

SARAH ROSE BATTLES

GIRL DEVELOP IT, MINNEAPOLIS

AUGUST 3, 2017

INTRO TO SPECFLOW

BACKGROUND

- ▶ Junior Dev/Contractor
- ▶ Team recently started requiring unit testing on all new development
- ▶ .Net / Visual Studio
- ▶ Specflow = .Net automated testing framework



LEVELS OF TESTING

- ▶ Unit testing: checks smallest testable part (unit) of software
- ▶ Integration testing: checks how units perform as a group
- ▶ System testing: complete, integrated testing of entire software
- ▶ Acceptance testing: check whether software actually meets business requirements



GIVEN I HAVE A CUCUMBER

- ▶ SpecFlow describes itself as tool for automated acceptance testing
- ▶ Open Source
- ▶ Uses a language called Gherkin, part of the Cucumber ecosystem
- ▶ Given/When/Then



TIMELINE CALCULATOR

- ▶ Project we're looking at is a timeline calculator
- ▶ Use cases - buying a house, planning a conference, planning a wedding
- ▶ Thanks to Jeff Garoutte for sharing! <http://www.jeffgaroutte.net/>



GENERAL SET-UP

- ▶ Visual Studio (Professional version has MSTest installed, Community does not)
- ▶ Separate test (aka specification) project in same solution as project to be tested
- ▶ Install SpecFlow via NuGet package manager (or command line)
- ▶ Not used in this example, but you may also find Moq useful



Generate Step Definition Skeleton - SpecFlow

The following steps have no matching step definition yet. Select the steps you want to generate a step definition skeleton for.

all

none

- ☒ [When] "When I navigate to Metric Conversions." in scenario "Successfully Convert Kilowat
- ☒ [When] "And navigate to Energy and power section" in scenario "Successfully Convert Kilow
- ☒ [When] "And navigate to Kilowatt-hours" in scenario "Successfully Convert Kilowatt-hours to
- ☒ [When] "And choose conversions to Newton-meters" in scenario "Successfully Convert Kilo
- ☒ [When] "And type 30 kWh" in scenario "Successfully Convert Kilowatt-hours to Newton-met
- ☒ [Then] "Then assert that 1.080000e+8 Nm are displayed as answer" in scenario "Successfu

Class name: ConvertMetricsForNuclearScienceSteps

Style: Regular expressions in attributes

Preview

[learn more about step definition styles](#)

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Generate

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