# Cucumber, Pairwise, and JMeter assignment

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Date: 12/05 2018

Course: Test

## Cucumber

I learned from Cucumber how you with the Gherkin "language" can specify a user story and execute it through your code. Gherkin is a simple set of grammar rules in plain text, which Cucumber understands. This makes it easy to understand from a customer and developer perspective. Instead of writing the user stories and then go and write the code, you can write everything in one. You specify a feature and under that feature you can specify scenarios. This is breaking a feature into smaller pieces (to make it testable).

Cucumber is great. The way of specifying examples – like data-driven testing – makes testing more manageable and traceable. This also helps to specify the boundary values with having to create separate tests.

## Profiling

I learned that, profiling is what you do when your performance testing shows a problem. It helps you identify those parts of your system that contribute the most to the performance problem and shows you where to concentrate your efforts. It could be part of the systems that generate more objects than expected and makes the GC (Garbage-Collector) sweating. This can be useful to improve the performance of your application and help you become a better developer by starting to recognize patterns of when you introduce to many objects without needing them. Performance is not a big issue today, but we are taking it for granted. Lots of money can be saved by having a stable, robust, and a low-consumer application. This is where a profiler tool is helpful and is something all developers should be aware of.

I do want to state that, I couldn't get JMeter to work on the application from Cucumber. It wouldn't run any testing. I added them to the Cucumber lib/junit folder, but it was not able to find the tests. I'm not sure whether the cases should be annoted with @Test. The tutorials about Cucumber doesn't mention you should do that.