

Activité Pratique ///



27/04

emsi

Créé par : Yousra Chafik Idrissi



Spring MVC

Thymeleaf

Spring Data

ÉNONCÉ

Partie 1 :

1. Afficher les Patients
2. Faire la Pagination
3. Chercher les Patients
4. Supprimer un Patient

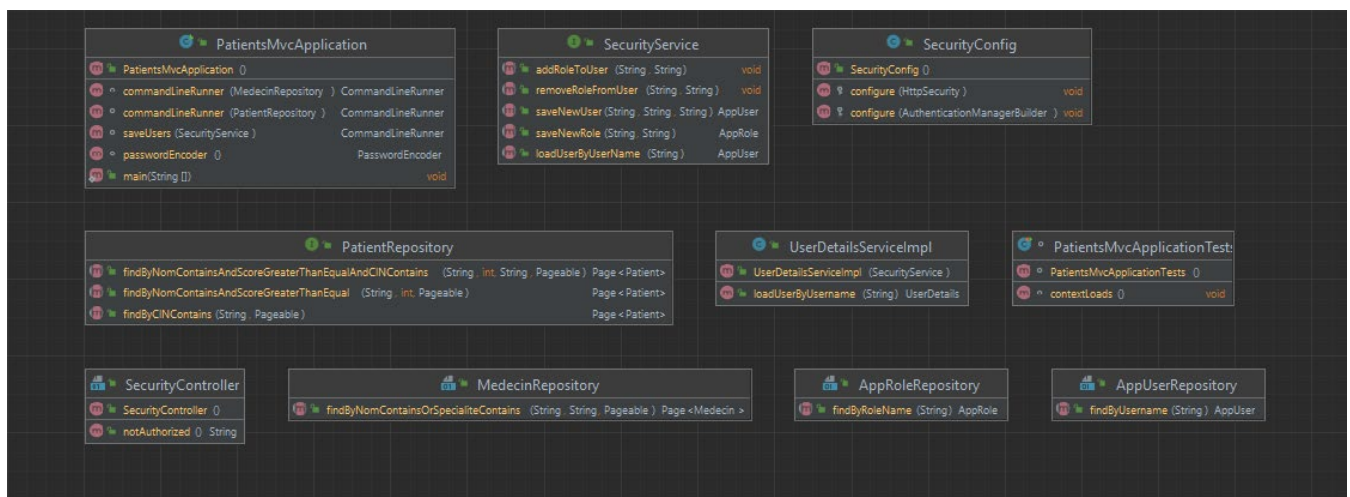
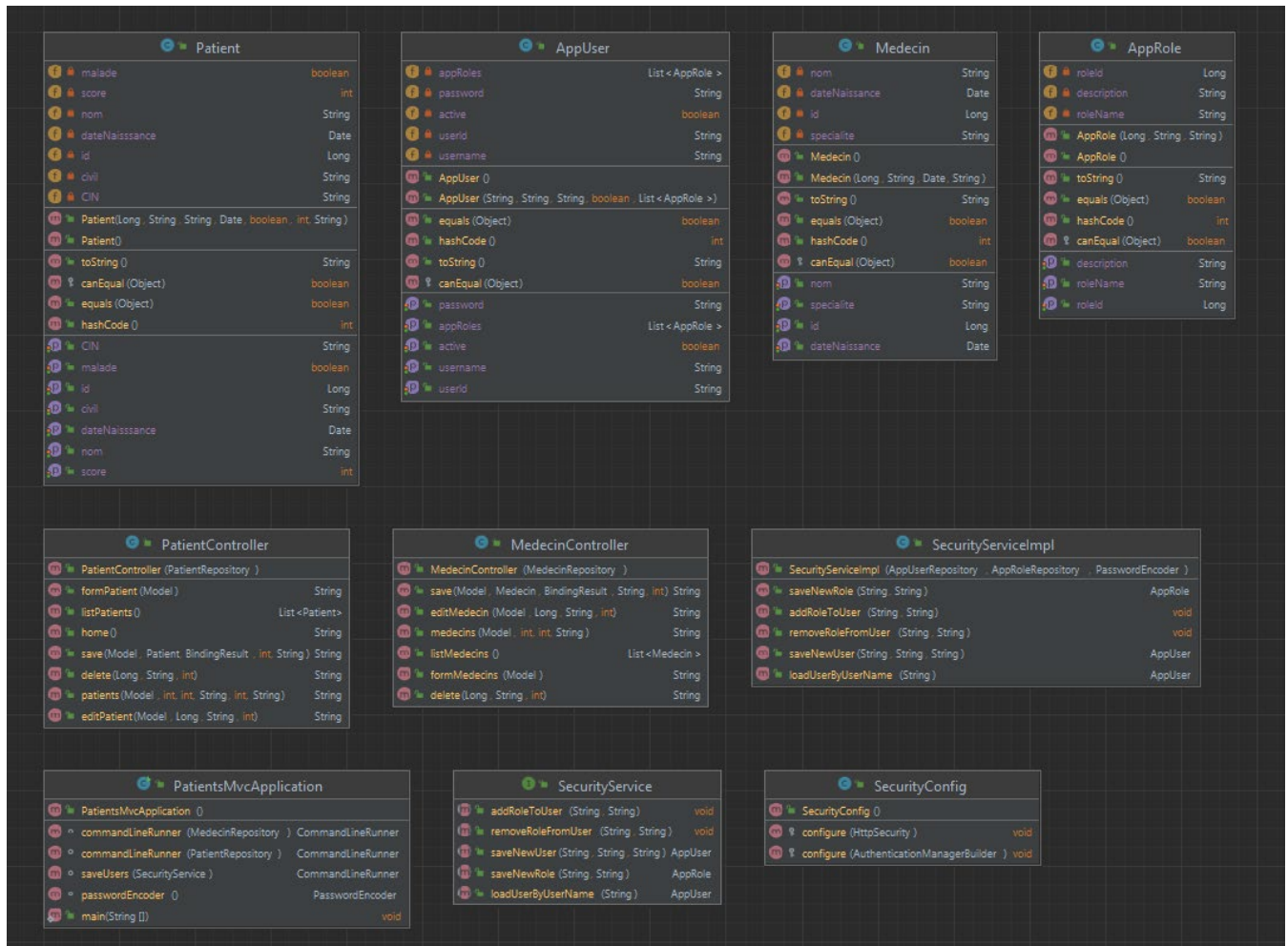
Partie 2 :

1. Créer une page Template basée sur Thymeleaf Layout
2. Saisir et Ajouter des Patients
3. Faire la Validation du Formulaire
4. Editer et Mettre à jour un Patient

Partie 3 & 4:

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1. Ajouter la dépendance Maven de Spring Security
 2. Personnaliser la configuration de Spring Security
 3. Basculer de la stratégie authentication
 4. Basculer vers la stratégie UserDetailsService

Architecture :



Lien Repo GitHub :

[yousracel/JEE-AP3-MVC \(github.com\)](https://github.com/yousracel/JEE-AP3-MVC)

Captures d'écran :

PARTIE1 :

-Afficher les Patients

ID	NOM	Civilité	DATE NAISSANCE	MALADE	SCORE	N° Carte d'identité		
8	othy	Mr	2022-04-20	false	70	HU48775	Delete	Edit
9	yousra	Mlle	2022-04-20	true	144	GR12054	Delete	Edit
10	sabah	Mme	2022-04-20	true	12	OK27517	Delete	Edit
11	aliaa	Mme	2022-04-20	true	50	TQ58154	Delete	Edit
12	othmane	Mr	2022-04-20	false	70	DS53710	Delete	Edit

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-Faire la Pagination

```

@GetMapping(path = "/user/index")
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,
    @RequestParam(name="keyword2",defaultValue = "0") int keyword2,
    @RequestParam(name="cin",defaultValue = "") String cin){
    Page<Patient> pagePatients=patientRepository.findByNomContainsAndScoreGreaterThanOrEqual(keyword,keyword2,PageRequest.of(page,size));
    if(!cin.equals(""))
        pagePatients=patientRepository.findByNomContainsAndScoreGreaterThanOrEqualAndCINContains(keyword,keyword2,cin,PageRequest.of(page,size));
    model.addAttribute( attributeName: "listPatients", pagePatients.getContent());

    model.addAttribute( attributeName: "pages",new int[pagePatients.getTotalPages()]);
    model.addAttribute( attributeName: "currentPage",page);}
    model.addAttribute( attributeName: "keyword",keyword);
    model.addAttribute( attributeName: "keyword2",keyword2);
    model.addAttribute( attributeName: "cin",cin);
    model.addAttribute( attributeName: "totalPages",pagePatients.getTotalPages());
    return "patients";
}

```

-Chercher les Patients

Keyword :

Score :

CIN :

Chercher

ID	NOM	Civilité	DATE NAISSANCE	MALADE	SCORE	N° Carte d'identité		
13	yousra		2022-04-20	false	10		Delete	Edit
17	yousra		2022-04-20	false	10		Delete	Edit
21	yousra		2022-04-20	false	10		Delete	Edit
25	yousra		2022-04-20	false	10		Delete	Edit
29	yousra		2022-04-20	false	10		Delete	Edit

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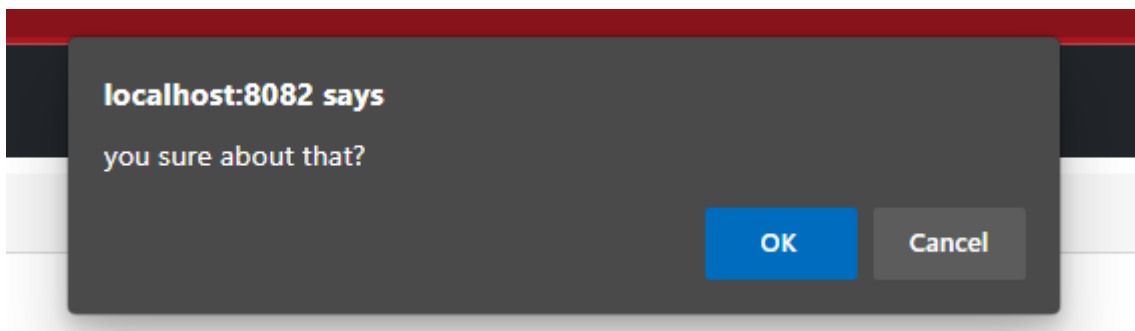
--code :

```

Page<Patient> findByNomContainsAndScoreGreaterThanOrEqual(String keyword, int keyword2, Pageable pageable);
Page<Patient> findByNomContainsAndScoreGreaterThanOrEqualAndCINContains(String keyword, int keyword2, String keyword3, Pageable pageable);

```

-Supprimer un Patient



--code :

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

PARTIE2 :

- Créer une page Template basée sur Thymeleaf Layout


```

<!DOCTYPE html>
<html lang="en" xmlns:th="http://www.thymeleaf.org"
      xmlns:layout="http://www.ultraq.net.nz/thymeleaf/layout"
      xmlns:sec="http://www.thymeleaf.org/extras/spring-security">
<head>
  <meta charset="UTF-8">
  <title>Title</title>
  <link rel="stylesheet" text="text/css" th:href="@{/webjars/bootstrap/5.1.3/css/bootstrap.min.css}"/>
  <script src="/webjars/bootstrap/5.1.3/js/bootstrap.bundle.js"></script>
</head>

```

- Saisir et Ajouter des Patients

Nom

Civilité

Date Naissance

Malade ☐

Score

N° Carte d'identité

Save

- Faire la Validation du Formulaire

```

@PostMapping(path = "${"/admin/save"})
public String save(Model model, @Valid Patient patient, BindingResult bindingResult, @RequestParam(defaultValue = "0") int page, @RequestParam(defaultValue = "") String keyword){
    if(bindingResult.hasErrors()) return "formPatients";
    patientRepository.save(patient);
    return "redirect:/user/index?page="+page+ "&keyword="+keyword;
}

```

- Editer et Mettre à jour un Patient

```
@GetMapping("/admin/editPatient")
public String editPatient(Model model, Long id, String keyword, int page){
    Patient patient=patientRepository.findById(id).orElse(null);
    if(patient==null) throw new RuntimeException("Patient Introuvable");
    model.addAttribute("patient",patient);
    model.addAttribute("page", page);
    model.addAttribute("keyword",keyword);
    return "editPatient";
}
```

Partie 3 & 4:

- Ajouter la dépendance Maven de Spring Security

```
<dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-security</artifactId>
</dependency>

<dependency>
    <groupId>org.thymeleaf.extras</groupId>
    <artifactId>thymeleaf-extras-springsecurity5</artifactId>
</dependency>
```

- Personnaliser la configuration de Spring Security

```
String encodedPWD=passwordEncoder.encode( rawPassword: "1111");
System.out.println(encodedPWD);
auth.inMemoryAuthentication() InMemoryUserDetailsManagerConfigurer<AuthenticationManagerBuilder>
    .withUser( username: "user1").password(encodedPWD).roles("USER") UserDetailsManagerConfigurer<...>.UserDetailsBuilder
    .and() InMemoryUserDetailsManagerConfigurer<AuthenticationManagerBuilder>
    .withUser( username: "admin").password(passwordEncoder.encode( rawPassword: "1111")).roles("USER", "ADMIN");
```

- Basculer de la stratégie authentication

```
auth.jdbcAuthentication()
    .dataSource(dataSource)
    .usersByUsernameQuery("select username as principal,password as credentials, active from users where username=?")
    .authoritiesByUsernameQuery("select username as principal, role as role from users_roles where username=?")
    .rolePrefix("ROLE_")
    .passwordEncoder(passwordEncoder);
```

- Basculer vers la stratégie UserDetailsService

```
auth.userDetailsService(userDetailsService);
```

```

@Service
public class UserDetailsServiceImpl implements UserDetailsService {
    private SecurityService securityService;

    public UserDetailsServiceImpl(SecurityService securityService) { this.securityService = securityService; }

    @Override
    public UserDetails loadUserByUsername(String username) throws UsernameNotFoundException {
        AppUser appUser=securityService.loadUserByUserName(username);
        /*Collection<GrantedAuthority> authorities= new ArrayList();
        appUser.getAppRoles().forEach(role->{ //pour chaque role on cree un objet de type Simple..
            SimpleGrantedAuthority authority= new SimpleGrantedAuthority(role.getRoleName()); //smtg about les roles
            authorities.add(authority);// ajout a la collection >>
        });*/

        Collection<GrantedAuthority> authorities1=
            appUser.getAppRoles().stream().map(role->new SimpleGrantedAuthority(role.getRoleName())).collect(Collectors.toList());

        User user= new User(appUser.getUsername(),appUser.getPassword(),authorities1);
        return user;
    }
}

```