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Preparation Guide for the Coding Exercises

Automation with SpecFlow Tutorial

Machine Prerequisites

- Approximately 500MB free space is necessary in total (including size of dependencies).
- *.NET Core 3.1* (runtime and SDK, automatically installed with Visual Studio 2019, can be installed manually from https://dotnet.microsoft.com/en-us/download/dotnet/3.1)
- *Visual Studio 2022 or Visual Studio 2019* (Community, Professional or Enterprise edition with "ASP.NET and web development" workload installed)
- If you have *Visual Studio 2022:*
  - *SpecFlow for Visual Studio 2022* Visual Studio extension (installed from Visual Studio *Extensions and Updates*).
- If you have *Visual Studio 2019:*
  - *Deveroom for SpecFlow* Visual Studio extension (installed from Visual Studio *Extensions and Updates*, see instructions at https://github.com/specsolutions/deveroom-visualstudio/wiki/Installation). If you have the *SpecFlow for Visual Studio 2019* extension installed, we recommend disabling it (for the time of the course at least) and install the Deveroom extension that works more predictable with the exercise code base.

Preparation Steps

- Clone the coding exercises from GitHub (https://github.com/specsolutions/20230605-BddWithSpecFlow) or download it as zip and unzip it. **Avoid using shared drives!** We recommend using a folder with a shorter path to avoid reaching the maximum folder path limit of Windows.
- ***Now we are going to test your setup.*** For that we will use the B1 exercise as an example. Please perform the following steps carefully. **If you find any problems, please inform us immediately at gaspar@specsolutions.eu**, so that we can fix the problems in time.
- *Restore packages:* Restore packages for the B1 exercise (this will ensure that all packages that are used by the exercises are downloaded to the machine)
  - On a command line shell, go to the `B1` folder in the extracted folder.
  - Invoke: `dotnet restore`
- *Test compilation and test execution:* Run tests of B1 exercise: there should be one passing test.
  - On a command line shell, go to the `B1` folder in the extracted folder.
  - Invoke: `dotnet build`
  - Invoke: `dotnet test`

  - Both commands should complete without errors (warnings are ok), the `dotnet test` should report "Total tests: 1. Passed: 1. Failed: 0. Skipped: 0."

- *Test Visual Studio setup:* Open `B1` exercise in Visual Studio and run the demo app and the tests.
  - Open `B1-BddWithSpecFlow.GeekPizza.sln` from the `B1` folder with Visual Studio.
  - Open `Features\Home.feature` from the Solution Explorer. You should see a feature file with syntax coloring. If not: extension is not installed properly, check prerequisites above.
  - If you use ***Visual Studio 2022***, continue with the next steps:
  - Build solution (*F6*). Make sure it builds successfully.
  - Open the Test Explorer window (*Test / Windows / Test Explorer*). After a few seconds, you should see one test in the Test Explorer window.
  - Run the sample application. The best is to run it without debugging: *Ctrl+F5*! You should see a pizza website, with some pizzas on the menu.
  - Run the tests: Click on "*Run All*" link in the header of the *Test Explorer* window. You should see one passing test.

CONGRATULATIONS, YOU ARE READY TO GO!