Final Project Development Journal

(This document is a journal of the development process that I made day by day.)

First Week

04.07.2024

LogMessage class implemented for logging and debugging purposes. This class is colorizing the errors and exceptions as red, and success messages or info as green.

```
UserService : User created = aliveli@gmail.com

UserService : User already exists = aliveli@gmail.com

UserService : All users fetched

O where u1_0.id=?

UserService : User not found with id = 99

O where u1_0.id=?

UserService : User fetched = a@a12.com

O where u1_0.id=?

UserService : User fetched = aliveli@gmail.com

O where u1_0.id=?

UserService : User fetched = aliveli@gmail.com

O where u1_0.id=?

UserService : User fetched = aliveli@gmail.com

O where u1_0.id=?

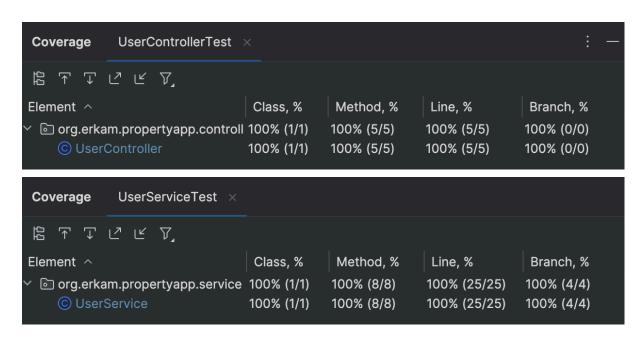
UserService : User fetched = a@a12.com
```

Global Exception Handler and Error Details classes implemented.

SwaggerUI implemented.



Unit tests of User Service and User Controller added at the beginnings of the project.

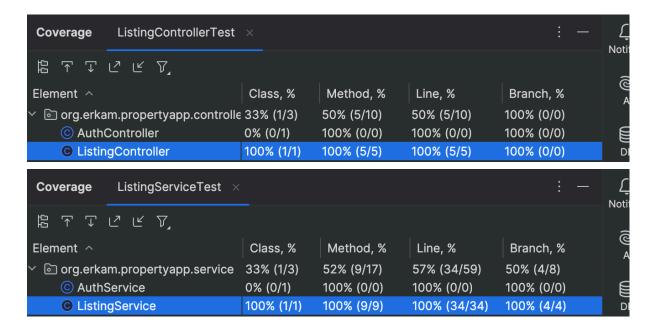


07.07.2024

Listing controller, service and repository added.

```
@RequiredArgsConstructor
public class ListingService {
   private final ListingRepository listingRepository;
   // TODO: Implement a check mechanism to know is there any duplicate
       of this listing in database
   public GenericResponse<ListingSaveResponse> save(ListingSaveRequest request) { 1usage new*
        // TODO: Check here and throw an exception if any duplicate exists
       listingRepository.save(ListingConverter.toListing(request));
       log.info(LogMessage.generate(MessageStatus.POS, ListingSuccessMessage.LISTING_CREATED, request.getTitle()));
       return GenericResponse.success(ListingSaveResponse.of(request));
   public GenericResponse<List<ListingGetResponse>> getAll() { 1 usage new *
        List<Listing> listings = listingRepository.findAll();
        if (listings.isEmpty()) {
            log.error(LogMessage.generate(MessageStatus.NEG, ListingExceptionMessage.NO_DATA_ON_DATABASE));
           throw new ListingException.NoDataOnDatabaseException(ListingExceptionMessage.No_DATA_ON_DATABASE);
        log.info(LogMessage.generate(MessageStatus.POS, ListingSuccessMessage.ALL_LISTINGS_FETCHED));
        return GenericResponse.success(ListingConverter.toListingGetResponseList(listings));
```

Listing controller and service unit tests added.



```
✓ Tests passed: 8 of 8 tests - 623 ms

/Library/Java/JavaVirtualMachines/temurin-17.jdk/Contents/Home/bin/java ...

16:21:11.827 [main] INFO org.erkam.propertyapp.service.ListingService -- Listing deleted with id = 6532

16:21:11.840 [main] ERROR org.erkam.propertyapp.service.ListingService -- Listing not found with id = 1

16:21:11.845 [main] ERROR org.erkam.propertyapp.service.ListingService -- Duplicate Listing found = VRKIDZEQUD

16:21:11.848 [main] ERROR org.erkam.propertyapp.service.ListingService -- Listing not found with id = 1

16:21:11.850 [main] ERROR org.erkam.propertyapp.service.ListingService -- No data found on database

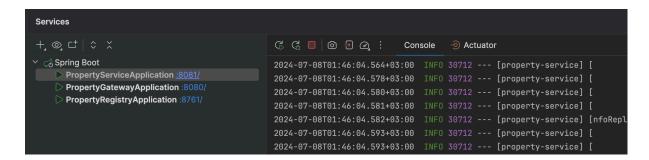
16:21:11.852 [main] INFO org.erkam.propertyapp.service.ListingService -- All Listings fetched

16:21:11.856 [main] INFO org.erkam.propertyapp.service.ListingService -- Listing created = DFPCU0G0

16:21:11.860 [main] INFO org.erkam.propertyapp.service.ListingService -- Listing fetched with id = 508

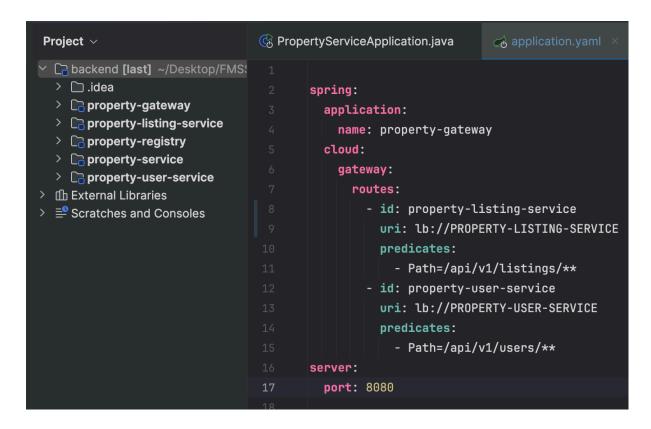
Process finished with exit code 0
```

Gateway and Registry added.



08.07.2024

Listing Service and User Service turned into microservices.



09.07.2024

JWT Authentication implemented. Auth Controller and Auth Service added.

```
{{base_url}}/auth/register
  POST
 Params
                            Headers (9)
                                           Body •
                                                      Pre-request Script
 none
           form-data x-www-form-urlencoded raw binary GraphQL
                                                                                       JSON ~
              "name": "Erkam",
              "email": "erkamkaraca@mail.com",
              "password": "123"
Body Cookies Headers (12) Test Results
  Pretty
                      Preview
                                                JSON V
              "token": "eyJhbGci0iJIUzI1NiJ9.eyJzdWIi0iJlcmthbWthcmFjYUBtYWlsLmNvbSIsI
public class JwtAuthenticationFilter extends OncePerRequestFilter {
   protected void doFilterInternal(
           return;
       // Starting from 7 because of the header starting with "Bearer "
       jwt = authHeader.substring( beginIndex: 7);
       userEmail = jwtService.extractUsername(jwt);
       // if logged in before we do not need to make any filtering again
       if (userEmail != null && SecurityContextHolder.getContext().getAuthentication() == null) {
           UserDetails userDetails = this.userDetailsService.loadUserByUsername(userEmail);
           if (jwtService.isTokenValid(jwt, userDetails)) {
              UsernamePasswordAuthenticationToken authToken = new UsernamePasswordAuthenticationToken(
                      userDetails,
```