



WEB TECHNOLOGIES USING JAVA

Laboratory 4 - 30.10.2020

AGENDA

- Spring Boot Getting started
- Postman for calling endpoints
- Using Thymeleaf in Spring
- Application

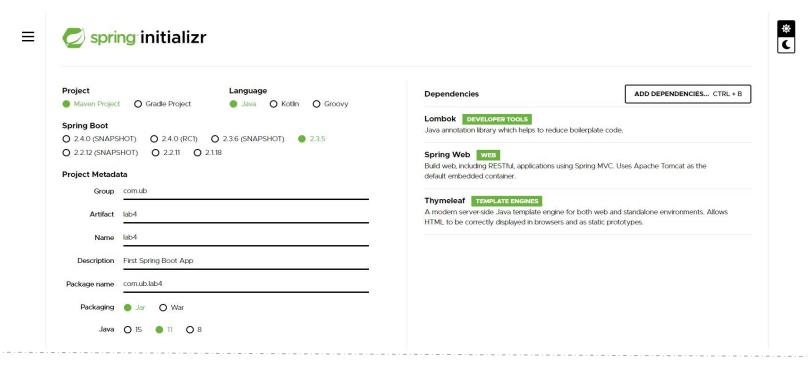


Spring Boot - Getting started (I)

- Simplified dependency management
- Executable JARs for Simplified Deployment
- Autoconfiguration
- How to setup a Spring Boot app:
 - Maven or Gradle project + needed dependencies
 - The Spring Initializr https://start.spring.io



Spring Boot - Getting started (II)





Postman - for calling endpoints

- https://www.postman.com/
 - Define complex requests => quickly send REST requests directly.
 - Inspect Responses.
 - We can see the full list of features here: https://www.postman.com/postman-features/.





Using Thymeleaf in Spring

Spring Boot provides auto-configuration for Thymeleaf by adding the spring-boot-starter-thymeleaf dependency:

```
<dependency>
  <groupId>org.springframework.boot</groupId>
  <artifactId>spring-boot-starter-thymeleaf</artifactId>
  <version>2.3.5.RELEASE</version>
</dependency>
```

- No explicit configuration is necessary. By default, HTML files should be placed in the resources/templates location.
- More info: https://www.baeldung.com/thymeleaf-in-spring-mvc



Application (I)

```
@RestController
public class UserRestController {
  private final UserService userService;
  public UserRestController(UserService userService) {
      this.userService = userService;
  @GetMapping(value = "/user/{id}", produces = MediaType.APPLICATION_JSON_VALUE)
  public User get(@PathVariable("id") Long id) {
      System.out.println(String.format("Request to get user: %s", id));
      return this.userService.get(id);
```



Application (II)

```
@Controller
public class UserController {
   private final UserService userService;
   public UserController(UserService userService) {
       this.userService = userService;
   @PostMapping("/user")
   public String save(@ModelAttribute User user, Model model) {
       System.out.println(String.format("Request to save user: %s", user.getUsername()));
       userService.save(user);
       model.addAttribute("user", User.builder().build());
       return "saveUser";
```

Application (III)



THANK YOU

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