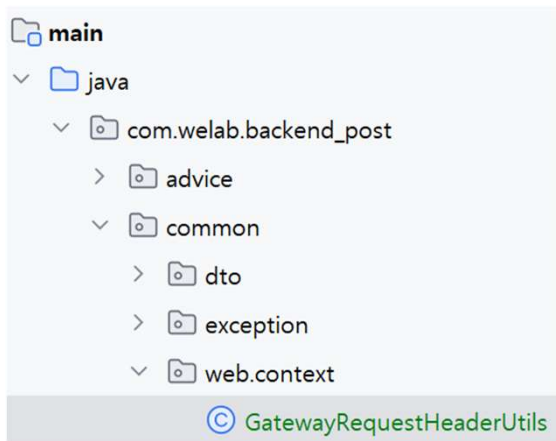


서비스 로직 작성

Post Service 기능 구현

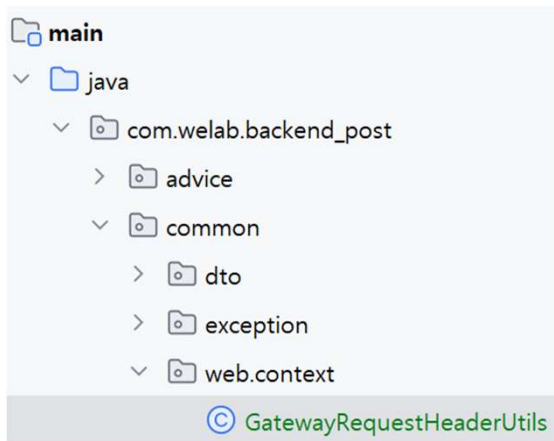
Post 프로젝트 코드 작성 – GatewayRequestHeaderUtils



```
public class GatewayRequestHeaderUtils {  
    public static String getRequestHeaderParamAsString(String key) {  
        ServletRequestAttributes requestAttributes =  
            (ServletRequestAttributes) RequestContextHolder.currentRequestAttributes();  
        return requestAttributes.getRequest().getHeader(key);  
    }  
}
```

API Gateway에서 추가한 헤더 값을 추출하는 Util 함수
User 서비스와 동일하게 구성

Post 프로젝트 코드 작성 – GatewayRequestHeaderUtils (계속)



```
public static String getUserId() {
    String userId = getRequestParamAsString("X-Auth-UserId");
    if (userId == null) {
        return null;
    }

    return userId;
}

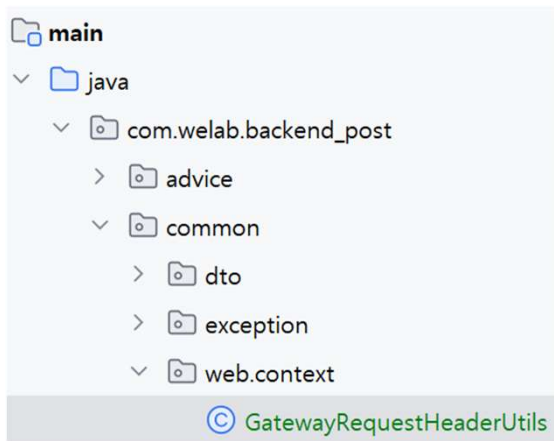
public static String getClientDevice() {
    String clientDevice = getRequestParamAsString("X-Client-Device");
    if (clientDevice == null) {
        return null;
    }

    return clientDevice;
}

public static String getClientAddress() {
    String clientAddress = getRequestParamAsString("X-Client-Address");
    if (clientAddress == null) {
        return null;
    }

    return clientAddress;
}
```

Post 프로젝트 코드 작성 – GatewayRequestHeaderUtils (계속)



```
public static String getUserIdOrThrowException() {
    String userId = getUserId();
    if (userId == null) {
        throw new NotFound("헤더에 userId 정보가 없습니다.");
    }

    return userId;
}

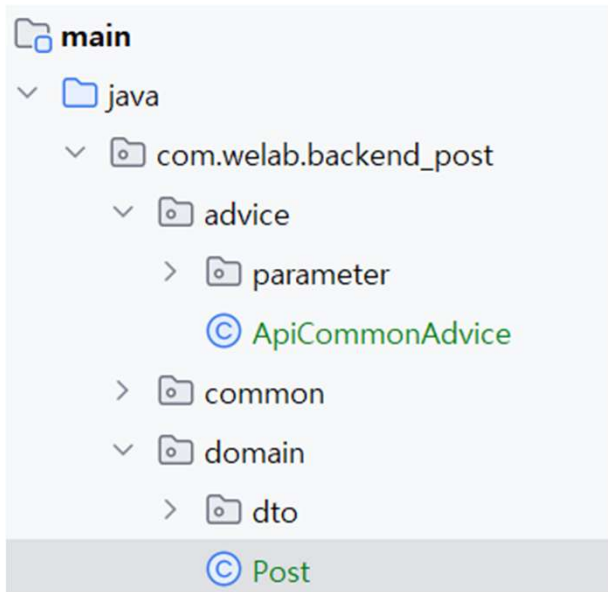
public static String getClientDeviceOrThrowException() {
    String clientDevice = getClientDevice();
    if (clientDevice == null) {
        throw new NotFound("헤더에 사용자 디바이스 정보가 없습니다.");
    }

    return clientDevice;
}

public static String getClientAddressOrThrowException() {
    String clientAddress = getClientAddress();
    if (clientAddress == null) {
        throw new NotFound("헤더에 사용자 IP 주소 정보가 없습니다.");
    }

    return clientAddress;
}
}
```

Post 프로젝트 코드 작성 – Post Entity



```
@Slf4j
@Entity
@Table(name = "post",
    indexes = {
        @Index(columnList = "user_id"),
        @Index(columnList = "created_datetime"),
        @Index(columnList = "updated_datetime")
    })
public class Post {
    @Id
    @Column(name = "id")
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    @Getter
    @Setter
    private Long id;

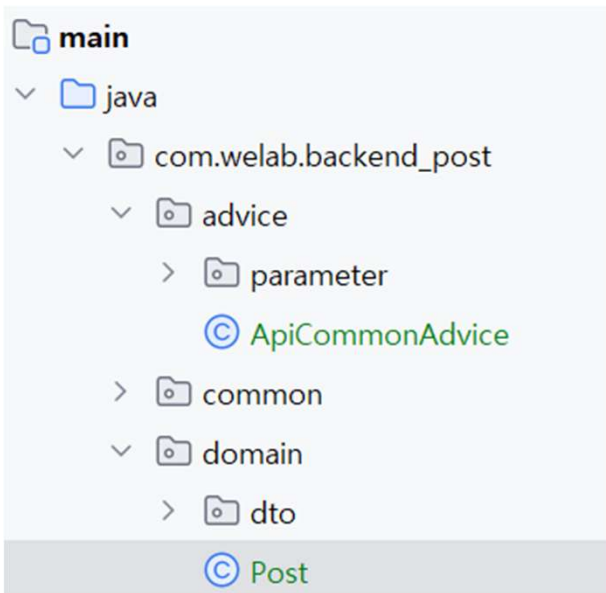
    @Column(name = "title", nullable = false)
    @Getter
    private String title;

    @Column(name = "content", nullable = false)
    @Getter
    private String content;
```

자주 조회하는 데이터를 인덱스로 지정
(테이블 조회를 빨리 하기 위함)

Post 프로젝트 코드 작성 – Post Entity (계속)

업데이트된 시간
= setPost 메소드가 호출된 시간



Post ,
가
DB

```
public void setPost(String title, String contents) {  
    this.title = title;  
    this.content = contents;  
    this.updatedDatetime = LocalDateTime.now();  
}
```

```
@Column(name = "user_id", nullable = false)
```

```
@Getter
```

```
@Setter
```

```
private String userId;
```

```
@Column(name = "created_datetime", nullable = false)
```

```
@Getter
```

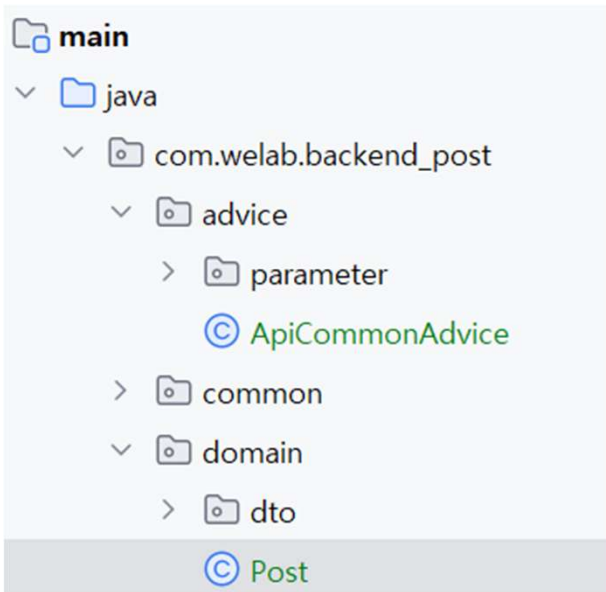
```
private LocalDateTime createdDatetime = LocalDateTime.now();
```

```
@Column(name = "updated_datetime")
```

```
@Getter
```

```
private LocalDateTime updatedDatetime;
```

Post 프로젝트 코드 작성 – Post Entity (계속)



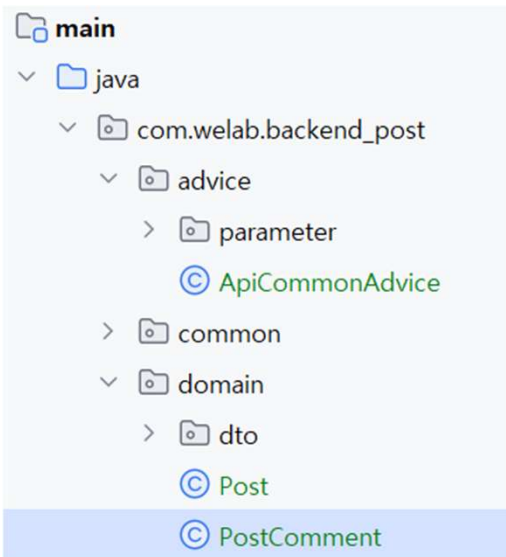
```
@OneToMany(mappedBy = "post", fetch = FetchType.LAZY)
private List<PostComment> comments = new ArrayList<>();

public List<PostComment> getComments() {
    return this.comments;
}

public void addComment(PostComment comment) {
    comment.setPost(this);
    this.comments.add(comment);
}
```

영속성 컨텍스트에서 DB와의
데이터 동기화를 위해 추가
(편의성 및 안정성 ↑)

Post 프로젝트 코드 작성 – PostComment Entity



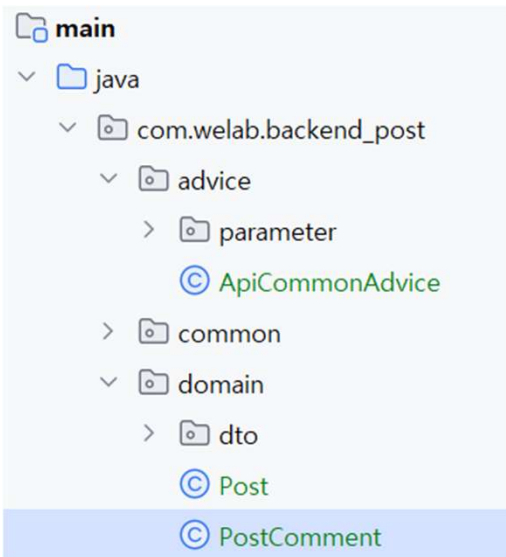
```
@Slf4j
@Entity
@Table(name = "post_comment",
    indexes = {
        @Index(columnList = "user_id"),
        @Index(columnList = "created_datetime"),
        @Index(columnList = "updated_datetime")
    })
public class PostComment {
    @Id
    @Column(name = "id")
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    @Getter
    @Setter
    private Long id;

    @Column(name = "comment", nullable = false)
    @Getter
    private String comment;

    public void setComment(String comment) {
        this.comment = comment;
        this.updatedDatetime = LocalDateTime.now();
    }
}
```

setComment() 호출 시,
업데이트 일자를 호출한 시간으로 설정

Post 프로젝트 코드 작성 – PostComment Entity (계속)



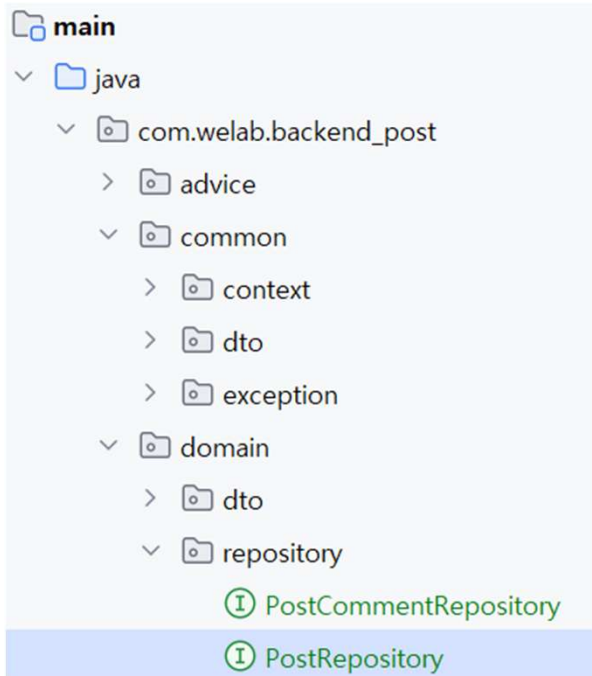
```
@Column(name = "user_id", nullable = false)
@Getter
@Setter
private String userId;

@Column(name = "created_datetime", nullable = false)
@Getter
private LocalDateTime createdDatetime = LocalDateTime.now();

@Column(name = "updated_datetime")
@Getter
private LocalDateTime updatedDatetime;

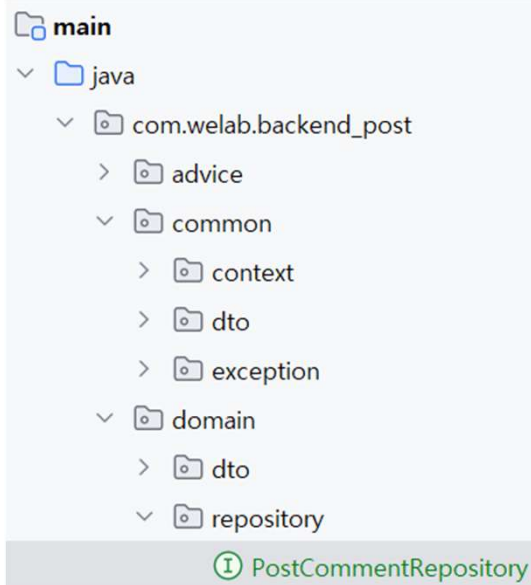
@ManyToOne(targetEntity = Post.class)
@JoinColumn(name = "post_id", referencedColumnName = "id", nullable =
true)
@Setter
private Post post;
}
```

Post 프로젝트 코드 작성 – PostRepository



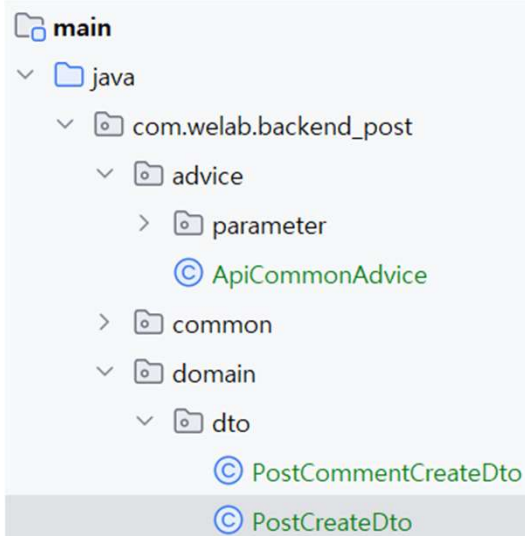
```
@Repository
public interface PostRepository extends JpaRepository<Post, Long> {
    Post findById(String userId);
}
```

Post 프로젝트 코드 작성 – PostCommentRepository



```
@Repository
public interface PostCommentRepository extends JpaRepository<PostComment, Long> {
    PostComment findById(String userId);
}
```

Post 프로젝트 코드 작성 – PostCreateDto



```
@Getter
@Setter
public class PostCreateDto {
    @NotBlank(message = "타이틀을 입력하세요.")
    private String title;

    @NotBlank(message = "본문을 입력하세요.")
    private String content;

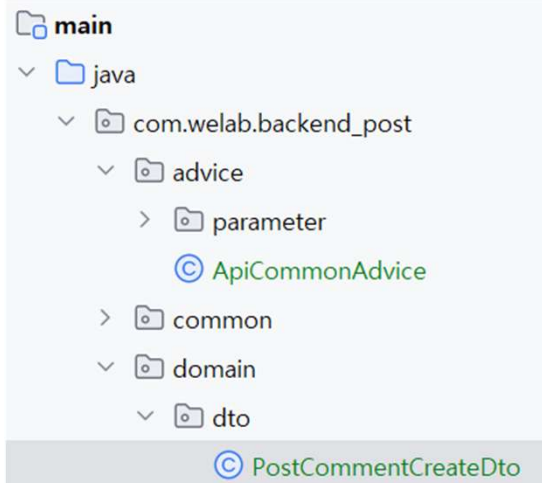
    public Post toEntity() {
        Post post = new Post();

        post.setUserId(GatewayRequestHeaderUtils.getUserIdOrThrowException());
        post.setPost(this.title, this.content);

        return post;
    }
}
```

UserId(GatewayRequestHeaderUtils

Post 프로젝트 코드 작성 – PostCommentCreateDto



```
@Getter
@Setter
public class PostCommentCreateDto {
    @NotNull(message = "포스트 ID를 입력하세요.")
    private Long postId;
```

```
    @NotBlank(message = "댓글을 입력하세요.")
    private String comment;
```

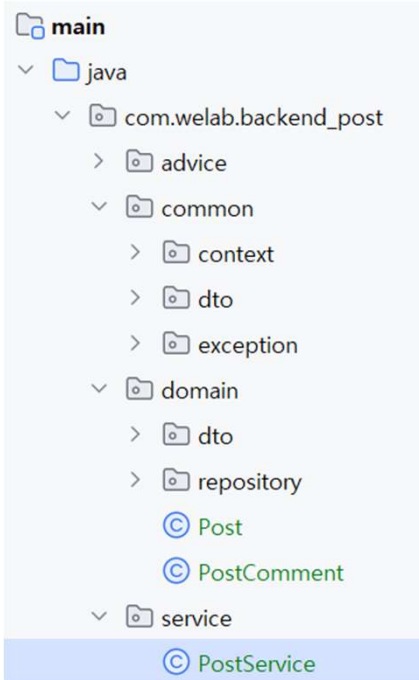
```
    public PostComment toEntity() {
        PostComment postComment = new PostComment();

        postComment.setUserId(GatewayRequestHeaderUtils.getUserIdOrThrowException());
        postComment.setComment(this.comment);

        return postComment;
    }
}
```

UserId(GatewayRequestHeaderUtils

Post 프로젝트 코드 작성 – PostService



```
@Slf4j
@Service
@RequiredArgsConstructor
public class PostService {
    private final PostRepository postRepository;
    private final PostCommentRepository postCommentRepository;
```

```
    @Transactional
    public void createPost(PostCreateDto createDto) {
        Post post = createDto.toEntity();

        postRepository.save(post);
    }
```

게시글 생성

```
    @Transactional
    public void addPostComment(PostCommentCreateDto createDto) {
        Post post = postRepository.findById(createDto.getPostId())
            .orElseThrow(() -> new NotFound("포스팅 글을 찾을 수 없습니다.));

        PostComment postComment = createDto.toEntity();
        postCommentRepository.save(postComment);

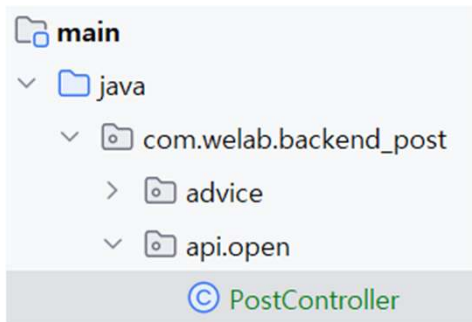
        post.addComment(postComment);
    }
```

댓글 작성

DB

DB 가 Post
PostComment

Post 프로젝트 코드 작성 – PostController



```
@Slf4j
@RestController
@RequestMapping(value = "/api/post/v1", produces = MediaType.APPLICATION_JSON_VALUE)
@RequiredArgsConstructor
public class PostController {
    private final PostService postService;

    @PostMapping(value = "/post")
    public ApiResponseDto<String> createPost(@RequestBody @Valid PostCreateDto dto) {
        postService.createPost(dto);
        return ApiResponseDto.defaultOk();
    }

    @PostMapping(value = "/post/comment")
    public ApiResponseDto<String> addComment(@RequestBody @Valid PostCommentCreateDto dto) {
        postService.addPostComment(dto);
        return ApiResponseDto.defaultOk();
    }
}
```

Gateway 프로젝트 설정 추가

```
spring:
  cloud:
    gateway:
      mvc:
        routes: # 라우팅 설정
          - id: backend-user
            predicates: # 라우팅 조건
              - Path=/api/user/**
            uri: lb://backend-user
            filters:
              - AddAuthenticationHeader
          - id: backend-alim
            predicates: # 라우팅 조건
              - Path=/api/alim/**
            uri: lb://backend-alim
            filters:
              - AddAuthenticationHeader
          - id: backend-post
            predicates: # 라우팅 조건
              - Path=/api/post/**
            uri: lb://backend-post
            filters:
              - AddAuthenticationHeader
```

application-local.yml