

DÉPARTEMENT MATHÉMATIQUES ET INFORMATIQUE

Activity 2

Filière :

« Génie du Logiciel et des Systèmes Informatiques Distribués »

GLSID

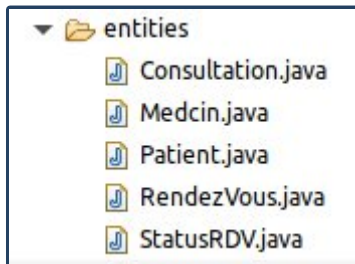
Hospital App

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Entities :



Patient :

```

1 package com.example.hospitalApp.entities;
2
3 import lombok.AllArgsConstructor;
4
10
11 @Entity
12 @Data
13 @NoArgsConstructor
14 @AllArgsConstructor
15 public class Patient {
16     @Id
17     @GeneratedValue(strategy = GenerationType.IDENTITY)
18     private Long id;
19     @Column(length = 50)
20     private String nom;
21     @Temporal(TemporalType.DATE)
22     private Date dateNaissance;
23     private boolean malade;
24     private int score;
25     @OneToMany (mappedBy = "patient" , fetch = FetchType.LAZY )
26     private Collection<RendezVous> rdv;
27
28 }

```

Medecin :

```
1 package com.example.hospitalApp.entities;
2
3 import lombok.AllArgsConstructor;
4
5
6 @Entity
7 @Data
8 @NoArgsConstructor
9 @AllArgsConstructor
10 public class Medecin {
11     @Id
12     @GeneratedValue(strategy = GenerationType.IDENTITY)
13     private long id;
14     private String nom;
15     private String email;
16     private String specialite;
17     @OneToMany(mappedBy = "medecin")
18     private Collection<RendezVous> rdv;
19
20 }
21
```

Consultation :

```
1 package com.example.hospitalApp.entities;
2
3+ import lombok.AllArgsConstructor;
9 @Entity
10 @Data
11 @NoArgsConstructor
12 @AllArgsConstructor
13 public class Consultation {
14-     @Id
15     @GeneratedValue(strategy = GenerationType.IDENTITY)
16     private long id;
17     private Date DateConsult;
18     private String rapport;
19-     @OneToOne
20     private RendezVous rendezVous;
21 }
```

rendezVous :

```
1 package com.example.hospitalApp.entities;
2
3+ import lombok.AllArgsConstructor;
9 @Entity
10 @Data
11 @NoArgsConstructor
12 @AllArgsConstructor
13 public class RendezVous {
14-     @Id
15     @GeneratedValue(strategy = GenerationType.IDENTITY)
16     private long id;
17     private Date date;
18     private boolean annule;
19-     @Enumerated(EnumType.STRING)
20     private StatusRDV status;
21-     @ManyToOne
22     private Patient patient;
23-     @ManyToOne
24     private Medcin medcin;
25-     @OneToOne(mappedBy = "rendezVous")
26     private Consultation consultation;
27
28 }
```

Status :

```
1 package com.example.hospitalApp.entities;
2
3 public enum StatusRDV {
4     PENDING, CANCELED, DONE
5 }
6
```

Repositories :

- com.example.hospitalApp.repositories
 - ConsultationRepository.java
 - MedecinRepository.java
 - PatientRepository.java
 - RendezVousRepository.java

Medecin :

```
1 package com.example.hospitalApp.repositories;  
2  
3+ import com.example.hospitalApp.entities.Medecin;  
4  
5  
6 public interface MedecinRepository extends JpaRepository<Medecin,Long> {  
7     Medecin findByNom(String nom);  
8  
9 }  
10
```

Patient :

```
HospitalApplicatio  ConsultationReposit  MedecinRepository.j  PatientRepository.j X  
1 package com.example.hospitalApp.repositories;  
2  
3+ import com.example.hospitalApp.entities.Patient;  
4  
5  
6 public interface PatientRepository extends JpaRepository<Patient,Long> {  
7     Patient findByNom(String nom);  
8  
9 }
```

Service :

- com.example.hospitalApp.service
 - HospitalServiceImpl.java
 - IHospitalService.java

Service interface :

```
1 package com.example.hospitalApp.service;  
2  
3+ import com.example.hospitalApp.entities.Consultation;  
4  
5  
6  
7  
8  
9 public interface IHospitalService  
10 {  
11     Patient savePatient(Patient patient);  
12     Medecin saveMedecin(Medecin medcin);  
13     RendezVous saveRendezVous (RendezVous rendezVous);  
14     Consultation saveConsultation(Consultation consultation);  
15  
16 }  
17
```

Service imp :

```
1 package com.example.hospitalApp.service;
2
3+ import com.example.hospitalApp.entities.Consultation;
14
15 @Service
16 @Transactional
17 public class HospitalServiceImpl implements IHospitalService {
18     private PatientRepository patientRepository;
19     private MedecinRepository medecinRepository;
20     private ConsultationRepository consultationRepository;
21     private RendezVousRepository rendezVousRepository;
22
23-     public HospitalServiceImpl(PatientRepository patientRepository,
24         this.patientRepository = patientRepository;
25         this.medecinRepository = medecinRepository;
26         this.consultationRepository = consultationRepository;
27         this.rendezVousRepository = rendezVousRepository;
28     }
29
30-     @Override
31     public Patient savePatient(Patient patient) {
32         return patientRepository.save(patient);
33     }
34
35     @Override
36     public Patient savePatient(Patient patient) {
37         return patientRepository.save(patient);
38     }
39
40     @Override
41     public Medecin saveMedecin(Medecin medcin) {
42         return medecinRepository.save(medcin);
43     }
44
45     @Override
46     public RendezVous saveRendezVous(RendezVous rendezVous) {
47         return rendezVousRepository.save(rendezVous);
48     }
49
50     @Override
51     public Consultation saveConsultation(Consultation consultation) {
52         return consultationRepository.save(consultation);
53     }
54 }
```


Test web avec @RestController :

```
1 package com.example.hospitalApp.repositories;  
2  
3 import com.example.hospitalApp.entities.Patient;  
4  
5  
6  
7  
8 @RestController  
9 public interface PatientRepository extends JpaRepository<Patient, Long> {  
10     Patient findByNom(String nom);  
11  
12 }  
13
```

localhost:8086/patients

JSON Raw Data Headers

Save Copy Collapse All Expand All Filter JSON

_embedded:

patients:

0:

nom: "ali"

dateNaissance: "2022-05-24"

malade: false

score: 0

_links:

self:

href: "http://localhost:8086/patients/1"

patient:

href: "http://localhost:8086/patients/1"

rdv:

href: "http://localhost:8086/patients/1/rdv"

1:

nom: "james"

dateNaissance: "2022-05-24"

malade: false

score: 0

_links:

self:

href: "http://localhost:8086/patients/2"

patient:

href: "http://localhost:8086/patients/2"

rdv:

href: "http://localhost:8086/patients/2/rdv"