

AJDOUR AYOUB DCC0020/23 2023/2024





Gestion d'école

Pour poursuivre le développement de notre projet de gestion d'école, nous envisageons d'intégrer les frameworks JSF (JavaServer Faces) et Spring. Ces choix sont motivés par la nécessité d'apporter une évolutivité et une efficacité accrues à notre application. La partie du projet dédiée aux filières bénéficiera de l'utilisation de JSF, permettant ainsi des opérations CRUD fluides pour la gestion des programmes d'études. De plus, la gestion des étudiants sera optimisée grâce à l'intégration du framework Spring, qui facilitera l'ajout, la mise à jour et la suppression des profils d'étudiants. L'ensemble de ces fonctionnalités sera étroitement intégré au code source existant, disponible sur mon compte GitHub, offrant ainsi une vision complète des nouvelles structures, configurations Hibernate, JSF et Spring, ainsi que des améliorations apportées à la gestion des filières et des étudiants."





https://github.com/Ayoub-Ajdour/GestionD-Ecole

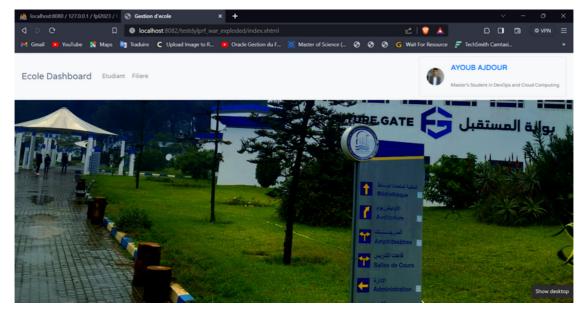


Figure 1: L'interface home

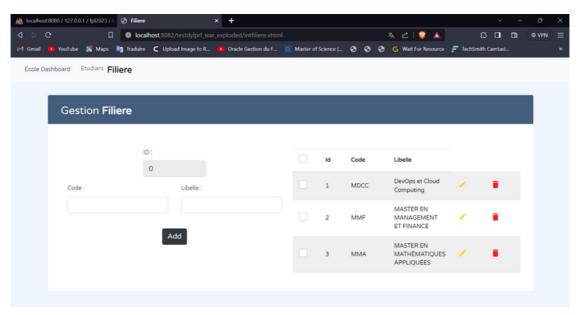


Figure 2: L'interface de gestion de Filiere

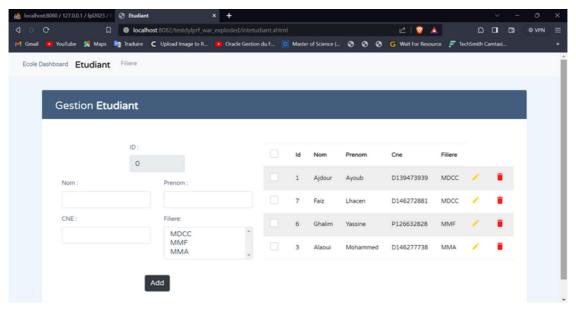


Figure 3: L'interface degestion d'Etudiant

Class Filiere

```
import javax.persistence.*;
import java.util.Objects;
@Entity
@Table(name = "filiere", catalog = "fp12023")
   @Column(name = "idFiliere")
   @GeneratedValue(strategy = GenerationType.IDENTITY)
   private String libelle;
   @OneToMany(mappedBy = "filiere")
   public int getIdFiliere() {
       return idFiliere;
    public void setIdFiliere(int idFiliere) {
    public void setCode(String code) {
    public String getLibelle() {
       return libelle;
    public void setLibelle(String libelle) {
       this.libelle = libelle;
    public Set<Etudiant> getEtudiantsByIdFiliere() {
       return etudiantsByIdFiliere;
```

```
public void setEtudiantsByIdFiliere(Set<Etudiant> etudiantsByIdFiliere) {
    this.etudiantsByIdFiliere = etudiantsByIdFiliere;
}

@Override
public int hashCode() {
    return Objects.hash(idFiliere, code, libelle, etudiantsByIdFiliere);
}
```

Class Etudiant

```
import javax.persistence.*;
   @GeneratedValue(strategy = GenerationType.IDENTITY)
   @Column(name = "nom", nullable = false, length = 50)
   private String nom;
    @Column(name = "cne", nullable = false, length = 50)
    @ManyToOne(fetch = FetchType.EAGER)
nullable = false)
    public void setIdEtudiant(int idEtudiant) {
```

```
@Override
public boolean equals(Object o) {
   if (o == null || getClass() != o.getClass()) return false;
```

Class FiliereBean

```
import javax.faces.bean.ManagedBean;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.context.annotation.Scope;
import org.springframework.stereotype.Component;
import com.service.FiliereService;
@Component
@ManagedBean
@Scope("session")
public class FiliereBean {
    @Autowired
   private Filiere filiere;
    public Filiere getFiliere() {
    public boolean isModifyContext() {
       return modifyContext;
    public void setModifyContext(boolean modifyContext) {
      this.modifyContext = modifyContext;
       return this.filiereService.getAll();
```

```
public String getLabel() {
    return isModifyContext() ? "Edit" : "Add";
}

@Transactional
public void save() {

    this.filiereService.saveOrUpdate(this.filiere);
    this.filiere = new Filiere();
    this.setModifyContext(false);
}

public void modifyy(Filiere f) {

    this.filiere = f;
    this.setModifyContext(true);
}

@Transactional
public void delete(Filiere f) {

    this.filiereService.delete(f);
    this.filiere = new Filiere();
}
```

Class EtudiantBean

```
package com.beans;
import com.entities.Etudiant;
import com.entities.Filiere;
import com.service.EtudiantService;
import com.service.impl.EtudiantServiceImpl;
import com.service.impl.FiliereServiceImpl;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.context.annotation.Scope;
import org.springframework.stereotype.Component;
import org.springframework.transaction.annotation.Transactional;
import javax.faces.bean.ManagedBean;
import javax.util.List;
@Component
@ManagedBean
@Scope("session")
public class EtudiantBean {
    @Autowired
    private Etudiant etudiant;
    private boolean modifyContext;
    private int filiere;
```

```
public void setEtudiant(Etudiant etudiant) {
   this.etudiant = etudiant;
public void setModifyContext(boolean modifyContext) {
   this.modifyContext = modifyContext;
   return isModifyContext() ? "Edit" : "Add";
   this.etudiantService.saveOrUpdate(this.etudiant);
   this.setModifyContext(false);
public void modifyy(Etudiant f) {
```

```
this.etudiant = f;
    this.setModifyContext(true);
}

//@Transactional
public void delete(Etudiant f) {
    this.etudiantService.delete(f);
    this.etudiant = new Etudiant();
}
```

Class FiliereDAOImpl

```
package com.dao.impl;
import java.util.List;
import org.hibernate.SessionFactory;
import org.hibernate.criterion.DetachedCriteria;
import org.springframework.orm.hibernate5.support.HibernateDaoSupport;
import org.springframework.stereotype.Repository;
import org.springframework.transaction.annotation.Transactional;
    public void setUpSessionFactory(SessionFactory sf) {
       this.setSessionFactory(sf);
      this.getHibernateTemplate().saveOrUpdate(f);
   public void delete(Filiere f) {
       this.getHibernateTemplate().delete(f);
```

Class EtudiantDAOImpl

```
import com.entities.Etudiant;
import org.hibernate.SessionFactory;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.orm.hibernate5.support.HibernateDaoSupport;
import org.springframework.stereotype.Repository;
import org.springframework.transaction.annotation.Transactional;
@Repository
public class EtudiantDaoImpl extends HibernateDaoSupport implements
EtudiantDAO {
   @Autowired
    public void setUpSessionFactory(SessionFactory sf) {
        this.setSessionFactory(sf);
    @Override
    @Transactional
    public void saveOrUpdate(Etudiant f) {
        this.getHibernateTemplate().saveOrUpdate(f);
    @Override
        this.getHibernateTemplate().delete(f);
    @Override
        return this.getHibernateTemplate().get(Etudiant.class, id);
    @Override
```

Class FiliereServiceImpl

```
package com.service.impl;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Component;
import org.springframework.transaction.annotation.Transactional;
import com.dao.FiliereDAO;
import com.entities.Filiere;
import com.service.FiliereService;
       this.filiereDao.saveOrUpdate(f);
   public void delete(Filiere f) {
      this.filiereDao.delete(f);
   @Override
      List<Filiere> filieres = this.filiereDao.getAll();
```

Class EtudiantService

```
import com.dao.EtudiantDAO;
import com.service.EtudiantService;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Component;
import org.springframework.transaction.annotation.Transactional;
    @Override
   @Transactional
        this.etudiantDAO.saveOrUpdate(f);
   public void delete(Etudiant f) {
        this.etudiantDAO.delete(f);
    @Override
       return this.etudiantDAO.getById(id);
```

filiere.xhtml

```
<div class="container-xl" >
                       <h2>Gestion <b>Filiere</b></h2>
           <div class="container-fluid">
center"></div>
                                   <label>ID :</label>
value="#{filiereBean.filiere.idFiliere}"
                               </div>
                           </div>
                           <div class="container">
                                   <div class="col-sm-12 col-md-6 mx-auto">
                                           <label>Code :</label>
value="#{filiereBean.filiere.code}"
required="true" />
                                       </div>
                                   </div>
                                           <label>Libelle :</label>
value="#{filiereBean.filiere.libelle}"
                                                  class="form-control "
required="true" />
                                       </div>
                               </div>
                           </div>
                              <br></br>
```

```
value="${filiereBean.label}" />
                         </div>
                  <div class="section">
                     <h:form>
                         <span class="custom-checkbox">
                             <input type="checkbox"</pre>
                                Id
                                Code
                                Libelle
                            </thead>
                         <span class="custom-checkbox">
                            <input type="checkbox" id="checkbox1"</pre>
name="options[]" value="1"></input>
                         </span>
                                    ${f.idFiliere}
                                    style="color: #FFD700;"></i></h:commandLink>
                                    action="#{filiereBean.delete(f)}">
                                           <i class="material-icons"</pre>
```

etudiant.xhtml

```
<div class="container-xl" >
            <div class="table-wrapper">
                    <div class="row">
                         <div class="col-sm-6">
                             <h2>Gestion <b>Etudiant</b></h2>
                         </div>
                    </div>
                </div>
                    <div id="alert" class="alert font-weight-bold text-</pre>
center"></div>
                    <div class="row">
                         <div class="section">
                                          <label>ID :</label>
                                     </div>
                                 </div>
                                         <div class="col-sm-12 col-md-6 mx-</pre>
                                              <div class="form-group">
                                                  <label>Nom :</label>
value="#{etudiantBean.etudiant.nom}"
```

```
</div>
                                        </div>
                                            <div class="form-group">
                                            </div>
                                        </div>
value="#{etudiantBean.etudiant.cne}"
value="#{filiereBean.filieres}" var="f" itemLabel="#{f.code}"
itemValue="#{f.idFiliere}" class="form-control"/>
                                            </div>
                                        </div>
                                    </div>
                                </div>
                                    <br></br>
action="#{etudiantBean.save()}"
                                </div>
```

```
</div>
                              <input type="checkbox"</pre>
id="selectAll"></input>
                              <label for="selectAll"></label>
                           </span>
                                 Id
                                 Nom
                                 Prenom
                              </thead>
                              <label for="checkbox1"></label>
                           </span>
                                     action="#{etudiantBean.modifyy(e)}"><i class="material-icons" title="Edit"</pre>
                                     <h:commandLink
action="#{etudiantBean.delete(e)}">
```