifying business outcomes, drilling down into the feature set that will achieve these outcomes.
  - Focuses on the "how" of the software, not the "why"

# Introduction: Cucumber

- Describe how the software should behave in plain text
- The descriptions are the documentation...
- ... and the tests...
- ... and the specification.
- Helps us deliver value, create software that matters

# Cucumber: Example

## Feature: Search courses

In order to ensure better utilization of courses

Potential students should be able to search for courses

## Scenario: Search by topic

**Given** there are 240 courses which do not have the topic "BDD"

**And** there are 2 courses A001, B205 that have the topic "BDD"

**When** I search for "BDD"

**Then** I should see the following courses:

Course code
A001
B205

# What happened in our case?

- Retro-fitting automation to mature codebase
  - Should you do it?
  - When does it work?
- Use Cucumber as the testing tool
  - Is it good enough?
  - Downside: maintenance hell is easy to achieve
- What are the alternatives?
  - Continue with manual testing? Not good enough!
  - Use another tool?

# UI automation in web apps

- What's good
  - ▣ Tests run in a web browser – headless or not
  - ▣ Allows to emulate user behavior
  - ▣ Can be part of a CI process
- Downsides
  - ▣ Performance can suffer, especially in an actual browser
  - ▣ Initial test writing can be time-consuming

# Hands-on session

# Setup

- Application under test
  - <http://bdd-workshop-ntd2013.herokuapp.com>
- Prepared test template
  - <http://git.io/6wD9Jw>
- Required toolset
  - Ruby 1.9+
  - RSpec, Capybara, Selenium-Webdriver
  - Template code from above git repository

Questions?

Thank you!