#### TP Sécurité

#### Partie 3:

1) Créer une classe « SignupRequest » dans package Request

```
public class SignupRequest {
   2 usages
   @NotBlank
   @Size(min = 3, max = 20)
    private String username;
   2 usages
   @NotBlank
   @Size(max = 50)
   @Email
    private String email;
   2 usages
    private Set<String> role;
@NotBlank
@Size(min = 6, max = 40)
private String password;
```

2) Créer une Classe « AuthController»

```
@RequestMapping(⊕∨"/api/auth")
public class AuthController {
    @Autowired
    AuthenticationManager authenticationManager;
    @Autowired
    UserRepository userRepository;
    @Autowired
    RoleRepository roleRepository;
    @Autowired
    PasswordEncoder encoder;
    @Autowired
    JwtUtils jwtUtils;

@Autowired
    RefreshTokenService refreshTokenService;
```

# Ajouter la fonction registrerUser

```
if (strRoles == null) {
  Role userRole = roleRepository.findByName(ERole.ROLE_USER)
      .orElseThrow(() -> new RuntimeException("Error: Role is not found."));
 roles.add(userRole);
} else {
  strRoles.forEach(role -> {
    switch (role) {
      Role adminRole = roleRepository.findByName(ERole.ROLE_ADMIN)
          .orElseThrow(() -> new RuntimeException("Error: Role is not found."));
      roles.add(adminRole);
                                                                        ▲1 ▲6 ≪4 ^
           break;
           Role modRole = roleRepository.findByName(ERole.ROLE_MODERATOR)
               .orElseThrow(() -> new RuntimeException("Error: Role is not found."));
           roles.add(modRole);
           break;
         default:
           Role userRole = roleRepository.findByName(ERole.ROLE_USER)
               .orElseThrow(() -> new RuntimeException("Error: Role is not found."));
           roles.add(userRole);
```

### Ajouter la fonction authenticateUser

```
List<String> roles = userDetails.getAuthorities() Collection<capture of externol stream().map(item -> item.getAuthority()) Stream<String> .collect(Collectors.toList());

RefreshToken refreshToken = refreshTokenService.createRefreshToken (userDetails.getId());

return ResponseEntity.ok(new JwtResponse(jwt, refreshToken.getToken(), userDetails.getId(), userDetails.getId(), roles));

}
```

# Créer une classe « LoginRequest »

```
public class LoginRequest {
    2 usages
    @NotBlank
    private String username;

2 usages
    @NotBlank
    private String password;
```

Créer une classe RefreshToken dans le package Models

```
@Entity(name = "refreshtoken")
public class RefreshToken {
    @Id
    @GeneratedValue(strategy = GenerationType.AUTO)
    private long id;
    2 usages
    @OneToOne
    @JoinColumn(name = "user_id", referencedColumnName = "id")
    private User user;
    2 usages
    @Column(nullable = false, unique = true)
    private String token;
    2 usages
    @Column(nullable = false)
    private Instant expiryDate;
```

Créer une interface RefreshTokenRepository

Créer une Classe « **RefreshTokenService** » dans package **Service** 

```
@Service
public class RefreshTokenService {
    @Value("${ahlem.app.jwtRefreshExpirationMs}")
    private Long refreshTokenDurationMs;

@Autowired
    private RefreshTokenRepository refreshTokenRepository;

@Autowired
    private UserRepository userRepository;

1 usage
    public Optional<RefreshToken> findByToken(String token) {
        return refreshTokenRepository.findByToken(token);
    }
}
```

```
public RefreshToken createRefreshToken(Long userId) {
   RefreshToken refreshToken = new RefreshToken();

   refreshToken.setUser(userRepository.findById(userId).get());
   refreshToken.setExpiryDate(Instant.now().
        plusMillis(refreshTokenDurationMs));
   refreshToken.setToken(UUID.randomUUID().toString());

   refreshToken = refreshTokenRepository.save(refreshToken);
   return refreshToken;
}
```

#### Créer une Classe « MessageResponse »

```
4 usages
public class MessageResponse {
    3 usages
    private String message;

3 usages
> public MessageResponse(String message) { this.message = message; }
```

## Créer une classe JwtResponse

```
public class JwtResponse {
    3 usages
    private String token;
    2 usages
    private String type = "Bearer";
    3 usages
    private String refreshToken;
    3 usages
    private Long id;
    3 usages
    private String username;
    3 usages
    private String email;
```