CO2103 HW1: Spring Boot App

This homework is worth 100 marks and it counts 15% towards your final module marks (30% of SEM1). This assignment can be attempted individually or in pairs.

Any form of collusion or plagiarism will be handled following senate regulations:

https://www2.le.ac.uk/offices/sas2/assessments/plagiarism/penalties

Detailed marking information will be shown on the generated task description (see below).

Marking will be done anonymously with the help of automated scripts. If you have any questions, please contact your module convenor Dr José Miguel Rojas by email or on MS Teams.

Preparation

Import the project contained in file `hw1.zip` (available on Blackboard) into your workspace:

- Select `File > Import... > Existing Projects into Workspace`

- Select the archive file and import the contained project.

<mark>Important</mark>: Enter your university username in file `src/main/resources/application.properties` as in the example below (replace `jmrs3` with your actual username):

`username=jmrs3`

Make sure that this is the only line in the file and that there is no trailing space after your username.

Run the gradle task `generateTasks` or manually execute the Java class `co2103.hw1.GenerateTasks`, which generates your individual task description:

- Right click on `GenerateTasks.java` and select `Run As > Java Application`

- Right click on the project and select `Refresh` (file `tasks.html` appears in the project's root)

- Right click on `tasks.html` and select `Open With > System Editor`

Check that `tasks.html` states your username and lists Tasks 1-6 that in total add up to 100 marks.

Tasks

Work through Task 1-6 of your personalised assignment worksheet.

Some JUnit tests are included in the project to give you guidance on whether you are on the right track in completing these tasks. In order to execute these tests at any point while working on the worksheet, you can either right-click on your project and then choose Run As -> JUnit Test or execute the Gradle task test (find it in the verification category of the list of Gradle tasks).

Note: these tests only cover part of tasks 1-3 (not for tasks 4-6)!

Pair Programming

You are encouraged to work in pairs for this assignment. If you wish to update your pair, you can submit another form response.

You may use either of your usernames when generating your tasks, but the student generating the tasks must also be the student submitting the solution on Blackboard.

If you do not wish to work in pairs, you are also welcome to work and submit individually.

Submission

Package your project from inside STS:

- Right click on the project and select `Refresh` (to avoid warnings in next steps)

- Right click on the project and select `Export ... > Archive File`

- Make sure project `hw1` is selected on the top left

- Deselect the subfolders `.gradle` and `build` (if it exists – as usual and done for all lab submissions)

- Choose the name of the archive file to be `hw1.zip` (in a folder you like) and click `Finish`

Upload your exported zip file to Blackboard `Assessment and Feedback > HW1: Spring MVC App`. You may try it as many times as you like before the deadline.

Finally, download your submission from Blackboard, go to STS with a fresh workspace, import your project, and check that everything works.

- If your project is not exported as required, you receive 0 marks.

- If your code does not compile, you receive 0 marks.

- If you do not follow the required names of classes, fields, JSPs, etc. as they are stated in the list of tasks, you will receive 0 marks.

- You are allowed to add new methods if you need to, but do not change any required behaviour and do not add any unrequired validation that could make some test cases fail by rejecting some inputs.