Université Hassan II de Casablanca





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

DÉPARTEMENT MATHÉMATIQUES ET INFORMATIQUE

Compte rendu de TP

Filière:

« Génie du Logiciel et des Systèmes Informatiques Distribués »

GLSID

TP6 : MAPPING ORM Héritage

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Package metier:

```
import java.util.arrayList;
                                                                A 3 ^
    import java.util.*;
    @Entity
    public class Role {
       @Id @GeneratedValue(strategy = GenerationType.IDENTITY)
€
       private Long Id;
       private String RoleName ;
       @Column(name = "Description")
0
       private String Desc ;
       @ToString.Exclude
       @ManyToMany(fetch = FetchType.EAGER)
       private List<User> users = new ArrayList<User>();
```

```
## Open Comparison of Comparis
```





Package Repositories

Package Services

```
package ma.enset.tpheritage.services;

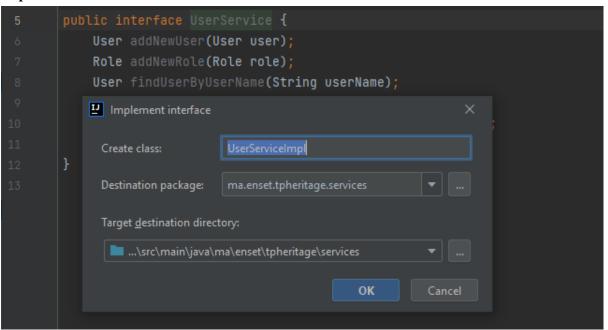
import ma.enset.tpheritage.entities.*;

log Role
log User
log RoleRepository
log UserRepository
log UserRepository
log UserService
log UserService
log UserService
log UserService
log UserService
log UserService
log TpHeritageApplication
log Void addRoleToUser(String userName, String roleName);
log TpHeritageApplication
log Void addRoleToUser(String userName, String roleName);
log TpHeritageApplication
log Void addRoleToUser(String userName, String roleName);
```





Implémentation de l'interface







Les annotations ajoutées: Contrainte d'intégrité

```
| OBTAINT | OBTA
```

```
### OBTAINS OF THE PROPERTY O
```





Package service: l'implémentation

```
import java.util.UUID;

QService QTransactional QAllArgsConstructor
public class UserServiceImpl implements UserService {

UserRepository userRepository;
RoleRepository roleRepository;
```

```
@Override
public User addNewUser(User user) {
    user.setUserId(UUID.randomUUID().toString());
    return userRepository.save(user) ;
}

@Override
public Role addNewRole(Role role) {
    return roleRepository.save(role);
}
```

```
package ma.enset.tpheritage.repositories;

import ma.enset.tpheritage.entities.Role;

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

public interface RoleRepository extends JpaRepository<Role, Long> {

Role findRoleByRoleName(String roleName);
}
```

```
import ma.enset.tpheritage.entities.User;
import org.springframework.data.jpa.repository.JpaRepository;

public interface UserRepository extends JpaRepository<User, String> {
    User findUserByUserName(String username);
}
```





```
@Override
public User findUserByUserName(String userName) {
return userRepository.findUserByUserName(userName);
}

@Override
@Override
public Role findRoleByRoleName(String roleName) {
return roleRepository.findRoleByRoleName(roleName);
}
```

```
@Override
public User findUserByUserName(String userName) {
    return userRepository.findUserByUserName(userName);
}

@Override
public Role findRoleByRoleName(String roleName) {
    return roleRepository.findRoleByRoleName(roleName);
}

@Override
public void addRoleToUser(String userName, String roleName) {
    User user = findUserByUserName( userName);
    Role role = findRoleByRoleName(roleName);
    user.getRoles().add(role);
    role.getUsers().add(user);
}

}
```

```
@Override
public User authenticate(String username, String password) throws Exception {
    User user = userRepository.findUserByUserName(username);
    if (user.getPassword().equals(password)){
        return user;
    }
    throw new Exception("Bad Credential");
}
```

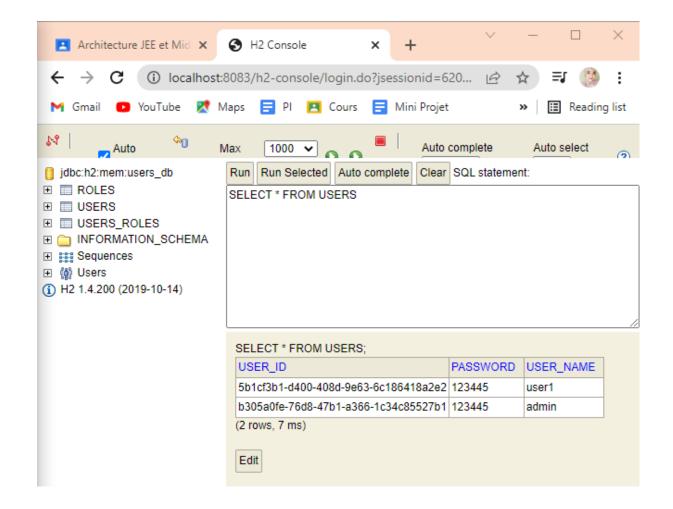
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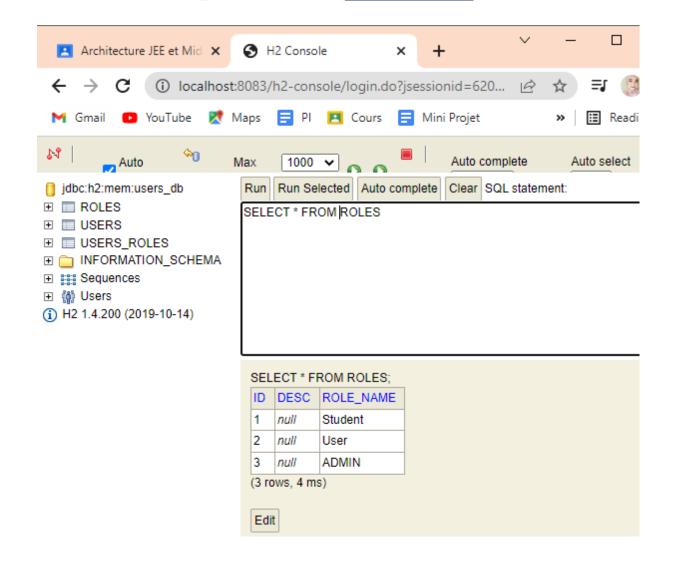
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