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 8

Classwork

1. Create a REST API for the StudentService.

Homework

Objectives

1. Create a REST front end for a Spring Boot Application.
2. Learn how to test a Controller at various levels of granularity

Tasks

1. Finish what we started in class
2. Create Controllers for you application. At the very least they should allow for GET, POST, PUT, DELETE functionality.
   a. Make sure you return appropriate Http Response codes
      1. e.g. 201 for new resource creation, etc.
   b. Handle error conditions and exceptions properly
   c. Handle validation errors.
3. Write Unit tests for your controllers.
   a. Unit tests with Mockito
   b. Mock tests with MockMvc
   c. True Integration tests with RestClient