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DAWM07UF2

GENERACIÓ DINÀMICA DE PÀGINES WEB

UF2.4.4 SPRING REST

CFGs Desenvolupament d'Aplicacions Web

M07. Desenvolupament web en entorn servidor

Fundació Jesuïtes Educació - Escola del Clot

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- + Aprendre el funcionament d'Spring REST

- + Aprendre el funcionament d'Spring REST

CREAR UNA APLICACIÓ REST



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The screenshot shows an IDE with a project structure on the left and the source code of `M2SpringRestApplication.java` on the right.

Project Structure (Left Panel):

- src
 - main
 - java
 - edu.fje.daw2
 - m1_spring_mvc
 - controladors
 - AlumneController
 - IndexController
 - model
 - M1SpringMvcApplication
 - m2_spring_rest
 - controladors
 - AlumneRestController
 - IndexRestController
 - model
 - Salutacio
 - resources
 - static
 - afegirAlumne.html
 - esborrarAlumne.html

Source Code (Right Panel):

```
1 package edu.fje.daw2.m2_spring_rest;
2
3 import ...
4
5
6 /**
7  * Classe principal de un projecte de Spring Rest
8  * @author sergi.grau@fje.edu
9  * @version 1.0 4.03.21
10 */
11 @SpringBootApplication
12 public class M2SpringRestApplication {
13
14     public static void main(String[] args) { SpringApplication.run(M2SpringRestApplication.class,
15
16
17
18     }
19 }
```

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The code editor shows the implementation of the `IndexRestController` class:

```
0  import org.springframework.web.bind.annotation.RestController;
1
2  import java.text.MessageFormat;
3
4  /**
5   * Controlador que fa us de REST
6   *
7   * @author sergi.grau@fje.edu
8   * @version 1.0 04.03.21
9   */
10 @RestController
11 public class IndexRestController {
12     @GetMapping("/salutacio")
13     public Salutacio salutar(@RequestParam(required = false, defaultValue = "daw2") String nom){
14         return new Salutacio(MessageFormat.format("hola {0}", nom));
15     }
16 }
```

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The screenshot displays an IDE with a project structure on the left and a code editor on the right. The project structure shows a package hierarchy: `src/main/java/edu.fje.daw2/m1_spring_mvc/controladors`. The `AlumneRestController` class is selected in the package view. The code editor shows the implementation of `AlumneRestController` with the following code:

```
16  @RestController
17  public class AlumneRestController {
18
19      Set<Alumne> alumnes = new HashSet<>();
20
21      @PostMapping("/afegirAlumne")
22      public String afegirAlumne(
23          @RequestParam String nom,
24          @RequestParam(defaultValue = "0", required = false) int nota,
25          Model model) {
26          alumnes.add(new Alumne(nom, nota));
27          model.addAttribute("alumnes", alumnes);
28          return "llistarAlumnes";
29      }
30
31      @DeleteMapping("/esborrarAlumne")
32      public String esborrarAlumne(
33          @RequestParam String nom,
34          @RequestParam(defaultValue = "0", required = false) int nota,
35          Model model) {
36          alumnes.remove(new Alumne(nom, nota));
37          model.addAttribute("alumnes", alumnes);
```

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The screenshot shows an IDE with a project structure on the left and code for `AlumneRestController.java` on the right. The project structure is as follows:

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The code in `AlumneRestController.java` is as follows:

```
35  model model) {  
36      alumnes.remove(new Alumne(nom, nota));  
37      model.addAttribute(attributeName: "alumnes", alumnes);  
38      return "llistarAlumnes";  
39  }  
40  @PutMapping("/modificarAlumne")  
41  @  
42      @RequestParam String nom,  
43      @RequestParam(defaultValue = "0", required = false) int nota,  
44      Model model) {  
45      alumnes.remove(new Alumne(nom, nota));  
46      alumnes.add(new Alumne(nom, nota));  
47      model.addAttribute(attributeName: "alumnes", alumnes);  
48      return "llistarAlumnes";  
49  }  
50  
51  @GetMapping("/llistarAlumnes")  
52  @  
53      public String llistarAlumnes(Model model){  
54          model.addAttribute(attributeName: "alumnes", alumnes);  
55          return "llistarAlumnes";  
56      }
```

- + <https://docs.spring.io/spring-framework/docs/current/reference/html/web.html#spring-web>

