비디오 게임 평점, 정보 검색 서비스 개발 포트폴리오

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소스코드/앱 링크

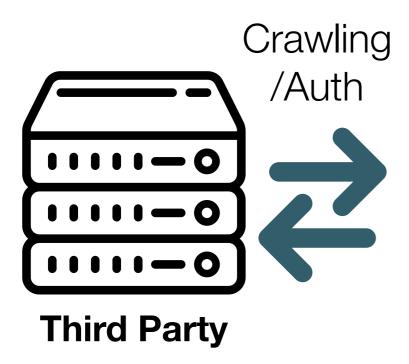
・ 소스코드:

- Front End : https://github.com/JaeguKim/GameTodoey
- Back End : https://github.com/JaeguKim/
 GameTodoey-Backend
- ・ 앱 링크
 - https://apps.apple.com/kr/app/gametodoey/ id1507663102?l=en
- REST API Document
 - https://app.swaggerhub.com/apis-docs/JaeguKim/ GameTodoey-Admin-API/0.0.1

Language/Framework

Front End Back End Swift

전체 서비스 아키텍쳐



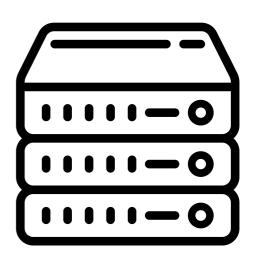
(Firebase, Metacritic, Howlongtobeat)



Client



Response



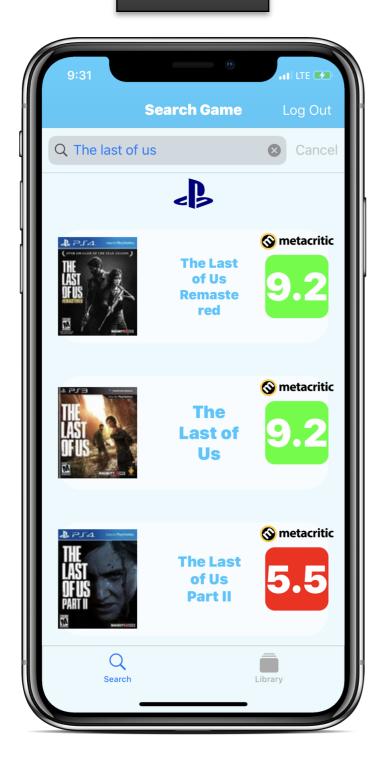
Backend

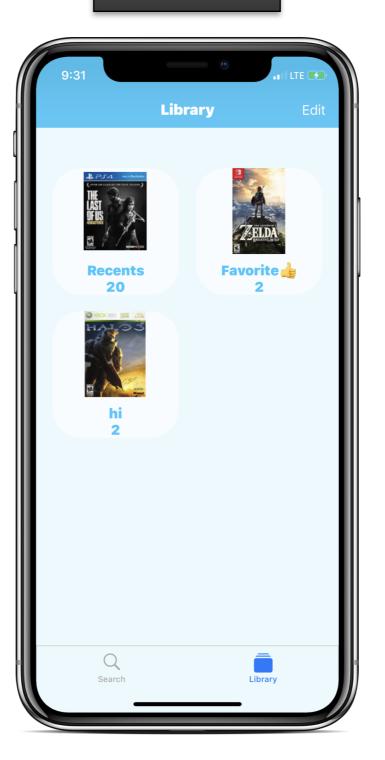
Frontend 실행화면

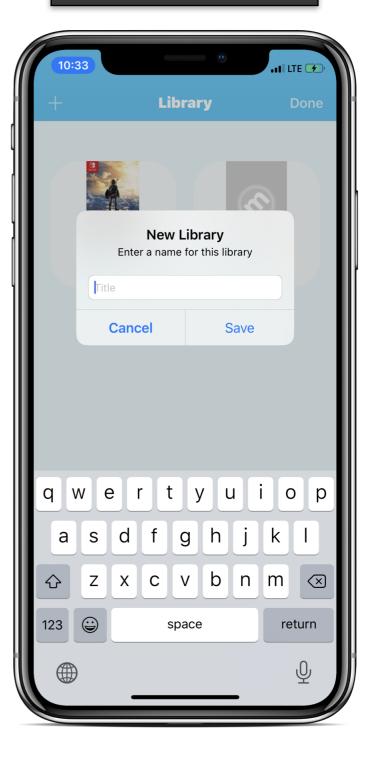
게임검색

라이브러리

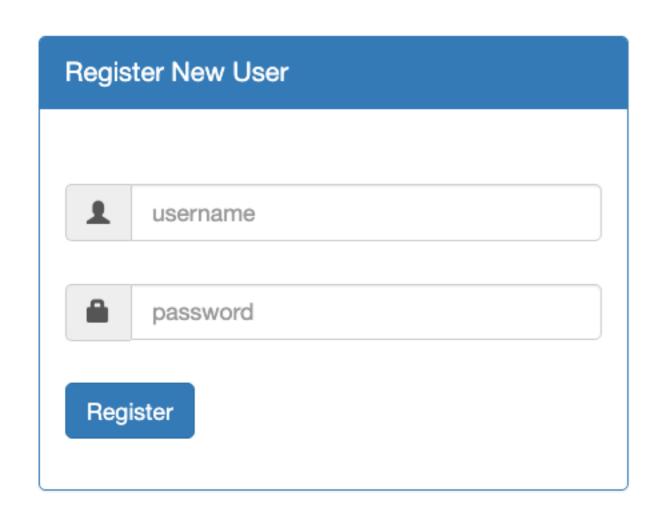
라이브러리 생성

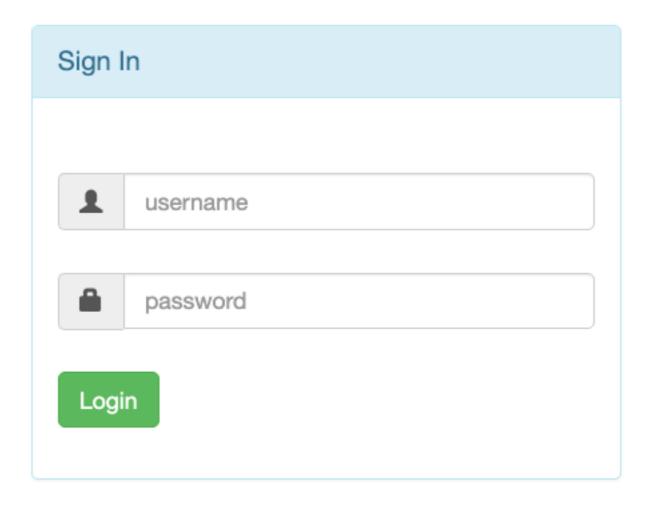






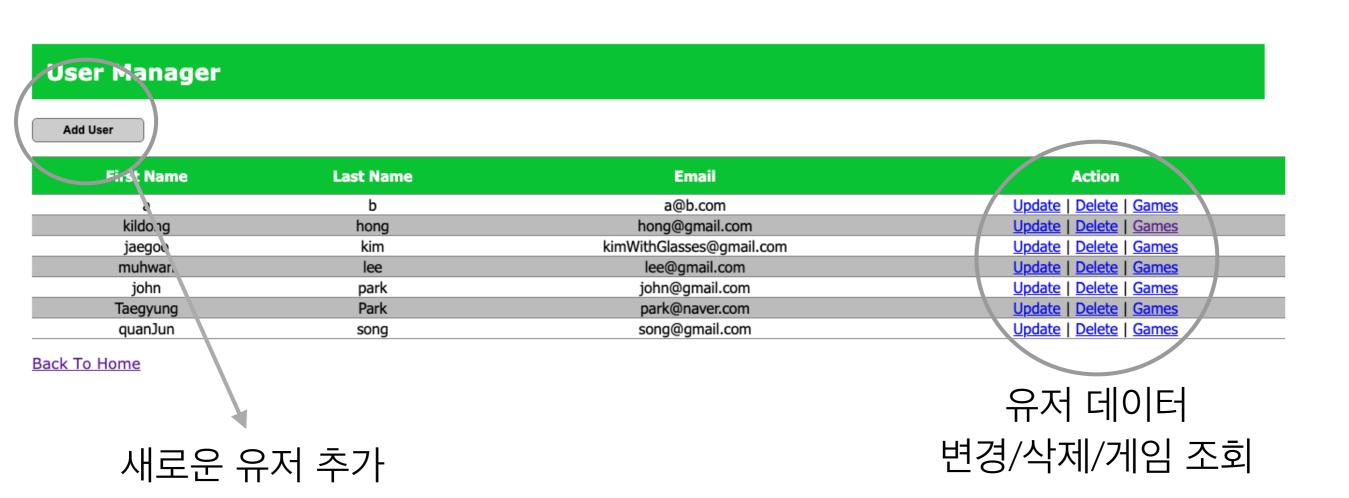
Register/Login/Logout



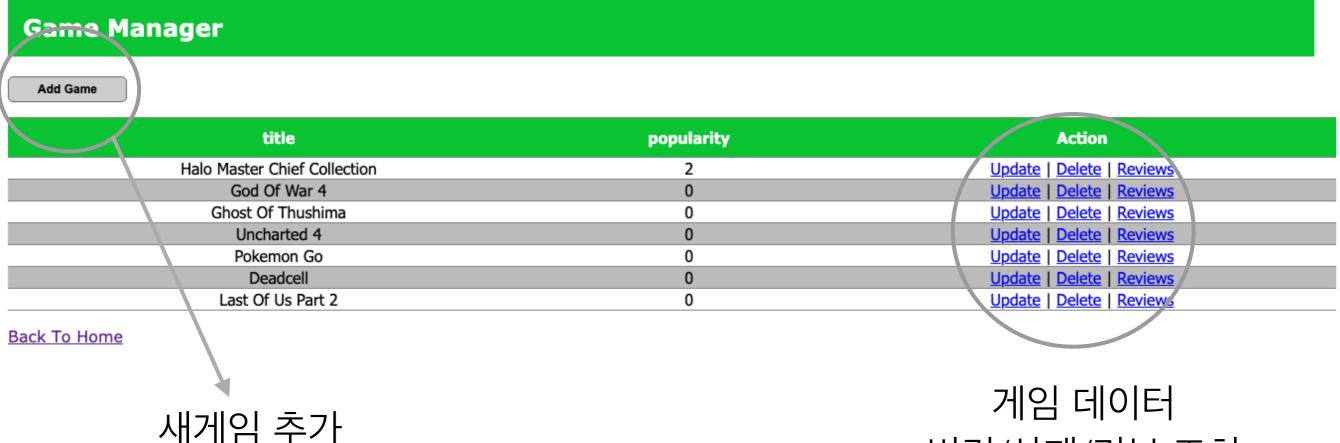


Register New User

Backend Admin 실행화면 (유저 조회)

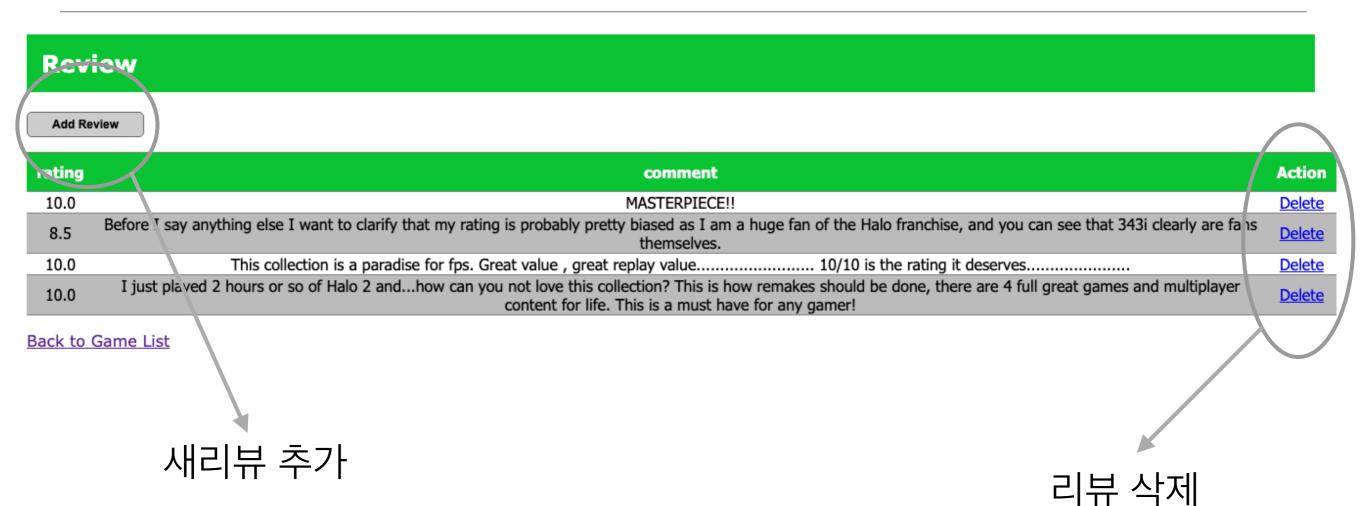


Backend Admin 실행화면 (게임 조회)



변경/삭제/리뷰 조회

Backend Admin 실행화면 (특정 게임에 대한 리뷰 조회)



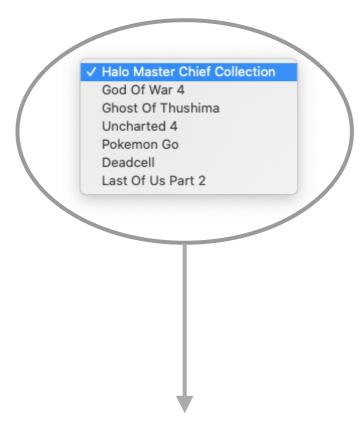
Backend Admin 실행화면 (보유 게임 추가)

Game Manager

Save Game

Select Game:

Back to List

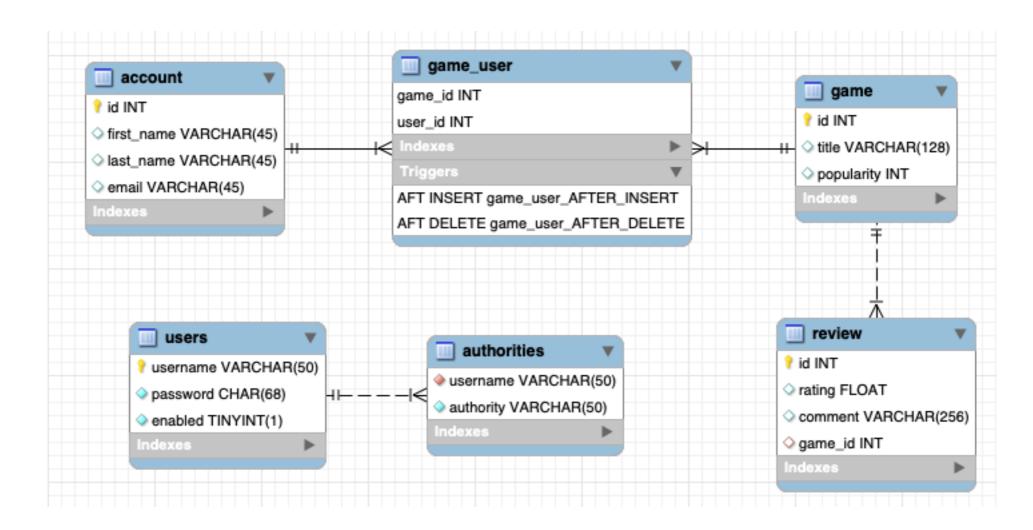


추가할 게임 선택

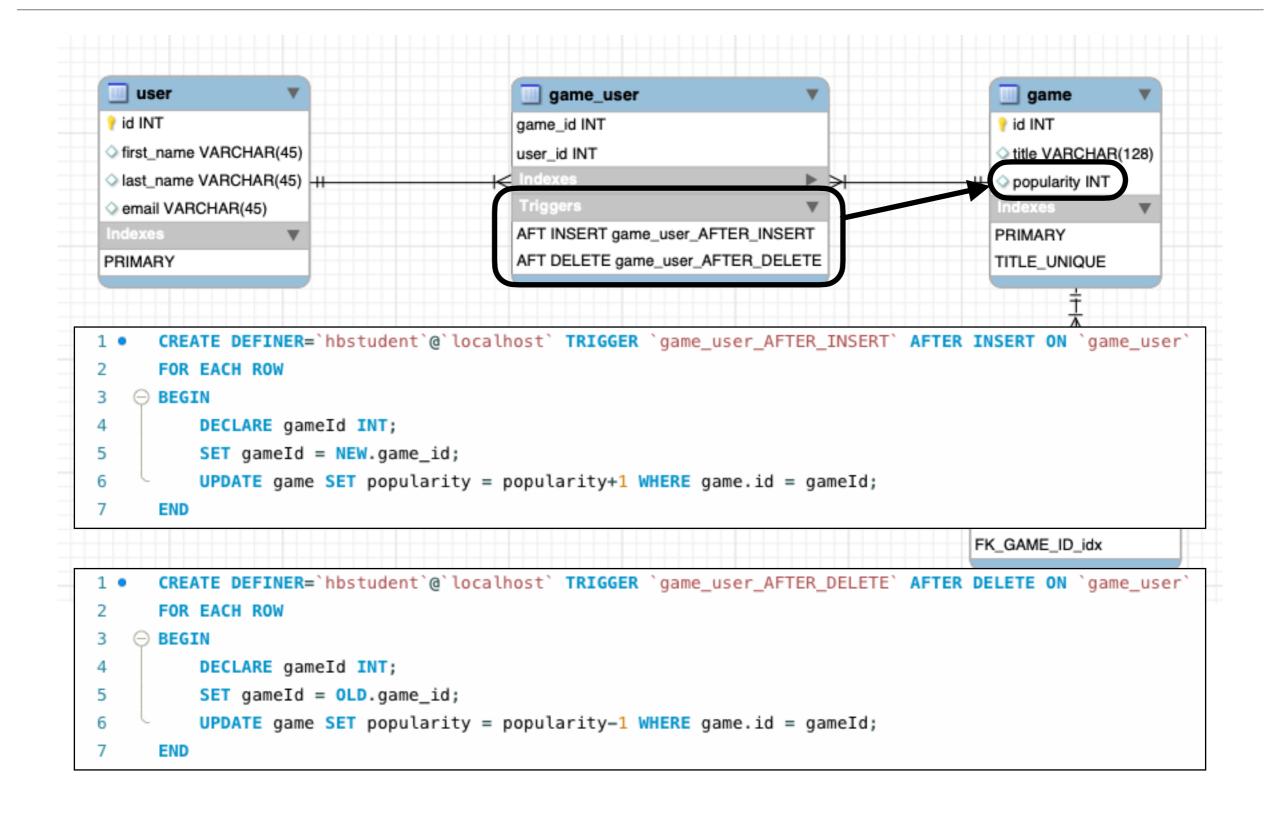
사용된 Spring 버전 및 dependency

- Spring Framework 5.0.6 RELEASE
- Hibernate 5.4.1 Final
- MySQL 5.1.45
- · C3P0 0.9.5.2
- MAVEN 1.8
- Java 1.8
- Spring Security 5.0.3 RELEASE

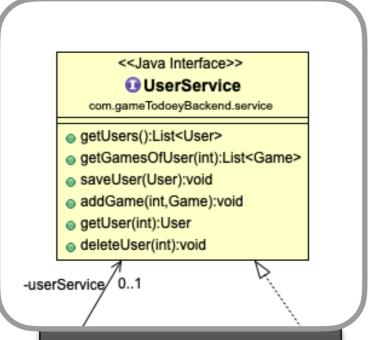
ER Diagram



Trigger (유저가 게임을 추가/삭제할시 자동으로 인기도 업데이트)



UML Diagram (유저 예시)



데이터의 사용로직

DB 데이터 접근만 담당

<<Java Class>>
G UserRestController
com.gameTodoeyBackend.rest

- getUsers():List<User>
- getUser(int):User
- getGamesOfUsers(int):List<Game>
- addUser(User):User
- addGameToUser(int,Game):Game
- updateUser(User):User
- deleteUser(int):String

© UserServiceImpl
com.gameTodoeyBackend.service

© UserServiceImpl()
getUsers():List<User>
getGamesOfUser(int):List<Game>
saveUser(User):void
addGame(int,Game):void

getUser(int):User

deleteUser(int):void

<<Java Class>>

<<Java Class>>

sessionFactory: SessionFactory

UserDAOImpl()

- getUsers():List<User>
- getGamesOfUser(int):List<Game>
- saveUser(User):void
- addGame(int,Game):void
- getUser(int):User
- deleteUser(int):void

Game 레코드 삭제시 Hibernate 내부 동작

```
@DeleteMapping("/games/{gameId}")
public String deleteGame(@PathVariable(name = "gameId") int gameId) {
     Game theGame = gameService.getGame(gameId);
     if (theGame == null) {
           throw new GameNotFoundException("Game id not found - " + gameId);
     gameService.deleteGame(gameId);
     return "Deleted user id - " + gameId;
 INFO: in deleteGame(): Calling REST API http://localhost:8080/gameTodoevBackend/api/games
Hibernate: select game0_.id as id1_0_0_, game0_.popularity as populari2_0_0_, game0_.title as title3_0_0_ from game game0_ where game0_.id=?
Hibernate: select gamev_.id as idi_v_v_, gamev_.popularity as populariz_v_v_, gamev_.title as title3_v_v_ from game gamev_ where gamev_.id=
Hibernate: select reviews0_.game_id as game_id3_2_0_, reviews0_.id as id1_2_0_, reviews0_.id as id1_2_1_, reviews0_.comment as comment2_2_1_,
 Hibernate: update review set game_id=null where game_id=?
Hibernate: delete from game_user where game_id=?
```

Hibernate: delete from review where id=? Hibernate: delete from review where id=? Hibernate: delete from game where id=?

Game 레코드 삭제시 Hibernate 내부 동작

```
@Override
  public void deleteGame(int theId) {
         // get the current hibernate session
         Session currentSession = sessionFactory.getCurrentSession();
         // delete object with primary key
         Game theGame = currentSession.load(Game.class, theId);
         if (theGame != null)
               currentSession.delete(theGame);
INFO: in deleteGame(): Calling REST API http://localhost:8080/gameTodoeyBackend/api/games
Hibernate: select game0_.id as id1_0_0_, game0_.popularity as populari2_0_0_, game0_.title as title3_0_0_ from game game0_ where game0_.id=?
Hibernate: select game0 .id as id1 0 0 , game0 .popularity as populari2 0 0 , game0 .title as title3 0 0 from game game0 where game0 .id=?
Hibernate: select reviews0_.game_id as game_id3_2_0_, reviews0_.id as id1_2_0_, reviews0_.id as id1_2_1_, reviews0_.comment as comment2_2_1_
Hibernate: update review set game_id=null where game_id=?
Hibernate: delete from game user where game id=?
Hibernate: delete from review where id=?
Hibernate: delete from review where id=?
Hibernate: delete from game where id=?
```

연관된 Review 삭제, User와의 JoinTable 데이터 삭제 쿼리 생성

User 게임 레코드 조회시 Hibernate 내부 동작

fetch 타입이 LAZY 이므로

유저정보에 대한 조회가 일어날때, 게임정보를 조회하기 위한 별도의 쿼리가 발생하지 않는다.

```
Sep 04. 2020 11:51:49 AM com.gameTodoeyBackendClient.service.UserServiceRestClientImpl getUsers
INFO: in getUsers(): Calling REST API http://localhost:8080/gameTodoeyBackend/api/users
Hibernate: select user0_.id as id1_3_, user0_.email as email2_3_, user0_.first_name as first_na3_3_,
```

User 게임 레코드 조회시 Hibernate 내부 동작

fetch 타입이 LAZY 이므로 유저게임 정보에 대한 조회가 일어날때, game_join 테이블과 game 테이블의 inner join이 발생

```
Sep 04, 2020 11:40:05 AM com.gameTodoeyBackendClient.service.UserServiceRestClientImpl getGamesOfUser INFO: in getGamesOfUser(): Calling REST API http://localhost:8080/gameTodoeyBackend/api/users/games/5 Hibernate: select user0 .id as id1 3 0 . user0 .email as email2 3 0 . user0 .first name as first na3 3 0 Hibernate: select games0_.user_id as user_id1_1_0_, games0_.game_id as game_id2_1_0_, game1_.id as id1_0
```

Admin의 권한에 따라 URL 접근제한 설정

```
@Override
protected void configure(HttpSecurity http) throws Exception {
    http.authorizeRequests()
        .antMatchers("/account/showForm*").hasAnyRole("USER_ADMIN", "SUPER_ADMIN")
        .antMatchers("/account/save*").hasAnyRole("USER_ADMIN", "SUPER_ADMIN")
        .antMatchers("/account/delete").hasRole("SUPER_ADMIN")
        .antMatchers("/account/**").hasRole("NORMAL_ADMIN")
        .antMatchers("/game/showForm*").hasAnyRole("USER_ADMIN", "SUPER_ADMIN")
        .antMatchers("/game/save*").hasAnyRole("USER_ADMIN", "SUPER_ADMIN")
        .antMatchers("/game/delete").hasRole("SUPER_ADMIN")
        .antMatchers("/game/**").hasRole("NORMAL_ADMIN")
        .antMatchers("/resources/**").permitAll()
        .and()
        .formLogin()
            .loginPage("/showMyLoginPage")
            .loginProcessingUrl("/authenticateTheUser")
            .permitAll()
        .and()
        .logout().permitAll()
        .and()
        .exceptionHandling().accessDeniedPage("/access-denied");
```