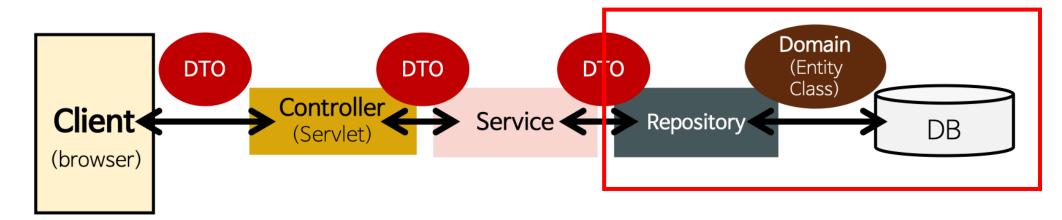
Spring Boot Business Logic

Jae Hyeon Kim

Contents

- 1. Service & DTO
- 2. Test Service

Review : Spring Boot CRUD



Entity

```
jimport lombok.*;
import javax.persistence.*;
jimport java.util.Date;

7개 사용 위치 호kiku99

GData
GBuilder
GAllArgsConstructor
GNoArgsConstructor
GTable(name = "tb_post")

GEntity
public class PostEntity {
```

```
@Id
@GeneratedValue(strategy = GenerationType.IDENTITY)
@Column
private String title;
@Column
private String content;
@Column
private String writer;
@Column
@Column
@Column
@Column
private Date created_date;
@Column
private Date modified_date;
```

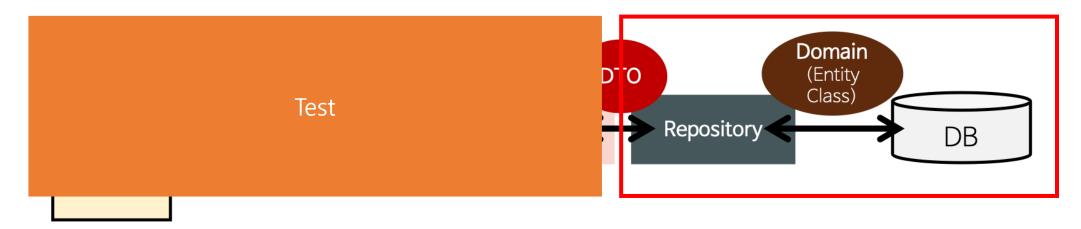
Repository(DAO)

```
import org.springframework.data.jpa.repository.JpaRepository;

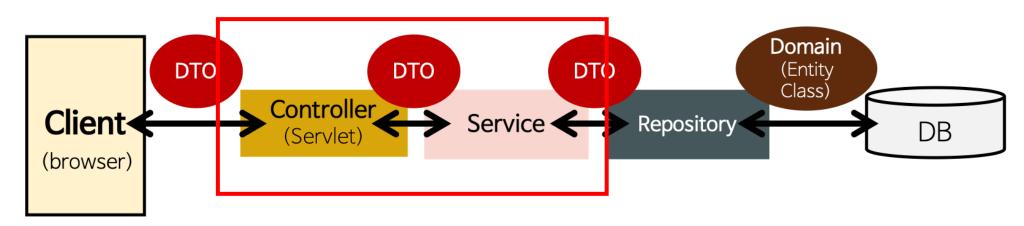
1개 사용 위치 ♣ kiku99

public interface PostRepository extends JpaRepository<PostEntity, Integer> {
}
```

Review: Spring Boot CRUD



- Review : Spring Boot CRUD



Service & DTO

DTO(Data Transfer Object)

• DTO는 계층 간 데이터 교환 역할을 한다. DB에서 꺼낸 데이터를 저장하는 Entity를 가지고 만드는 일종의 Wrapper라고 볼 수 있는데, Entity를 Controller 같은 클라이언트단과 직접 마주하는 계층에 전달하는 대신 DTO를 사용해 데이터를 교환한다.

DTO(Data Transfer Object)



```
@Getter
@NoArgsConstructor
public class PostSaveDto {
   private String title;
    private String content;
    private String writer;
    private Date created_date;
    @Builder
    public PostSaveDto(String title, String content, String writer, Date created_date){
        this.writer = writer;
        this.created_date = created_date;
    public PostEntity toEntity(){
                .writer(writer)
                .created_date(created_date)
```

Service

- Service의 역할은 DAO가 DB에서 받아온 데이터를 전달받아 가공하고 Controller에게 정보를 보내주는 역할
- 실제 비즈니스 로직을 담고있음

Service

```
PostEntityPostRepositoryPostService
```

```
2개 사용 위치 🚨 kiku99 *
@Service
@RequiredArgsConstructor
public class PostService {
    private final PostRepository postRepository;
    2개 사용 위치 ≗ kiku99 *
    @Transactional
    public Long savePost(final PostSaveDto postSaveDto){
        return postRepository.save(postSaveDto.toEntity()).getId();
```

JpaRepository

```
@NoRepositoryBean
public interface CrudRepository<T, ID> extends Repository<T, ID> {
   <S extends T> S save(S entity);
   <S extends T> Iterable<S> saveAll(Iterable<S> entities);
   Optional<T> findById(ID id);
   boolean existsById(ID id);
```

```
post

PostRepositoryTest

PostServiceTest
```

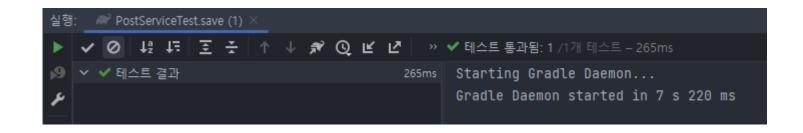
```
@SpringBootTest
public class PostServiceTest {

1개 사용 위치
  @Autowired
  PostService postService;

@Test
  void save() {

    PostSaveDto postSaveDto = new PostSaveDto( title: "my title", content: "my content", writer: "kiku", new Date());
    postService.savePost(postSaveDto);
}

}
```



▼ WHERE				₹ ORDER BY										
	.∰id ≎	∰ title ÷	.⊞ content		🍱 writer		ৣ≣ view_cnt ÷	.⊞ notice_yn		.⊞ delete_yn	÷ 🍱 (reated_date		■ modified_date ÷
1	2	insert test	insert test (content	kiku		θ	θ		0	202	2-11-25 15:45:	43	
2	3	title	content		writer		Θ	0		0	202	2-12-08 00:08:	44	
3	4	my title	my content		kiku		Θ	Θ		0	202	2-12-09 15:24:	15	

