المدرسة العليا للأساتذة التعليم التقنية المحمدية

جامعة الحسن الثاني. الدار البيضاء

Ecole Normale Supérieure de l'Enseignement Technique Mohammedia

Université Hassan II de Casablanca

ENSET

DÉPARTEMENT MATHÉMATIQUES ET INFORMATIQUE

Activity Spring MVC

Filière :
« Génie du Logiciel et des Systèmes Informatiques Distribués »
GLSID

Patient MVC

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Entities :

```
▼ ⊞ com.example.demo.entities
   ▸ J Patient.java
```

Patient :

```java
1  package com.example.demo.entities;
2
3⊕ import java.util.Date;
17
18 @Entity
19 @Data
20 @AllArgsConstructor
21 @NoArgsConstructor
22 public class Patient {
23
24⊖     @Id @GeneratedValue(strategy = GenerationType.IDENTITY)
25     private Long id;
26
27     private String nom;
28
29⊖     @Temporal(TemporalType.DATE)
30     @DateTimeFormat(pattern = "yyyy-MM-dd")
31     private Date dateNaissance;
32
33     private boolean malade;
34
35     private int score;
36
37 }
```

Repositories :

```
▼ ⊞ com.example.demo.repositories
   ▸ J PatientRepository.java
```

Patient repository :

```java
1  package com.example.demo.repositories;
2
3
4
5⊕ import org.springframework.data.domain.Page;
10
11 public interface PatientRepository extends JpaRepository<Patient, Long> {
12
13     Page<Patient> findByNomContains(String keyword,Pageable pageable);
14 }
15
```

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Insertion des donnees :

```java
package com.example.demo;

import java.util.Date;

@SpringBootApplication
public class PatientMvcApplication {

    public static void main(String[] args) {
        SpringApplication.run(PatientMvcApplication.class, args);
        Patient p=new Patient(null,"ali",null,false,80);
        System.out.println("hiii");
        System.out.println(p.getNom());
        System.out.println("test");
    }

    @Bean
    public CommandLineRunner cmdRunner(PatientRepository patientRep) {
        return args -> {
            patientRep.save(new Patient(null,"ali",new Date(),false,80));
            patientRep.save(new Patient(null,"ahmed",new Date(),true,70));
            patientRep.save(new Patient(null,"khalid",new Date(),false,85));
            patientRep.save(new Patient(null,"samir",new Date(),false,75));

            patientRep.findAll().forEach(p->{
                System.out.println(p.getNom());
```

Rest contoller :

```java
package com.example.demo.web;

import javax.validation.Valid;

@Controller
@AllArgsConstructor
public class PatientController {
    private PatientRepository patientRep;

    @GetMapping( "/")
    public String home(){
        return "home";
    }

    @GetMapping(path="/patients")
    public String patients(Model model,
                           @RequestParam(name = "page",defaultValue = "0") int page,
                           @RequestParam(name = "size",defaultValue = "5") int size,
                           @RequestParam(name = "keyword",defaultValue = "") String keyword) {
        Page<Patient> patientsPage=patientRep.findByNomContains(keyword,PageRequest.of(page, size));
        model.addAttribute("listPatients",patientsPage.getContent());
        model.addAttribute("pages",new int[patientsPage.getTotalPages()]);
        model.addAttribute("currentPage",page);
        model.addAttribute("keyword",keyword);
```

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```java
@GetMapping(path="/formPatient")
public String formPatient(Model model) {

    model.addAttribute("patient",new Patient());

    return "formPatient";
}

@PostMapping(path="/save")
public String save(Model model,@Valid Patient patient, BindingResult bindingResult,@RequestParam(default

    if(bindingResult.hasErrors()) {
        return "formPatient";
    }
    patientRep.save(patient);

    return "redirect:/patients?page="+page+"&keyword="+keyword;
}

@GetMapping(path="/editPatient")
public String editPatient(Model model,Long id,int page,String keyword) {
    Patient patient=patientRep.findById(id).orElse(null);
    if(patient==null) {
    throw new RuntimeException("patient n'existe pas");
```

```java
@GetMapping(path="/editPatient")
public String editPatient(Model model,Long id,int page,String keyword) {
    Patient patient=patientRep.findById(id).orElse(null);
    if(patient==null) {
    throw new RuntimeException("patient n'existe pas");
    }
    model.addAttribute("patient",patient);
    model.addAttribute("page",page);
    model.addAttribute("keyword",keyword);

    return "editPatient";
}

@GetMapping(path="/delete")
public String deletePatient(Model model,@RequestParam(name = "id",defaultValue = "0") Long id,
                    @RequestParam(name = "page",defaultValue = "0") int page,
                    @RequestParam(name = "keyword",defaultValue = "")String keyword) {
    patientRep.deleteById(id);
    return "redirect:/patients?page="+page+"&keyword="+keyword;
}
```

Thymeleaf :

Home page :

```html
home.html ×
1  <!DOCTYPE html>
2  <html lang="en" xmlns:th="http://www.thymeleaf.org"
3         xmlns:layout="http://www.ultraq.net.nz/thymeleaf/layout"
4         xmlns:sec="http://www.thymeleaf.org/extras/spring-security"
5         layout:decorate="template" >
6  <head>
7      <meta charset="UTF-8">
8      <title>Title</title>
9  </head>
10 <body>
11 <div layout:fragment="content1">
12 </div>
13 </body>
14 </html>
```

403 page :

```html
1  <!DOCTYPE html>
2  <html lang="en" xmlns:th="http://www.thymeleaf.org"
3         xmlns:layout="http://www.ultraq.net.nz/thymeleaf/layout"
4         xmlns:sec="http://www.thymeleaf.org/extras/spring-security"
5         layout:decorate="template" >
6  <head>
7      <meta charset="UTF-8">
8      <title>Title</title>
9      <link rel="stylesheet" href="webjars/bootstrap/5.1.3/css/bootstrap.min.css">
10 </head>
11 <body>
12 <div layout:fragment="content1">
13 <div class="container">
14     <h2 class="text-danger">you dont have the right to access this page</h2>
15
16 </div>
17 </div>
18
19 </body>
20 </html>
```
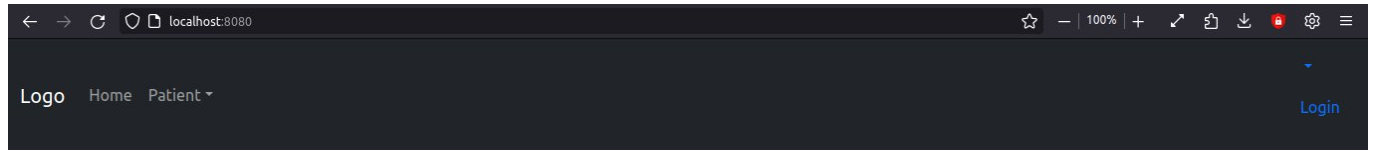
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Template :

```html
      xmlns:sec="http://www.thymeleaf.org/extras/spring-security">
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
<link rel="stylesheet" type="text/css" href="/webjars/bootstrap/5.1.3/css/bootstrap.min.css">
<script src="/webjars/bootstrap/5.1.3/js/bootstrap.bundle.js"></script>
</head>
<body>
  <nav class="navbar navbar-expand-sm navbar-dark bg-dark">
   <div class="container-fluid">
     <a class="navbar-brand" href="javascript:void(0)">Logo</a>
     <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#mynavbar">
       <span class="navbar-toggler-icon"></span>
     </button>
     <div class="collapse navbar-collapse" id="mynavbar">
       <ul class="navbar-nav me-auto">
         <li class="nav-item">
           <a class="nav-link" th:href="@{/}">Home</a>
         </li>
         <li class="nav-item dropdown">
          <a class="nav-link dropdown-toggle" href="#" role="button" data-bs-toggle="dropdown">Patient</a>
          <ul class="dropdown-menu">
            <li><a class="nav-link" style="color: ■ black" th:href="@{/formPatient}">Nouveau</a></li>
            <li><a class="nav-link" style="color: ■ black" th:href="@{/patients}">chercher</a></li>
          </ul>
         </li>
       </ul>

       <ul>
       <li class="nav-item dropdown" sec:authorize="isAuthenticated()">
         <a class="nav-link dropdown-toggle" href="#" role="button" data-bs-toggle="dropdown"><span sec:aut
         <ul class="dropdown-menu">
           <li><a class="nav-link" style="color: ■ black" th:href="@{/logout}">Logout</a></li>
```

Patient page :

```html
<body>
<div layout:fragment="content1">
<div class="container">
    <div class="card mt-4">
        <div class="card-header">
        liste des patients
        </div>
        <div class="card-body">
        <form th:action="@{/patients}" action="" method="get">
            <label>key word</label>
            <input type="text" name="keyword" th:value="${keyword}">
            <button type="submit" class="btn btn-primary">chercher</button>
        </form>
        <table class="table">
        <thead>
            <tr>
                <th>ID</th><th>Nom</th><th>Date</th><th>Malade</th><th>score</th>
            </tr>
        </thead>
        <tbody>
          <tr th:each="p:${listPatients}">
            <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:test="${p.score}"></td>
            <td><a onclick="return confirm('delete patient?')" class="btn btn-danger" th:href="@{/delete
            <td><a  class="btn btn-primary" th:href="@{/editPatient(id=${p.id},page=${currentPage},keywo
          </tr>
        </tbody>
        </table>
        <ul class="nav nav-pills">
            <li th:each="page,status:${pages}">
```

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Form patient page :

```html
</head>
<body>
<div layout:fragment="content1">
<div class="container">
<form th:action="@{/save}" method="post">

    <div>
        <label>Nom</label>
        <input class="form-control" type="text" name="nom" th:value="${patient.nom}">
        <span th:errors="${patient.nom}"></span>
    </div>
    <div>
        <label>Date Naissance</label>
        <input class="form-control" type="date" name="dateNaissance" th:value="${patient.dateNaissance}">
        <span th:errors="${patient.dateNaissance}"></span>
    </div>
    <div>
        <label>Malade</label>
        <input type="checkbox" name="malade" th:checked="${patient.malade}">
        <span th:errors="${patient.malade}"></span>
    </div>
    <div>
        <label>Score</label>
        <input class="form-control" type="text" name="score" th:value="${patient.score}">
        <span th:errors="${patient.score}"></span>
    </div>
    <button type="submit" class="btn btn-primary">Save</button>
</form>

</div>
```

Edit patient page :

```html
<body>
<div layout:fragment="content1">
<div class="container">
<form th:action="@{/save(page=${page},keyword=${keyword})}" method="post">
    <div>
        <label>ID</label>
        <label th:text="${patient.id}"></label>
        <input class="form-control" type="hidden" name="id" th:value="${patient.id}">
    </div>
    <div>
        <label>Nom</label>
        <input class="form-control" type="text" name="nom" th:value="${patient.nom}">
        <span th:errors="${patient.nom}"></span>
    </div>
    <div>
        <label>Date Naissance</label>
        <input class="form-control" type="date" name="dateNaissance" th:value="${patient.dateNaissance}">
        <span th:errors="${patient.dateNaissance}"></span>
    </div>
    <div>
        <label>Malade</label>
        <input type="checkbox" name="malade" th:checked="${patient.malade}">
        <span th:errors="${patient.malade}"></span>
    </div>
    <div>
        <label>Score</label>
        <input class="form-control" type="text" name="score" th:value="${patient.score}">
        <span th:errors="${patient.score}"></span>
    </div>
    <button type="submit" class="btn btn-primary">Save</button>
</form>
```
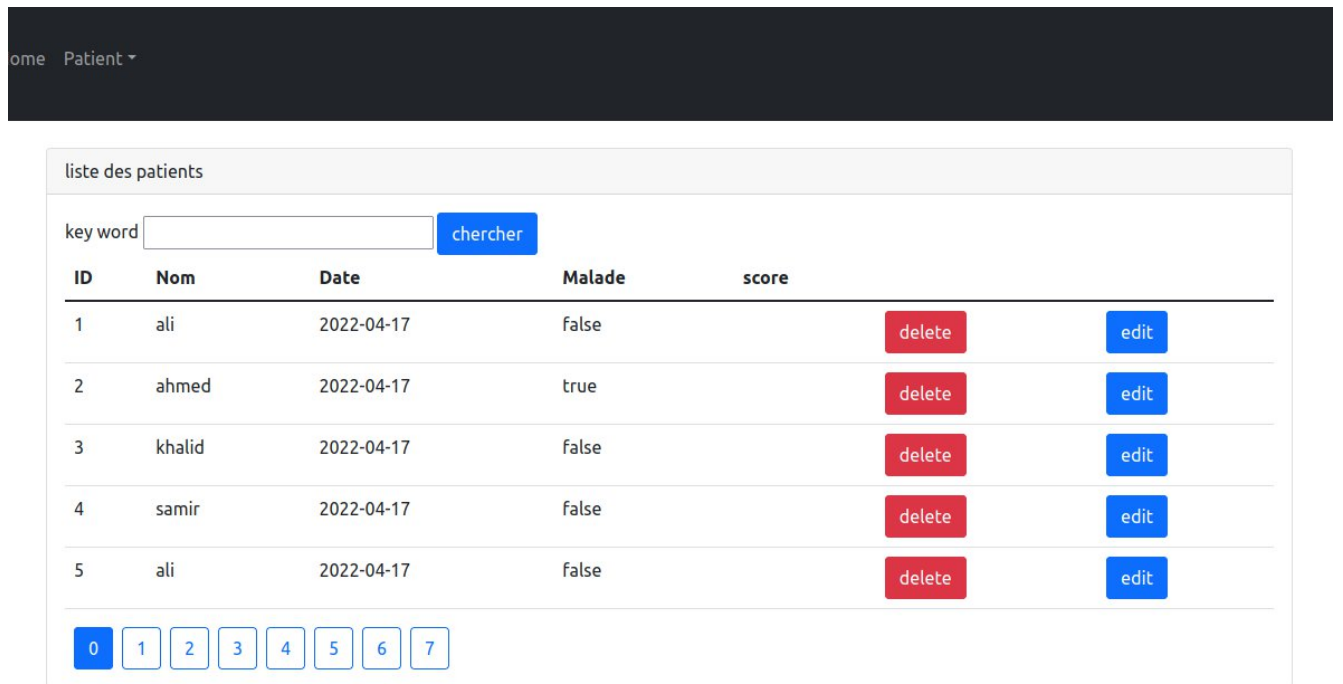
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GUI :

Patients :

Ajouter un patient :