Expeditors Backend Academy Labs

Introduction

This document contains the labs for the Expeditors Backend Academy.

The instructions are split up into **Classwork** and **Homework**. The Classwork we will do in class together. You should do the Homework in the **Homework** module. Create a new package for each week's homework if it makes sense. I will go through an example before we start.

Week 7

Classwork

1. Convert the StudentService to a Spring Boot Application

Homework

Objectives

1. Become familiar with the structure of a Spring Boot application.
2. Learn how to test a Spring Boot application.

Tasks

3. Convert your Spring Application to a Spring Boot Application. The main objective of this exercise is to become familiar with the structure of a Spring Boot application.
   a. Create a new Spring Boot Application from **start.spring.io.**
   b. To begin with, you are going to create a command line application, so you don't need to add any dependencies.
   c. Open it up in the IDE. You can do this either as a new project, or as a new "module from existing sources" in the project you are currently working in.
   d. Now you can either
      1. copy your code base from your current application to the new Spring Boot application, or
      2. copy the maven *pom.xml* file from the new Spring Boot application to your current application.
   e. I would suggest using the first approach.

f. Either way, at this point you should have your code with a Spring Boot pom.xml file.
g. Now you need to make your existing code work as a Spring Boot Application.
h. To run the code you had in your old Application class, create a Bean that implements the *CommandLineRunner* interface.
    1. Inject a AdoptionService into this class.
    2. In the *run* method, write code to invoke functionality in your AdoptionService class, e.g. insert an Adopter or two, get all Adopters and print them out, etc.
i. You also need to convert your JUnit tests to work with Spring Boot.
    1. @SpringBootTest is your friend at this point.