



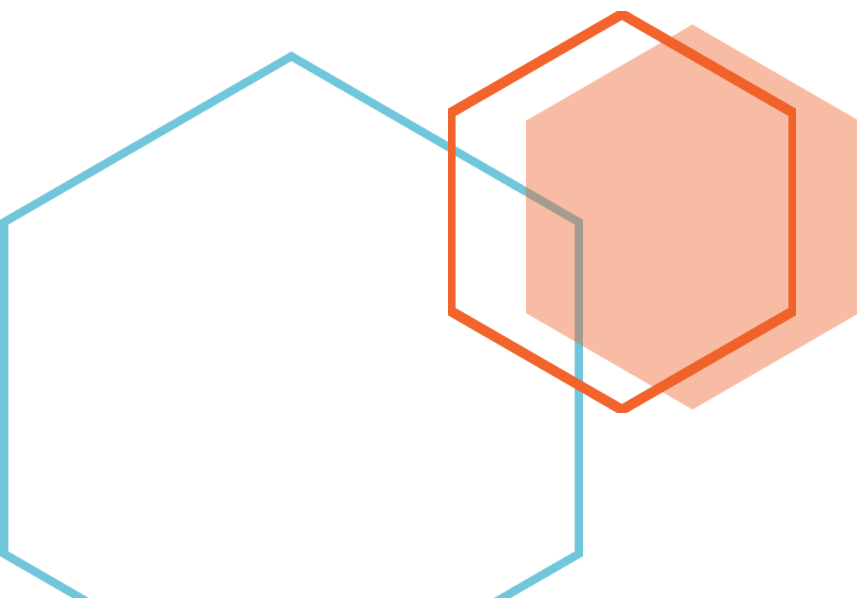
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Classe : II-BDCC2

[Compte Rendu]

Spring Boot Spring MVC Thymeleaf Spring
Data IntelliJ
Part1

Architecture JEE et Middlewares
L'Ecole Normale Supérieure de l'Enseignement
Technique de Mohammedia (ENSET)



Entities

Classe Patient :

```
Patient.java x
1 package ma.enset.patientmvc.Entities;
2 import ...
7 @Entity
8 @Data @AllArgsConstructor @NoArgsConstructor
9 public class Patient {
10     @Id @GeneratedValue(strategy = GenerationType.IDENTITY)
11     private Long id;
12     private String nom;
13     @Temporal(TemporalType.DATE)
14     private Date dateNaissance;
15     private boolean malade;
16     private int score;
17 }
```

Repositories

PatientRepository :

```
PatientRepository.java x
1 package ma.enset.patientmvc.Repositories;
2 import ma.enset.patientmvc.Entities.Patient;
3 import org.springframework.data.domain.Page;
4 import org.springframework.data.domain.Pageable;
5 import org.springframework.data.jpa.repository.JpaRepository;
6
7 public interface PatientRepository extends JpaRepository<Patient, Long> {
8     Page<Patient> findByNomContains(String kw, Pageable pageable);
9 }
```

Application.java

Insérer des enregistrements dans la base de données.

```
PatientMvcApplication.java x
1 package ma.enset.patientmvc;
2 import ...
10
11 @SpringBootApplication
12 public class PatientMvcApplication {
13
14     public static void main(String[] args) { SpringApplication.run(PatientMvcApplication.class, args); }
15
16     @Bean
17     CommandLineRunner commandLineRunner(PatientRepository patientRepository){
18
19         return args -> {
20             patientRepository.save(new Patient( id: null, nom: "Amina",new Date(), malade: false, score: 12));
21             patientRepository.save(new Patient( id: null, nom: "Mohammed",new Date(), malade: false, score: 15));
22             patientRepository.save(new Patient( id: null, nom: "Hanane",new Date(), malade: true, score: 19));
23             patientRepository.save(new Patient( id: null, nom: "Karima",new Date(), malade: false, score: 10));
24             patientRepository.save(new Patient( id: null, nom: "Mounir",new Date(), malade: true, score: 16));
25
26             patientRepository.findAll().forEach(p->{
27                 System.out.println(p.getNom());
28             });
29         };
30     }
31 }
```

Web

PatientController :

Fonction pour retourner les patients.

```
PatientController.java x
1 package ma.enset.patientmvc.Web;
2 import ...
13 @Controller
14 @AllArgsConstructor
15 public class PatientController {
16     private PatientRepository patientRepository;
17     @GetMapping(path = "/index")
18     @RequestMapping
19     public String patients(Model model, //page & size données dans l'URL
20         @RequestParam(name = "page",defaultValue = "0") int page,
21         @RequestParam(name = "size",defaultValue = "5") int size,
22         @RequestParam(name = "keyword",defaultValue = "") String keyword){
23         Page<Patient> pagePatients=patientRepository.findByNomContains(keyword,PageRequest.of(page,size));
24         model.addAttribute( attributeName: "listePatients",pagePatients.getContent());
25         model.addAttribute( attributeName: "pages",new int[pagePatients.getTotalPages()]);
26         model.addAttribute( attributeName: "currentPage",page);
27         model.addAttribute( attributeName: "keyword",keyword);
28         return "patients";//la vue
29     }
30 }
```

Fonction delete pour supprimer un patient par id.

```
@GetMapping("/delete")
public String delete(Long id,String keyword,int page){
    patientRepository.deleteById(id);
    return "redirect:/index?page="+page+"&keyword="+keyword;
}
```

Patients.html (Thymeleaf)

```
1 <!DOCTYPE html>
2 <html lang="en" xmlns="http://www.w3.org/1999/xhtml" xmlns:th="http://www.thymeleaf.org">
3 <head>
4     <meta charset="UTF-8">
5     <title>Patients</title>
6     <link rel="stylesheet" href="/webjars/bootstrap/5.1.3/css/bootstrap.min.css">
7 </head>
```

Form pour la recherche par mot-clé :

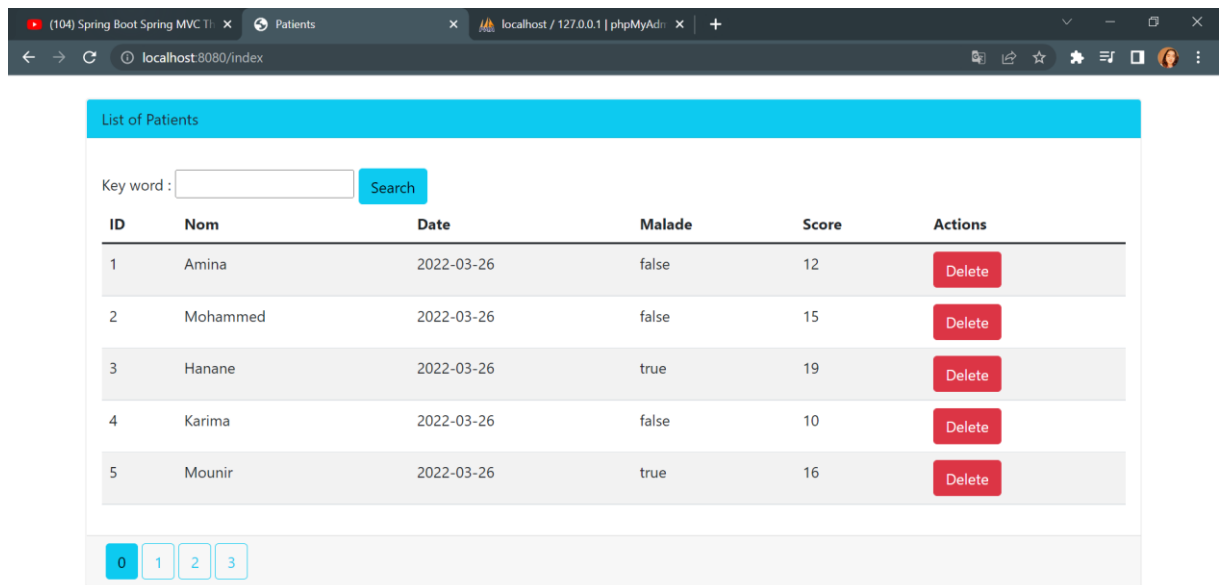
```
8 <body>
9 <div class="container mt-4">
10 <div class="card">
11 <div class="card-header text-dark bg-info mb-3">List of Patients</div>
12 <div class="card-body">
13 <form method="get" th:action="@{index}">
14 <label>Key word : </label>
15 <input type="text" name="keyword" th:value="${keyword}">
16 <button type="submit" class="btn btn-info">Search</button>
17 </form>
18 <table class="table table-striped table-hover">
19 <thead>
20 <tr>
21 <th>ID</th><th>Nom</th><th>Date</th><th>Malade</th>
22 <th>Score</th><th>Actions</th>
23 </tr>
24 </thead>
```

```
<tbody>
<tr th:each="p:${listePatients}">
<td th:text="${p.id}"></td>
<td th:text="${p.nom}"></td>
<td th:text="${p.dateNaissance}"></td>
<td th:text="${p.malade}"></td>
<td th:text="${p.score}"></td>
<td>
<a onclick="return confirm('Êtes vous sûr de supprimer ce patient ?')"
class="btn btn-danger" th:href="@{delete(id=${p.id},keyword=${keyword},page=${currentPage})}">Delete</a>
</td>
</tr>
</tbody>
```

Pagination :

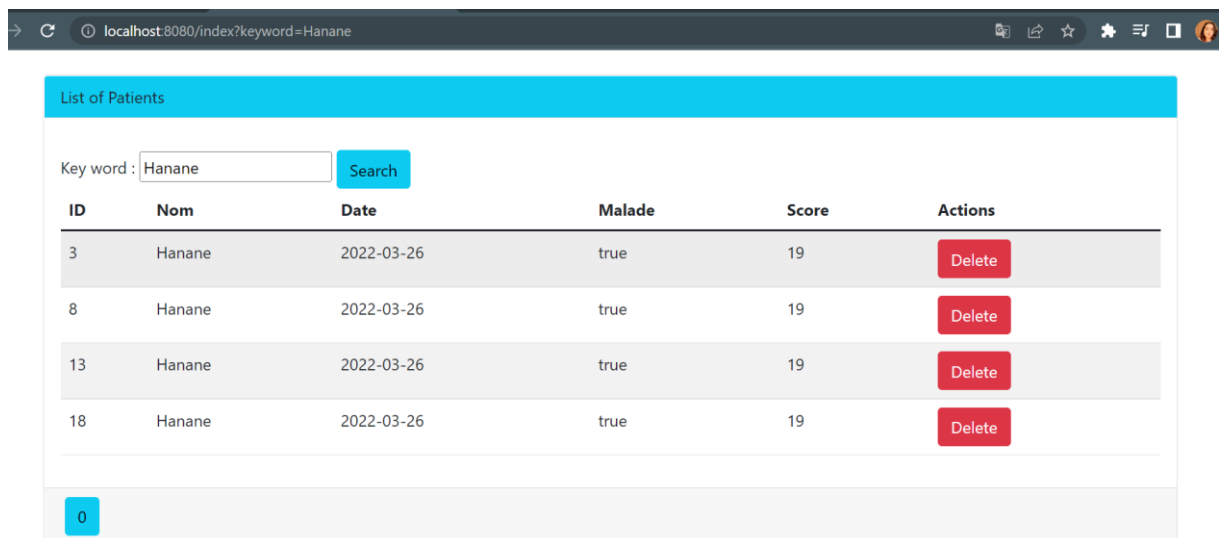
```
<div class="card-footer text-muted">
  <ul class="nav nav-pills">
    <li th:each="page,status:${pages}">
      <a th:class="${status.index==currentPage?'btn btn-info ms-1':'btn btn-outline-info ms-1'}"
        th:text="${status.index}"
        th:href="@{index(page=${status.index},keyword=${keyword})}"></a>
    </li>
  </ul>
</div>
```

La liste des patients :



| ID | Nom | Date | Malade | Score | Actions |
|----|----------|------------|--------|-------|---------|
| 1 | Amina | 2022-03-26 | false | 12 | Delete |
| 2 | Mohammed | 2022-03-26 | false | 15 | Delete |
| 3 | Hanane | 2022-03-26 | true | 19 | Delete |
| 4 | Karima | 2022-03-26 | false | 10 | Delete |
| 5 | Mounir | 2022-03-26 | true | 16 | Delete |

Chercher par mot-clé :



| ID | Nom | Date | Malade | Score | Actions |
|----|--------|------------|--------|-------|---------|
| 3 | Hanane | 2022-03-26 | true | 19 | Delete |
| 8 | Hanane | 2022-03-26 | true | 19 | Delete |
| 13 | Hanane | 2022-03-26 | true | 19 | Delete |
| 18 | Hanane | 2022-03-26 | true | 19 | Delete |

Supprimer par id :

The screenshot shows a web browser at `localhost:8080/index?page=3&keyword=`. The page title is "List of Patients". Below the title is a search bar with the text "Key word : " and a "Search" button. A confirmation dialog is open, asking "Etes vous sure de supprimer ce patient ?" with "OK" and "Annuler" buttons. The dialog also displays the text "localhost:8080 indique". Below the dialog is a table with the following data:

| ID | Nom | Date | Malade | Score | Actions |
|----|----------|------------|--------|-------|---------|
| 16 | Amina | 2022-03-26 | false | 12 | Delete |
| 17 | Mohammed | 2022-03-26 | false | 15 | Delete |
| 18 | Hanane | 2022-03-26 | true | 19 | Delete |
| 19 | Karima | 2022-03-26 | false | 10 | Delete |

At the bottom of the page, there are four buttons labeled 0, 1, 2, and 3, with button 3 being the active one.