

# 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 6.0** (runtime and SDK, automatically installed with Visual Studio 2022, can be installed manually from <https://dotnet.microsoft.com/en-us/download/dotnet/6.0>)
- **Visual Studio 2022** (Community, Professional or Enterprise edition with “ASP.NET and web development” workload installed) or **Visual Studio Code**
- 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 Code**:
  - **Cucumber** extension ([marketplace](#)) or **Cucumber (Gherkin) Full Support** extension ([marketplace](#))
  - **C#** extension ([marketplace](#))
  - Recommended: **Visual Studio Keymap** extension ([marketplace](#))

## 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](mailto: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!**