ا لمدرسة العليا لأساتذة التعليم التقني المحمدية جامعة الحسن الثاني بالدار البيضاء

DÉPARTEMENT MATHÉMATIQUES ET INFORMATIQUE

Filière:

« Ingénierie Informatique : Big Data et Cloud Computing »

II-BDCC

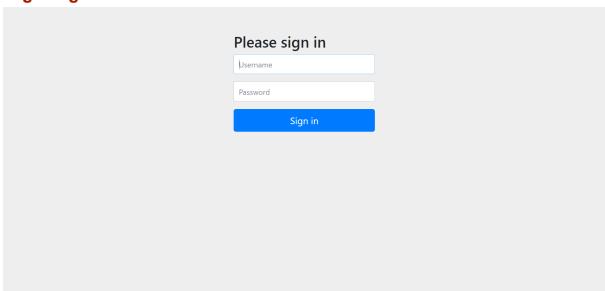
TP 3 : Spring MVC Thymeleaf

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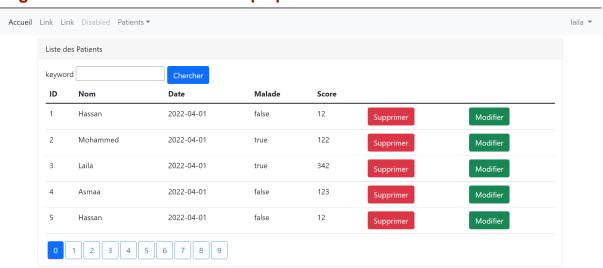
Classe: ii-BDCC 2

Interface Graphique

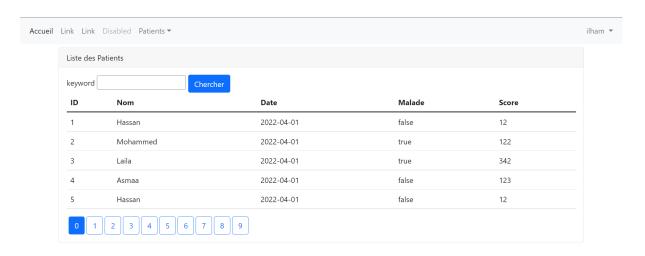
Page Login:



Page d'accueil de l'utilisateur qui possède un role Admin:

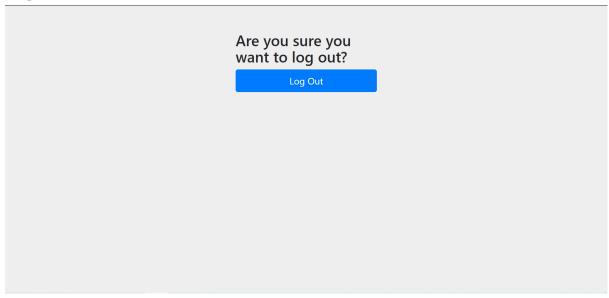


Page d'accueil pour les utilisateurs qui ne sont pas des Admins:



L'admin peut Rechercher, Ajouter, modifier et supprimer les patients. Pendant que les utilisateurs normaux peut seulement chercher et naviguer dans les pages des patients.

Page de déconnexion:

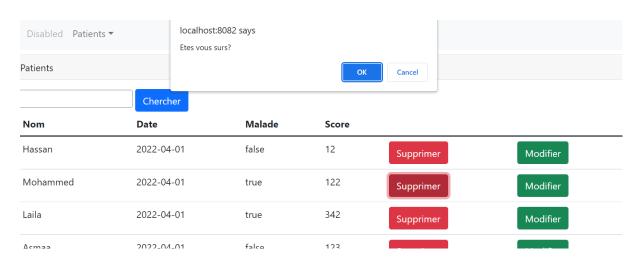


Page de Modification:



Suppression:

- Message d'alerte:



Partie Code

La structure du projet:



Les entités:

Patient:

```
@Entity

@QData @AllArgsConstructor @NoArgsConstructor

public class Patient {

    @Id

    @GeneratedValue(strategy = GenerationType.IDENTITY)

    private Long id;

    @NotEmpty

    @Size(min=4, max =40)

    private String nom;

    @Temporal(TemporalType.DATE)

    @DateTimeFormat(pattern = "yyyyy-MM-dd")

    private Date dateNaissance;

    private boolean malade;

    @DecimalMin("100")

    private int score;
}
```

Respositories:

PatientRespository:

```
public interface PatientRepository extends JpaRepository<Patient, Long> {
    Page<Patient> findByNomContains(String kw, Pageable pageable);
}
```

Security:

entitiés:

AppRole:

```
@Entity

@Data

@AllArgsConstructor @NoArgsConstructor

public class AppRole {

    @Id @GeneratedValue(strategy = GenerationType.IDENTITY)

    private Long roleId;

    @Column(unique = true)

    private String roleName;

    private String description;
}
```

AppUser:

```
@Entity
@Data
@AllArgsConstructor @NoArgsConstructor
public class AppUser {
    @Id
    private String userId;
    @Column(unique = true)
    private String username;
    private String password;
    private boolean active;
    @ManyToMany(fetch = FetchType.EAGER)
    private List<AppRole> appRoles = new ArrayList<>();
}
```

Respositories:

AppRoleRespository:

```
public interface AppRoleRepository extends JpaRepository<AppRole, Long> {
    AppRole findByRoleName(String roleName);
}
```

AppUserRespository:

```
public interface AppUserRepository extends JpaRepository<AppUser, String> {
    AppUser findByUsername(String username);
}
```

Service:

Interface SecurityService:

```
public interface SecurityService {
    AppUser saveUser(String username, String password, String rePassword);
    AppRole addNewRole(String roleName, String description);
    void addRoleToUser(String username, String roleName);
    void removeRoleFromUser(String username, String roleName);
    AppUser loadUserByUsername(String username);
}
```

Implémentation de SecurityService:

```
QSService
@Slf4j
@AllArgsConstructor
i@Transactional
public class SecurityServiceImpl implements SecurityService {
    private AppUserRepository appUserRepository;
    private AppRoleRepository appRoleRepository;
    private PasswordEncoder passwordEncoder;

@Override
public AppUser saveUser(String username, String password, String rePassword) {
        if(!password.equals(rePassword)) throw new RuntimeException("Les mots de passe ne correspondent String hashedPWD = passwordEncoder.encode(password);
        AppUser appUser = new AppUser();
        appUser.setUserId(UUID.randomUUID().toString());
        appUser.setUserId(UUID.randomUUID().toString());
        appUser.setPassword(hashedPWD);
        appUser.setActive(true);
        AppUser savedAppUser = appUserRepository.save(appUser);
        return savedAppUser;
}
```

Implémentation de UsersDetailsService de Spring:

SecurityConfig:

```
auth.userDetailsService(userDetailsService);

@Override
protected void configure(HttpSecurity http) throws Exception {
   http.formLogin();
   http.authorizeRequests().antMatchers( ...antPatterns: "/").permitAll();
   http.authorizeRequests().antMatchers( ...antPatterns: "/admin/**").hasAuthority("ADMIN");
   http.authorizeRequests().antMatchers( ...antPatterns: "/user/**").hasAuthority("USER");
   http.authorizeRequests().antMatchers( ...antPatterns: "/webjars/**").permitAll();
   http.authorizeRequests().antMatchers( ...antPatterns: "/webjars/**").permitAll();
   http.authorizeRequests().anyRequest().authenticated();
   http.exceptionHandling().accessDeniedPage("/403");
}
```

Web:

PatientController:

SecurityController:

```
@Controller
public class SecurityController {
    @GetMapping(⊙∨"/403")

public String notAuthorized(){
    return "403";
}
}
```

PatientsMVCApplication:

```
//@Bean
CommandLineRunner saveUser(SecurityService securityService){
    return args -> {
        securityService.saveUser( username: "laila", password: "1234", rePassword: "1234");
        securityService.saveUser( username: "ilham", password: "1234", rePassword: "1234");
        securityService.saveUser( username: "hafsa", password: "1234", rePassword: "1234");

        securityService.addNewRole( roleName: "USER", description: "");
        securityService.addNewRole( roleName: "ADMIN", description: "");

        securityService.addRoleToUser( username: "laila", roleName: "USER");
        securityService.addRoleToUser( username: "laila", roleName: "ADMIN");
        securityService.addRoleToUser( username: "ilham", roleName: "USER");
        securityService.addRoleToUser( username: "ilham", roleName: "USER");
        securityService.addRoleToUser( username: "lafsa", roleName: "USER");
    };
}
```

Templates:

403.html:

editPatient.html:

formPatients.html:

```
<body>
<div layout:fragment="content1">
   <div class="col-md-6 offset-3">
       <form method="post" th:action="@{/admin/save}">
               <label for="nom">Nom</label>
               <span class="text-danger" th:errors="${patient.nom}"></span>
           </div>
               <label>Date Naissance
               <input class="form-control" type="date" name="dateNaissance" th:value="${patient.dateNai</pre>
               <span class="text-danger" th:errors="${patient.dateNaissance}"></span>
               <label>Malade</label>
               <input type="checkbox" name="malade" th:checked="${patient.malade}">
               <span class="text-danger" th:errors="${patient.malade}"></span>
           </div>
               <label>Score</label>
               <input class="form-control" type="text" name="score" th:value="${patient.score}">
```

home.html:

patient.html:

template1.html:

```
<script src="/webjars/bootstrap/5.1.3/js/bootstrap.bundle.js"></script>

<p
```

Application properties:

```
spring.datasource.url=jdbc:mysql://localhost:3306/db_patients?createDatabaseIfNotExist=true
spring.datasource.username=root
spring.datasource.password=
server.port=8082
spring.jpa.show-sql=true
spring.jpa.hibernate.ddl-auto= update
spring.jpa.hibernate.ddl-auto= update
spring.jpa.properties.hibernate.dialect=org.hibernate.dialect.MariaDBDialect
spring.thymeleaf.cache=false
#spring.main.allow-circular-references=true
```