



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

DEPARTEMENT MATHEMATIQUES ET INFORMATIQUE

Compte Rendu

Filière:

« Génie du Logiciel et des Systèmes Informatiques Distribués » **GLSID**

Etudiant Spring

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Entités étudiant :

-Repository étudiant

-Controller (fonction qui retourne la vue du page d'accueil)

La vue HTML:

Controller (la vue qui retourne index)

```
@GetMapping(path=© "/wser/index")
public String etudiants(Model model,

@RequestParam(name="page", defaultValue = "0") int page,

@RequestParam(name="size", defaultValue = "5") int size,

@RequestParam(name="keyword", defaultValue = "") String keyword){

Page<Etudiant> pageetudiants = etudiantRepository.findEtudiantByNomContaining(keyword, PageRequest.of(page, size));

model.addAttribute( attributeName: "etudiantList", pageetudiants.getContent());

model.addAttribute( attributeName: "pages", new int[pageetudiants.getTotalPages()]);

model.addAttribute( attributeName: "currentPage", page);

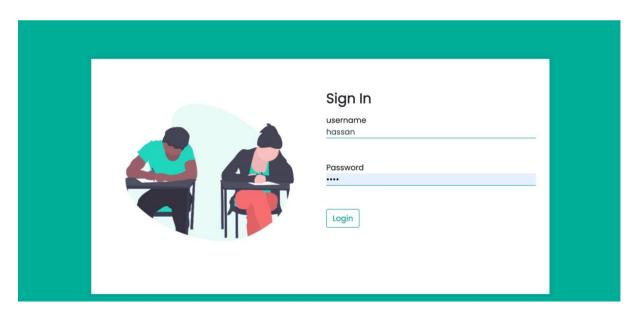
model.addAttribute( attributeName: "keyword", keyword);

return"etudiant";

}

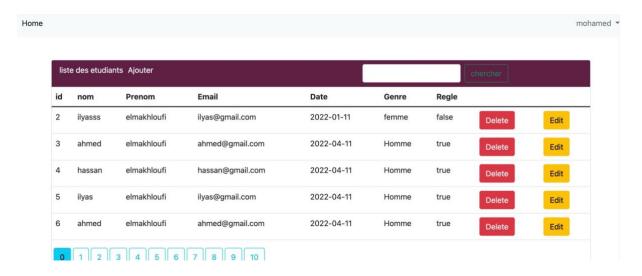
return"etudiant";
```

Page d'authentification



Le fichier HTML du page index

```
clayout:decorate="template1">
c
```



Controller Ajout

```
@GetMapping(path= "/admin/Ajouter")

public String Ajouter(Model model) {

model.addAttribute( attributeName: "etudiant", new Etudiant());

model.addAttribute( attributeName: "mode", attributeValue: "new");

return "EtudiantForm";

@PostMapping( "/admin/saveEtudiant")

public String saveEtudiant(@Valid Etudiant etudiant, BindingResult bindingResult) {

if (bindingResult.hasErrors())

return "EtudiantForm";

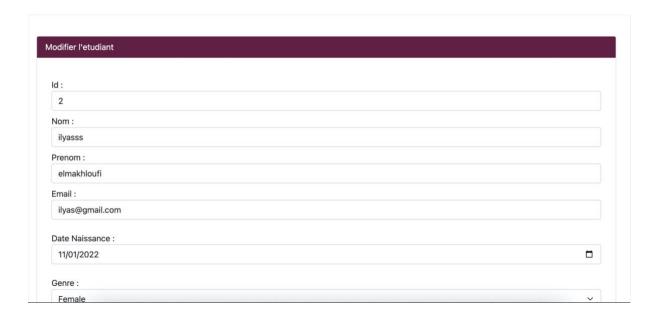
etudiantRepository.save(etudiant);

return "redirect: /user/index";
```

Formulaire d'ajout



Contoller modification:



Formulaire d'ajout et de modification :

```
Etudiant/java × dep EtudiantRepository/java × EtudiantController.java × EtudiantForm.html × Home.html × (/) application

xmlns:layout="http://www.ultraq.net.nz/thymeleaf/layout"
layout:decorate="template1"

chead>
chead>
chead>
chead>
clink rel="stylesheet" href="/webjars/bootstrap/5.1.3/css/bootstrap.min.css">

cliv class="container">

cliv class="container mt-lg-5">

cliv class="container">

cliv cliv cliv cl
```

Srping security:

Entité utilisateur pour l'authentification :

```
Descrity

Data

AllArgsConstructor

MoArgsConstructor

Class AppUser {

OId

private String userid;

Cocolumn(unique = true)

private String username;

private String password;

private String password;

private boolean active;

OManyToMany(fetch = FetchType.EAGER)

private List<AppRole> appRoles = new ArrayList<>();
```

Entité rôle pour l'authentification :

Repository utilisateur:

```
package ma.hassan.etudiant.security.repositories;

main

java

import ma.hassan.etudiant.security.entities.AppUser;

import org.springframework.data.jpa.repository.JpaRepository;

ma.hassan.etudiant

import org.springframework.data.jpa.repository.JpaRepository;

public interface AppUserRepository extends JpaRepository<AppUser,String> {

import org.springframework.data.jpa.repository.JpaRepository;

public interface AppUserRepository extends JpaRepository<AppUser,String> {

AppUser findAppUserByUsername(String id);

import org.springframework.data.jpa.repository.JpaRepository;

public interface AppUserRepository extends JpaRepository<AppUser,String> {

AppUser findAppUserByUsername(String id);

import org.springframework.data.jpa.repository.JpaRepository<AppUser,String> {

import org.springframework.data.jpa.repository.JpaRepository.JpaRepository.JpaRepository.JpaRepository.JpaRepository.JpaRepository.JpaRepository.JpaRepository.JpaRepository.JpaRepository.JpaRepository.JpaRepository.JpaRepository.JpaRepository.JpaRepository.JpaRepository.JpaRepository.JpaRepository.JpaRepository.JpaRepository.JpaRepository.JpaRepository.JpaRepository.JpaRepository.
```

Repository Role

Interface Security Service:

```
import ma.hassan.etudiant.security.entities.AppRole;
                            7 € 5% public interface SecurityService {
   Etudiant
   ## Genre
                                       AppUser saveNewUser(String username, String password, String rePassword);
e repository
  ## EtudiantRepository
                                      AppRole saveNewRole(String roleName, String description);
                                       void addRoleToUser(String username, String roleName);
security
                                       void removeRoleFromUser(String username,String roleName);
     AppRole
                                       AppUser loadUserByUsername(String username);
     AppUser

▼ repositories

     AppRoleRepository
     AppUserRepository
  service
     SecurityService
```

Une implementation de l'interface security service

```
▼ ma.hassan.etudiant

                                  Etudiant
                                 # Genre
                    e repository
                                ## EtudiantRepository

✓ ☐ security

                                                                                                                                                                                                              private PasswordEncoder myPasswordEncoder;
                                             AppUser

▼ repositories

                                            AppRoleRepository
                                             AppUserRepository
                                                                                                                                                                                                                 public AppUser saveNewUser(String username, String password, String rePassword) {

    service
    service

                                        SecurityService
                                                                                                                                                                                                                                   String hachedPWD =myPasswordEncoder.encode(password);
                                             SecurityServiceImp

■ UserDetailsServiceImpl

                                  SecurityConfig
                                                                                                                                                                                                                                   appUser.setUserid(UUID.randomUUID().toString());
                                  EtudiantController
                                                                                                                                                                                                                                    appUser.setUsername(username);
                                  SecurityController
                                                                                                                                                                                                                                        appUser.setPassword(hachedPWD);
```

User details service

```
import java.util.stream.Collectors;
    # Genre
                             21 🐞
                                        private SecurityService securityService:
 repository
    # EtudiantRepository

✓ ☐ security

                                        public UserDetails loadUserByUsername(String username) throws UsernameNotFoundException {
      AppRole
      AppUser
                                            Collection<GrantedAuthority> authorities= new ArrayList<>();
   repositories
                                            appUser.getAppRoles().forEach(role ->{
      AppRoleRepository
                                                       SimpleGrantedAuthority authority= new SimpleGrantedAuthority(role.getRoleName())
      AppUserRepository
      SecurityService
      SecurityServiceImp
       UserDetailsServiceImpl
                                                    appUser.getAppRoles().stream().map(role->new SimpleGrantedAuthority((role.getRoleNam
    SecurityConfig
 m web
                                            User user= new User(appUser.getUsername(),appUser.getPassword(),authorities1);
    EtudiantControlle
```

Security configuration:

```
DataSource dataSource;
    Etudiant
    # Genre
                                         @Autowired
repository
                               ٠
                                          private UserDetailsServiceImpl userDetailsService;
    # EtudiantRepository

✓ ☐ security

                            26
                                          private PasswordEncoder passwordEncoder;
      AppRole
                             28 100
                                          protected void configure(AuthenticationManagerBuilder auth) throws Exception {
       AppUser
                                              System.out.println(passwordEncoder.encode( rawPassword: "1234"));
  repositories
      AppRoleRepository
      4 AppUserRepository
      SecurityService
       SecurityServiceImp
       UserDetailsServiceImpl
    SecurityConfig
  web
     EtudiantController
                                              auth.userDetailsService(userDetailsService);
    SecurityController
```

Security Controller :

```
6 ()
  entities
     Etudiant
                                          @GetMapping(@w"/403")
     ■ Genre
                                         public String notAuthorized() { return "403"; }

▼ lie repository

    # EtudiantRepository
                                      ¡ @GetMapping(⑤▽"/login")

✓ 

security

✓ ■ entities

                                          public String login() { return "login"; }
       AppRole
       AppUser

▼ repositories

       AppRoleRepository
       AppUserRepository

✓ Service

       SecurityService
       SecurityServiceIm
```