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Nhóm: 4

Câu 2:

Quản lý user:

```
public interface IUserService { 2 usages 1 implementation ± ThanhCao18 +1
    UserResponse createUser(UserCreateRequest userCreateRequest); 1 usage 1 implementation ± ThanhCao18
    UserResponse updateUser(int id, UserUpdateRequest userUpdateRequest); 1 usage 1 implementation ± ThanhCao18
    String deleteUser(int id); 1 usage 1 implementation ± ThanhCao18
    List<UserResponse> getAllUsers(); 1 usage 1 implementation ± ThanhCao18
    UserResponse getUserbyId(int id); 1 usage 1 implementation ± DatneO3
}
```

Quản lý Review:

```
public interface IReviewService { 2 usages 1 implementation ± ThanhCao18*
    ReviewResponse addReviewToProduct(int user_id, int product_id, ReviewDTO review); 1 usage
    List<Review> getAllReviews(); 1 usage 1 implementation new*
    Optional<ReviewResponse> getReviewById(int id); no usages 1 implementation new*
    void deleteReviewById(int id); 1 usage 1 implementation new*
    ReviewResponse updateReviewById(int id, ReviewDTO review); 1 usage 1 implementation new*
```

Quản lý Message:

Các hàm xử lý chính:

- 1. User:
- 1.1. Login

#### 1.2. Đăng ký:

```
goverride lusage ± DatneO3
public UserResponse createUser(UserCreateRequest userCreateRequest) {
    if (userRepository.existsByUsername(userCreateRequest.getUsername())) {
        throw new AppException(ErrException.USER_EXISTED);
    }
    if (userRepository.existsByEmail(userCreateRequest.getEmail())) {
        throw new AppException(ErrException.EMAIL_EXISTED);
    }
    User user = userMapper.toUser(userCreateRequest);
    user.setPassword(passwordEncoder.encode(user.getPassword()));
    HashSet<String> roles = new HashSet<>(); // HashSet dâm bâo rằng mỗi vai trò của người dùng là duy nhất,tối ưu hóa các thao tác roles.add(Role.User.name()); // cho phen user them nguoidunamoi user.setRoles(roles);
    if (userCreateRequest.getEmail() != null && !userCreateRequest.getEmail().isEmpty()) {
        String subject = "Welcome to our service";
        String text = "Dear "+userCreateRequest.getUsername()+","+userCreateRequest.getEmail()+","+userCreateRequest.getPassword();
        emailService.sendMessage(userCreateRequest.getEmail(), subject, text);
    }
    return userMapper.toUserResponse(userRepository.save(user));
}
```

# 1.3. Sửa

## 1.5. Lấy user

## 1.6. Quên mật khẩu:

## 1.7. Đổi mật khẩu

#### 2. Message

#### 2.1. Xem danh sách Message

#### 2.2. Gửi tin nhắn:

## 2.3. Sửa xóa tin nhắn

```
@Override 1usage  Datne03
public MessageDTO updateMessage(int id, MessageDTO newMessage) {
    Messages messages = messageRepository.findById(id).orElse( other: null);
    messageMapper.updateMessageDTO(messages, newMessage);
    return messageMapper.toMessageDTO(messageRepository.save(messages));
}

@Override 1usage  Datne03
public void deleteMessage(int id) {
    messageRepository.deleteById(id);
}
```

#### 3. Review

#### 3.1. Thêm review

```
public ReviewResponse addReviewToProduct(int user_id, int product_id, ReviewDTO review) { lusage *Datne03
    Review currentReview = new Review();
    if (userRepository.existsById(user_id)) {
        if (productRepository.existsById(product_id)) {
            currentReview.setRating(review.getRating());
            currentReview.setComment(review.getComment());
            currentReview.setProduct(productRepository.findById(product_id).get());
            currentReview.setUser(userRepository.findById(user_id).get());
        }
    }
    return reviewMapper.toReviewResponse(reviewRepository.save(currentReview));
}
```

## 3.2. Xem review

## 3.3. Xóa sửa review

## 4. Email

```
public class EmailService {
    JavaMailSender mailSender;

public void sendMessage(String to, String subject, String text) { 2 usages ± DatneO3
    SimpleMailMessage message = new SimpleMailMessage();
    message.setTo(to);
    message.setSubject(subject);
    message.setText(text);
    mailSender.send(message);
}
```