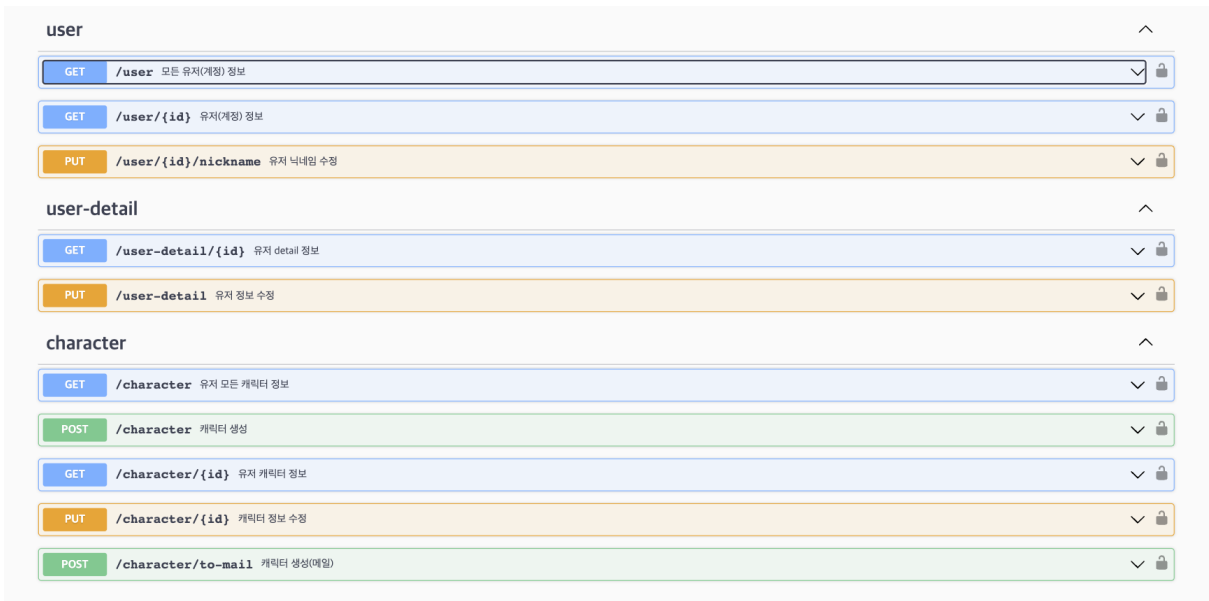
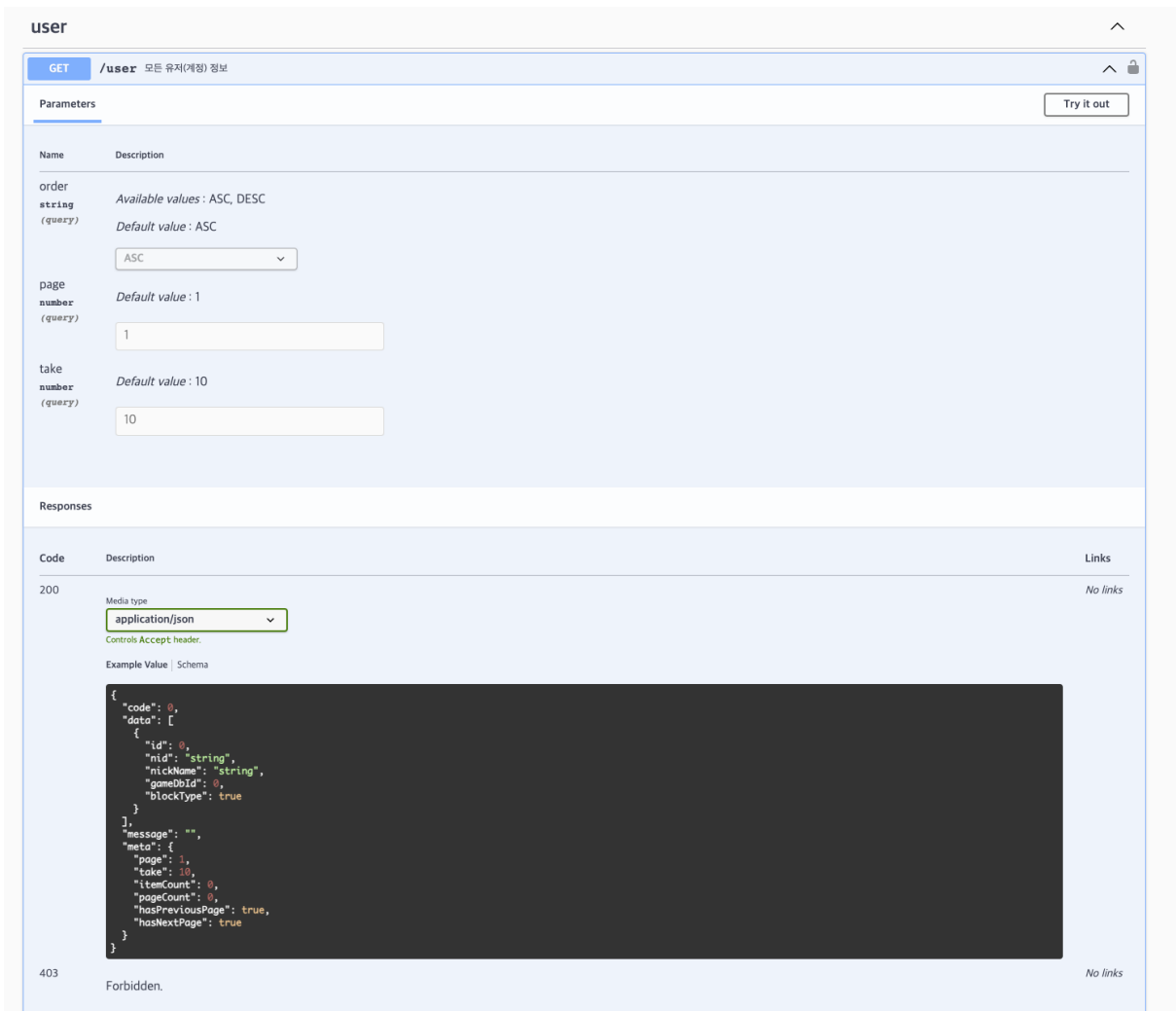


다음과 같이 Swagger 를 사용하여 Api 문서화를 진행 하였습니다.



전체 조회 시 Pagination 적용하는 부분



Controller 부분

```

@Get( path: '/' )
@ApiResponseBody( options: {
    type: UserDto,
    isPagination: true,
    summary: '모든 유저(계정) 정보',
})
async getUsers(
    @Query() pageOptionsDto: PageOptionsDto,
): Promise<ResponseBody<UserDto[]>> {
    const [findUsersOutDto, pageMetaDto] = await this.userService.getUsers(
        pageOptionsDto,
    );
    return new ResponseEntity<UserDto[]>()
        .ok()
        .body(findUsersOutDto)
        .setPageMeta(pageMetaDto);
}

```

Service 부분

```

async getUsers(
    pageOptionsDto: PageOptionsDto,
): Promise<[UserDto[], PageMetaDto]> {
    const { order, page, take } = pageOptionsDto;
    const skip = (page - 1) * take;
    const [users, itemCount] = await this.userRepository.customFindAndCount(
        take,
        skip,
        order,
    );

    const usersDto = users.map((it) => {
        if (it.gameDbId !== 0) return UserDto.fromEntity(it);
    });

    const pageMetaDto = new PageMetaDto({ pageOptionsDto, itemCount }: { pageOptionsDto, itemCount });
    return [usersDto, pageMetaDto];
}

```

Pagination을 적용한 Repository Method

```
async customFindAndCount(  
  take: number,  
  skip: number,  
  orderBy: 'ASC' | 'DESC',  
) : Promise<[User[], number]> {  
  return await this.createQueryBuilder(alias: 'user')  
    .take(take)  
    .skip(skip)  
    .orderBy(sort: 'user.id', orderBy)  
    .getManyAndCount();  
}
```

메일을 통한 재료 생성 - Controller

```
@Post(path: '/to-mail')  
@ApiResponseEntity(options: {  
  type: MailDto,  
  summary: '재료 생성(메일)',  
})  
async createToMail(  
  @Body() createMaterialInDto: CreateMaterialInDto,  
) : Promise<ResponseEntity<MailDto>> {  
  await this.materialService.checkMaterialData(  
    createMaterialInDto.materialID,  
  );  
  const createMailInDto = new CreateMailInDto();  
  createMailInDto.userId = createMaterialInDto.userId;  
  createMailInDto.mailType = EMailType.None;  
  createMailInDto.goodsType = EGoodsType.Material;  
  createMailInDto.goodsId = createMaterialInDto.materialID;  
  createMailInDto.goodsValue = createMaterialInDto.count;  
  
  const mailDto = await this.mailService.create(createMailInDto);  
  
  return new ResponseEntity<MailDto>().ok().body(mailDto);  
}
```

Sharding 되어 있는 Game DB에 접근 하기 위해 Typeorm Module을 커스텀 해서 사용하였습니다 (getCustomRepository 부분)

```
async create(createMailInDto: CreateMailInDto): Promise<MailDto> {
  const user = await this.userRepository.findById(createMailInDto.userId);
  if (!user) {
    throw new InternalServerErrorException(
      InternalErrorCode.USER_NOT_FOUND,
      description: 'USER_NOT_FOUND',
    );
  }
  const mailRepository = getCustomRepository(
    MailRepository,
    gameTypeOrmModuleOptions[user.gameDbId].database,
  );
  const mail = await mailRepository.save(createMailInDto);

  return MailDto.fromEntity(mail);
}
```