Creating a project in IntelliJ

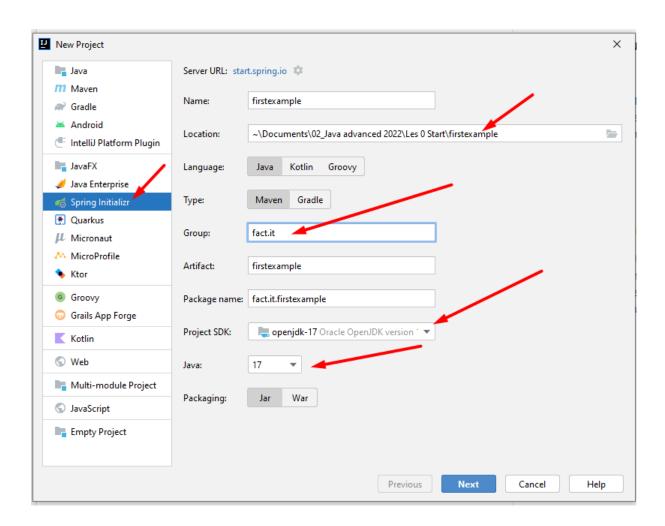
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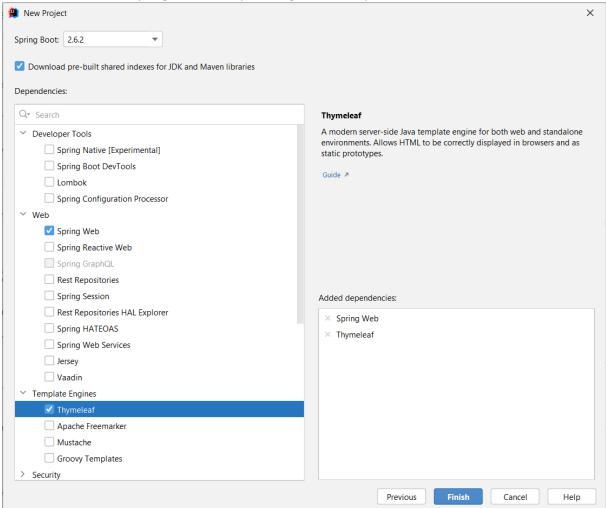
A. Web application with Thymeleaf

- 1) File > New > Project...
- 2) Choose Spring Initializr and choose a name for your project (e.g. *firstexample*)

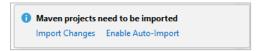
 Choose the location where you want your project to be saved. Note that if you choose a new Location (by browsing) you have to repeat the name of your project at the Location (at the end). For "Group" always fill in *fact.it*. Make sure you mark the *Project SDK* 17 (and Java 17).



3) Choose Web and Spring Web + Template Engines and Thymeleaf



- 4) Click Finish
- 5) You may get this window. Then click *Enable Auto-Import*.



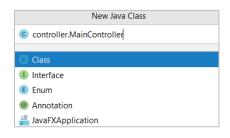
Create template for Thymeleaf

You probably already have this from last academic year 1ITF Java. But if you don't have it (yet), do the following:

- 1) From the menu, select File > Settings > Editor > File and Code Templates.
- 2) Click on and + enter 'Thymeleaf HTML file' , as extension 'html' and enter the following code

Structure of MVC

- 1) Controller
- In the project overview, go to src > main > java > fact.it.yourproject
- Right-click and choose New > Java Class
- Name that class controller.MainController and press Enter

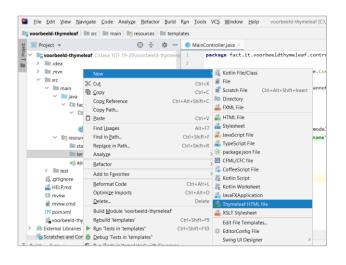


 Add the annotation @Controller at the top of MainController: @Controller and make the mappings

```
package fact.it.vbthymeleaf.controller;
import org.springframework.stereotype. Controller;
Import org.springframework.ui.Model;
Import org.springframework.web.bind.annotation. RequestMapping;

@Controller
public class MainController { @RequestMapping("/") public String studentInfo(Model model){
model.addAttribute("firstname", "Kristine"); return "studentinfo";
}}
```

- 2) Model
- You create the classes in the package *model*, which is located under fact.it.yourproject, as before.
- 3) View layer
- In the Project Overview, go to src > main > resources > templates
- Right click and choose New > Thymeleaf HTML file> choose a name



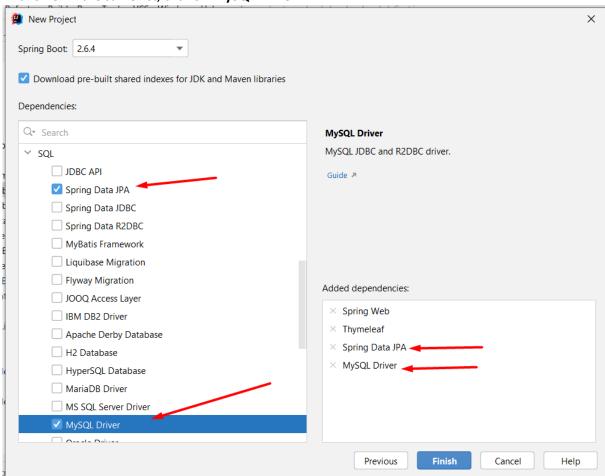


- The Thymeleaf template appears. Complete.
- Click on run
- Go to browser and enter "http://localhost:8080" as URL.

B. Web application with Thymeleaf and JPA (from lesson 3!)

Follow steps 1 to 6 of A. Creating a web application with Thymeleaf (A).

- 7. Then click on SQL in the left column and in the middle column choose **Spring Data JPA**
- 8. And lower in the same list, click on MySQL Driver.



- 9. Finally, click next and finish...
- 10. Put the following code in your application.properties file

```
spring.datasource.url=jdbc:mysql://localhost:3306/lesson?serverTimezone=UTC
spring.datasource.username=admin
spring.datasource.password=sql
spring.jpa.hibernate.use-new-id-generator-mappings= false
```

- 11. Add the following code in your application.properties file depending on the situation
 - a. If you want to start from a "clean slate" and delete the existing tables with the content from the start of your application, add the following code

spring.jpa.hibernate.ddl-auto=create-drop

b. However, if you want to continue working on the tables of content already in your database, replace the above code with:

spring.jpa.hibernate.ddl-auto=update

c. If you are running your application with entities for the first time, it is best to leave out this code (because of the ddl car)