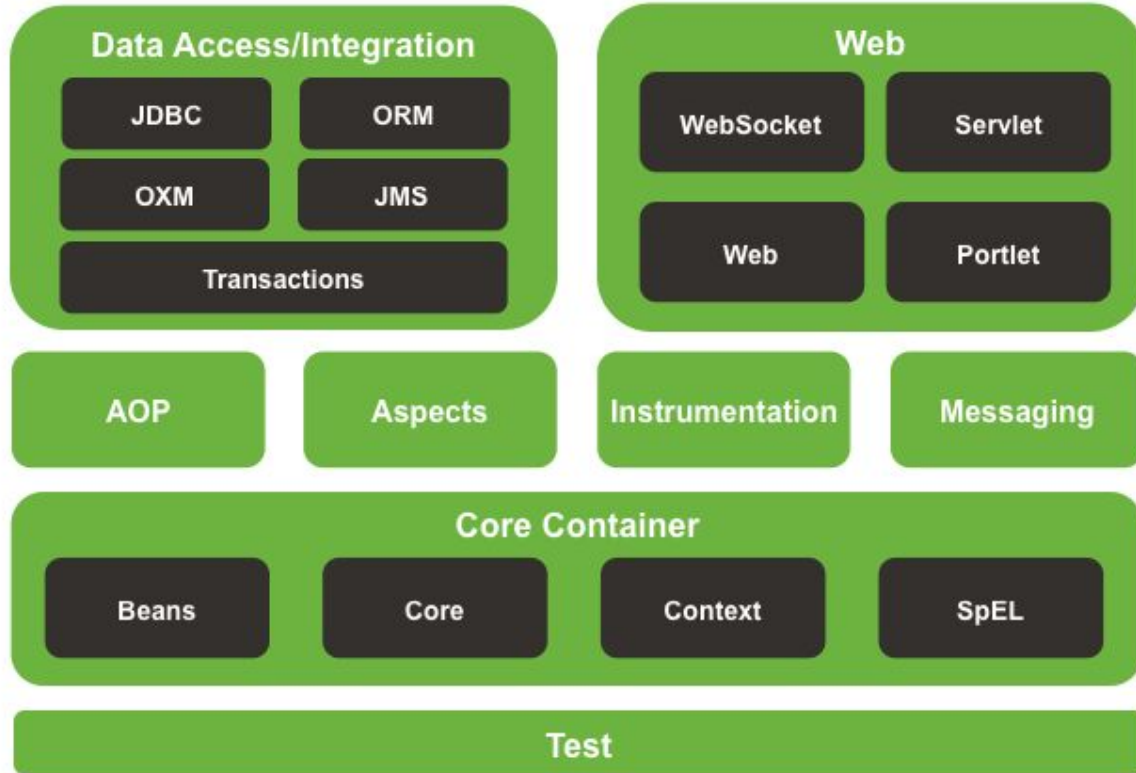


Spring Framework



Spring Framework Runtime



클라이언트 티어 (Client Tier)

클라이언트 기기

서블릿 컨테이너 (Servlet Container)

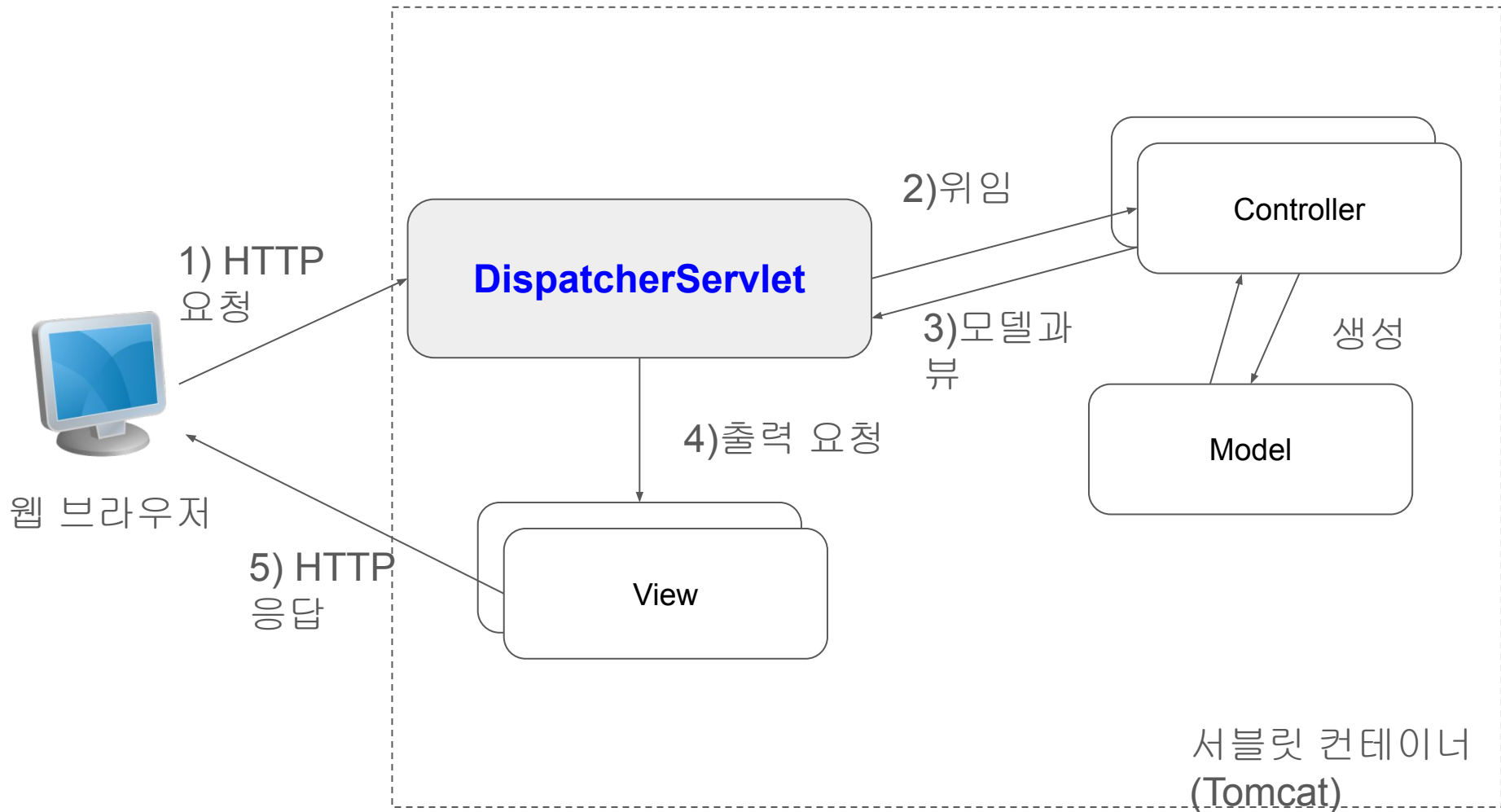
미들 티어 (Middle Tier)

자바 EE 서버

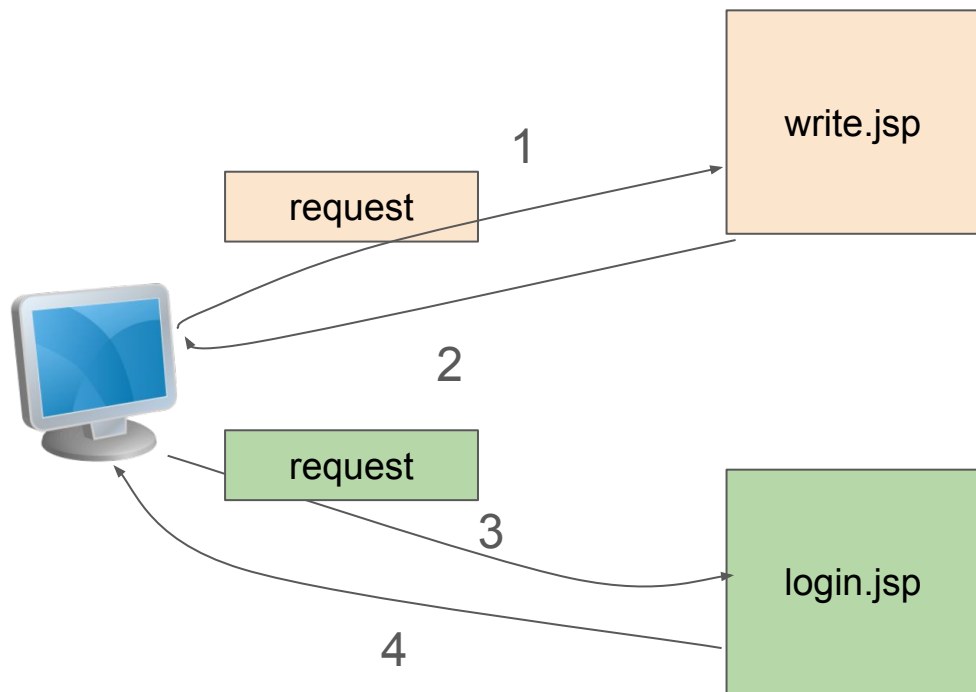
스프링 컨테이너 (Spring Containers)

엔터프라이즈 정보 시스템 티어 (Enterprise Information System, EIS Tier)

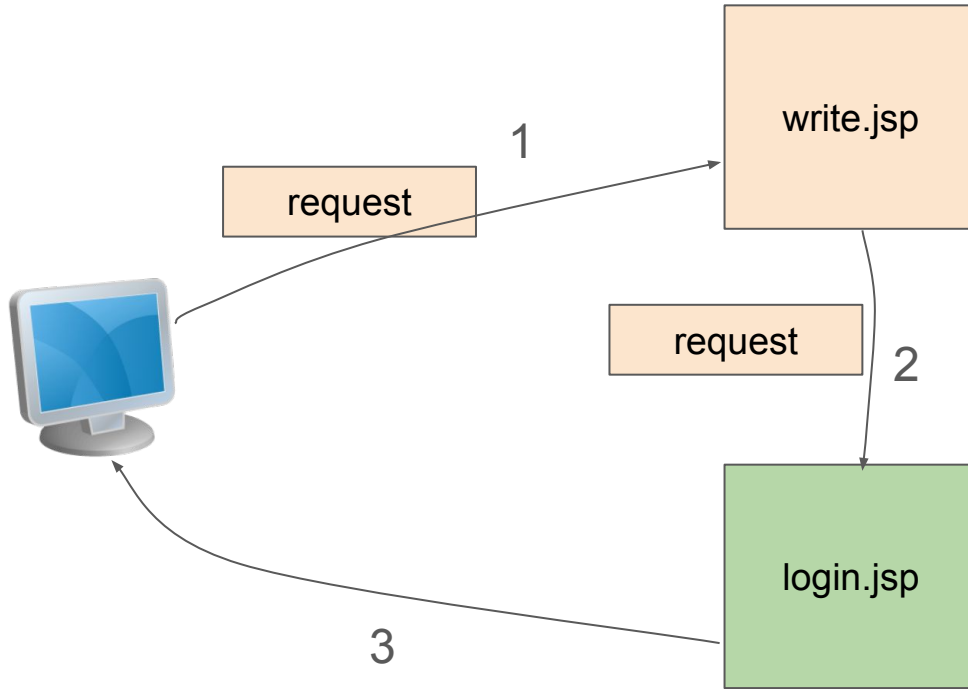
데이터베이스 서버



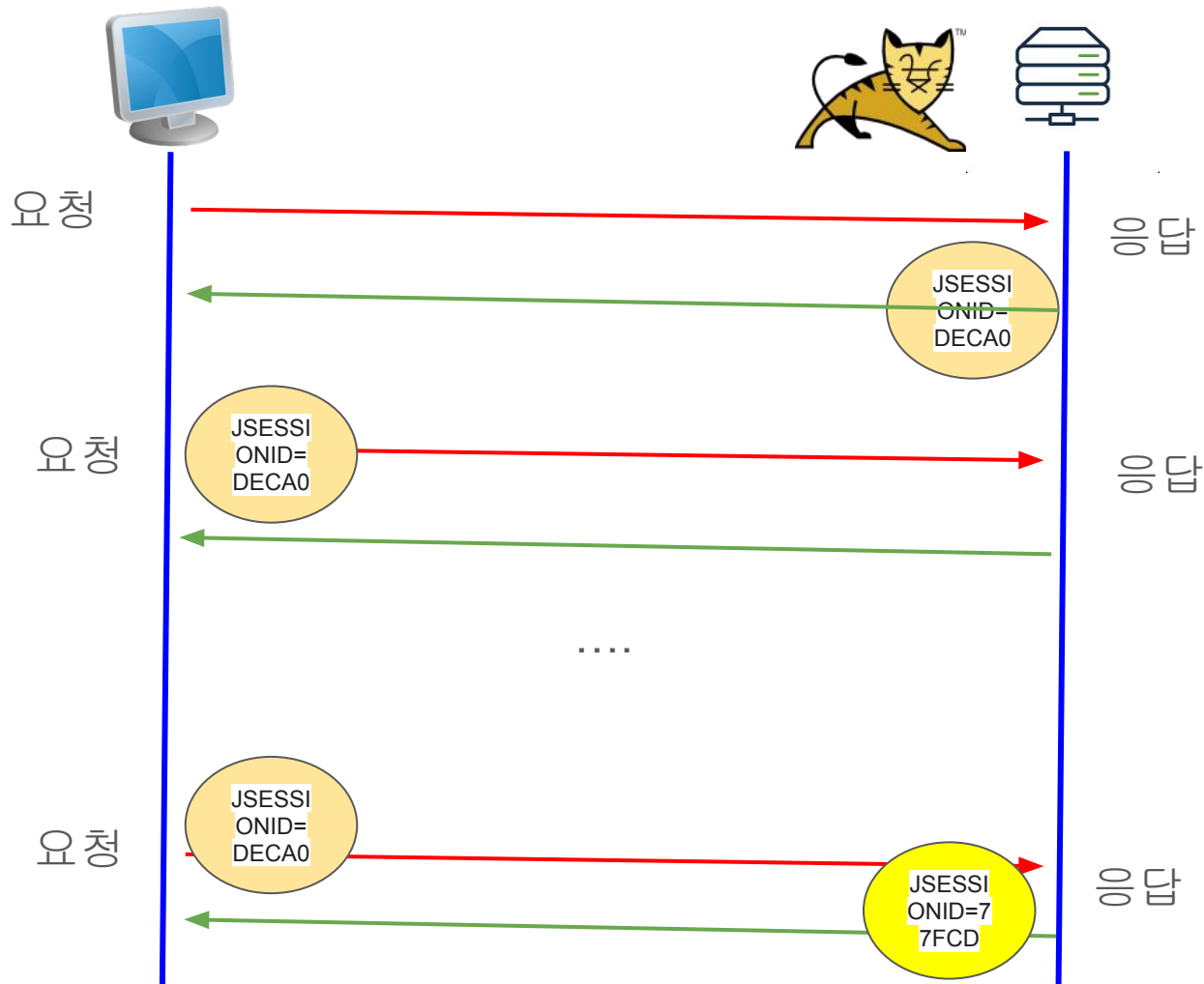
redirect



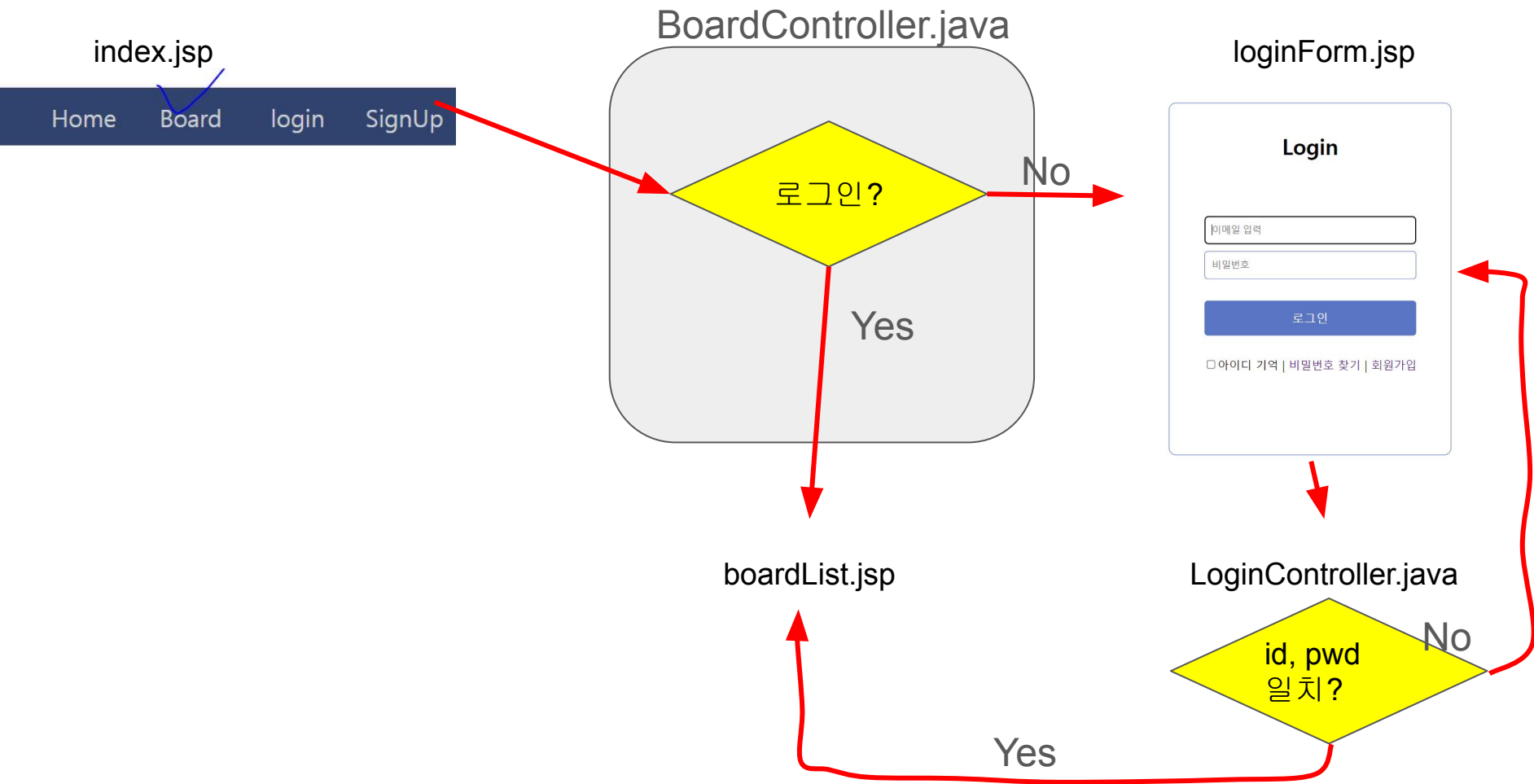
forward

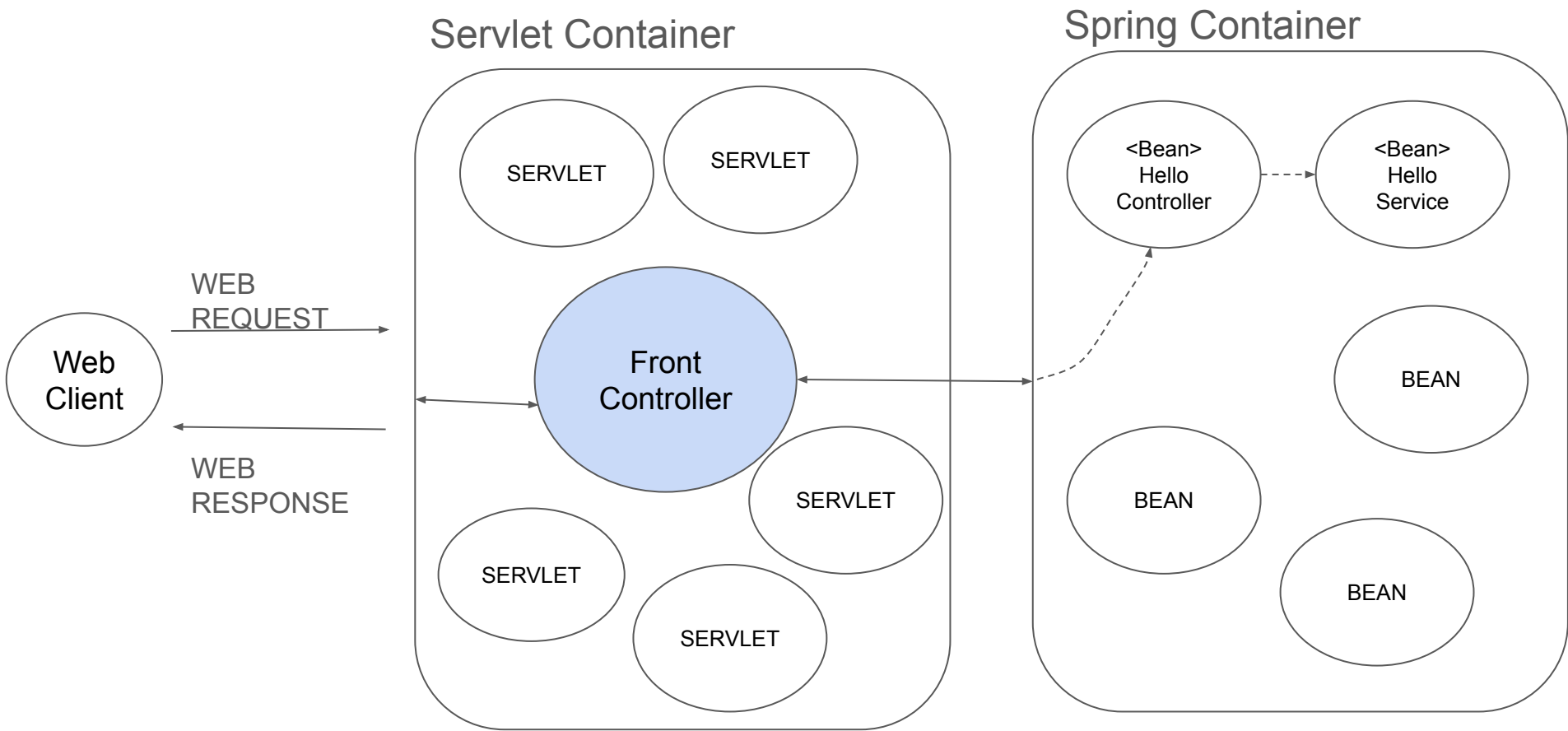


세션



게시판 이용시, 미로그인이면 로그인 화면으로 이동





ApplicationContext

attributes

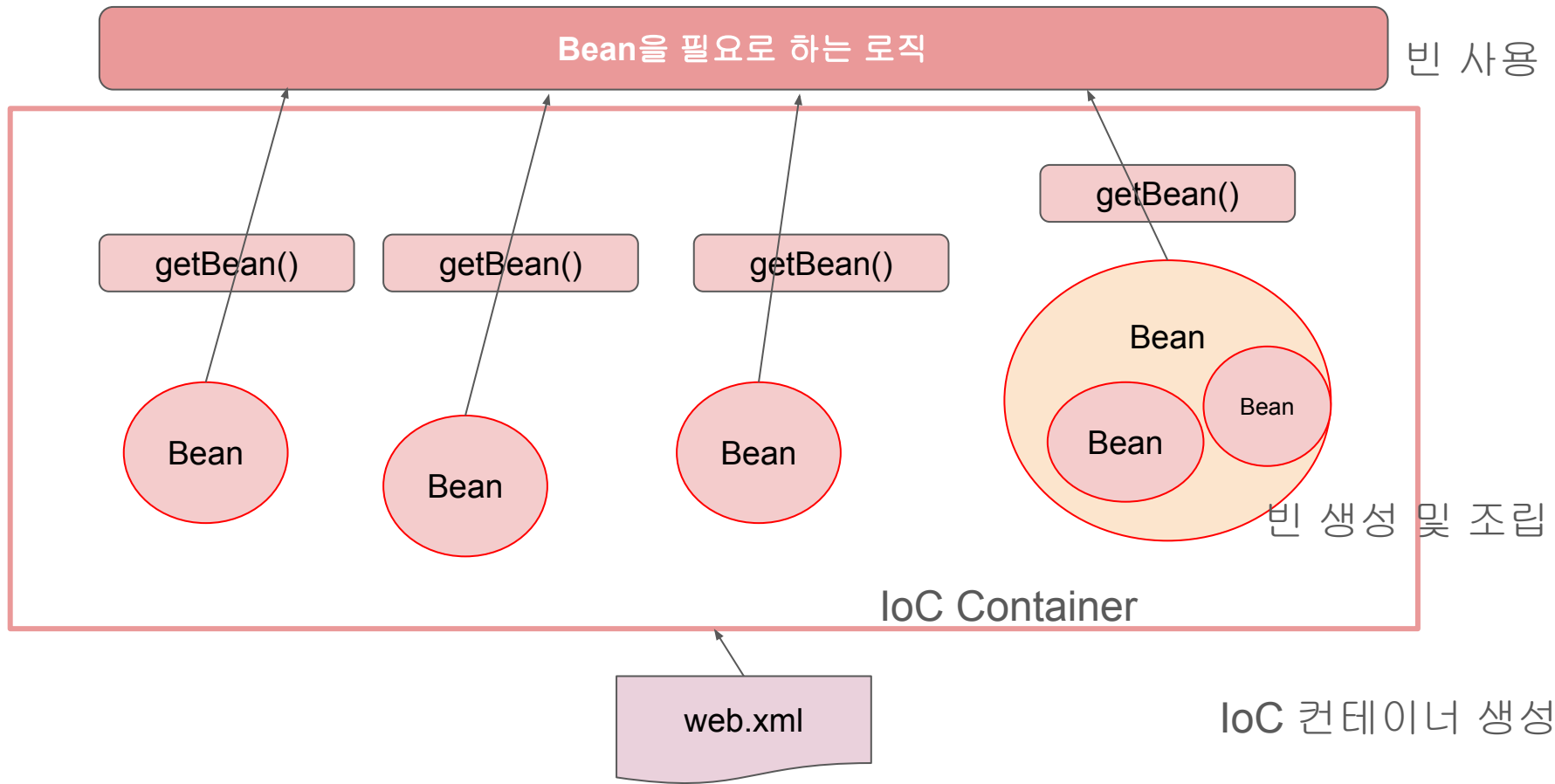
Key	Value

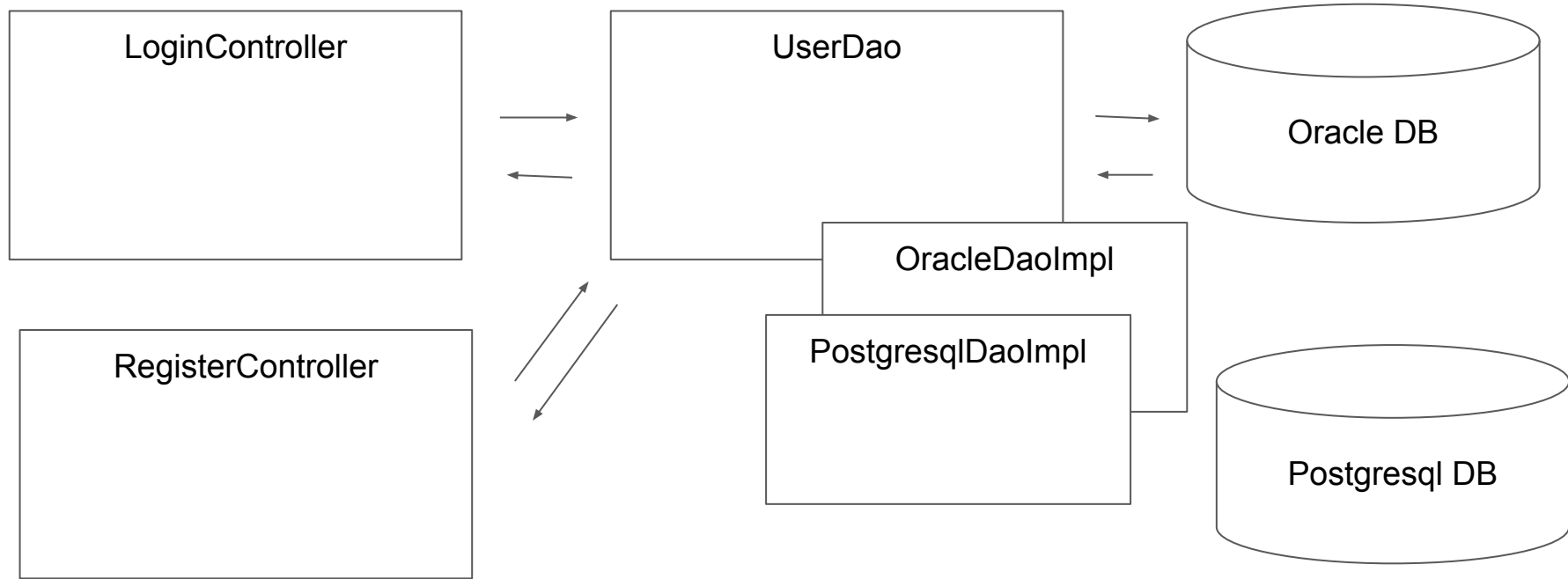
XmlWebApplicationContext

children

Key	Value

XmlWebApplicationContext





Working Directory

Staging Area

Repository

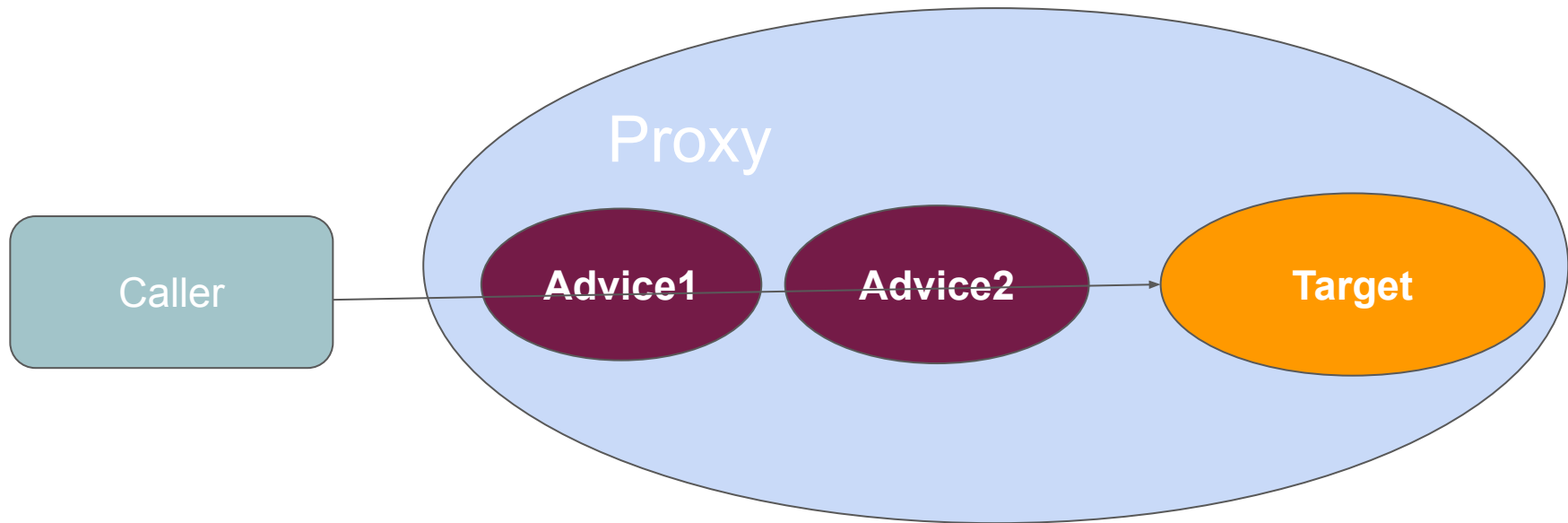
.jpg

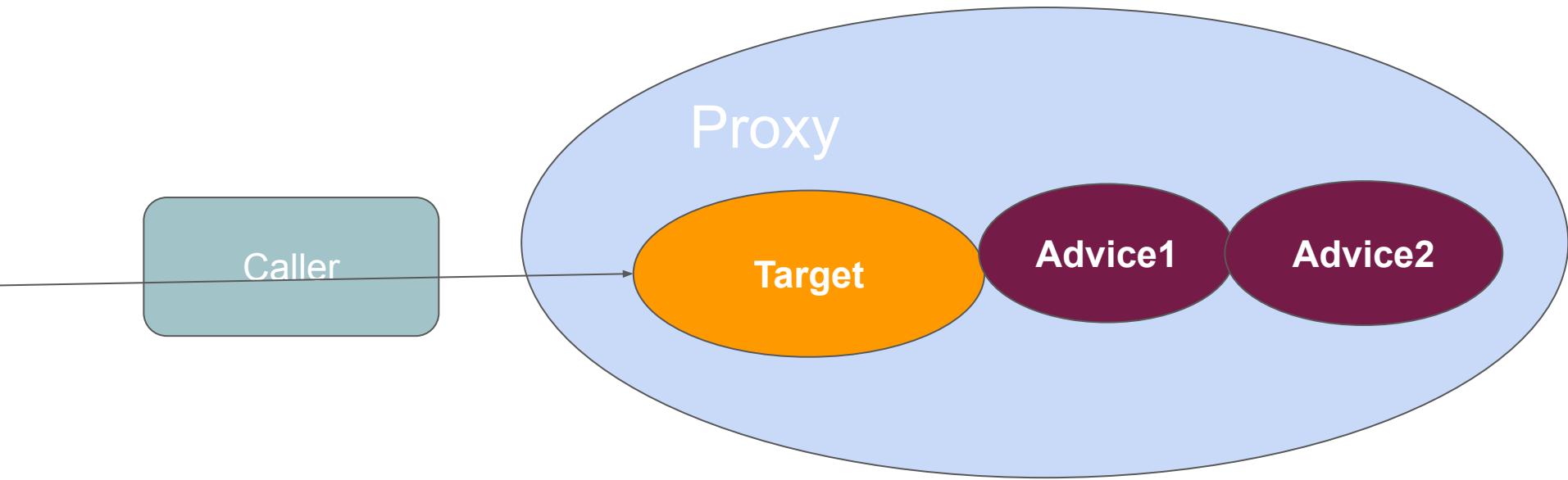
Add about page

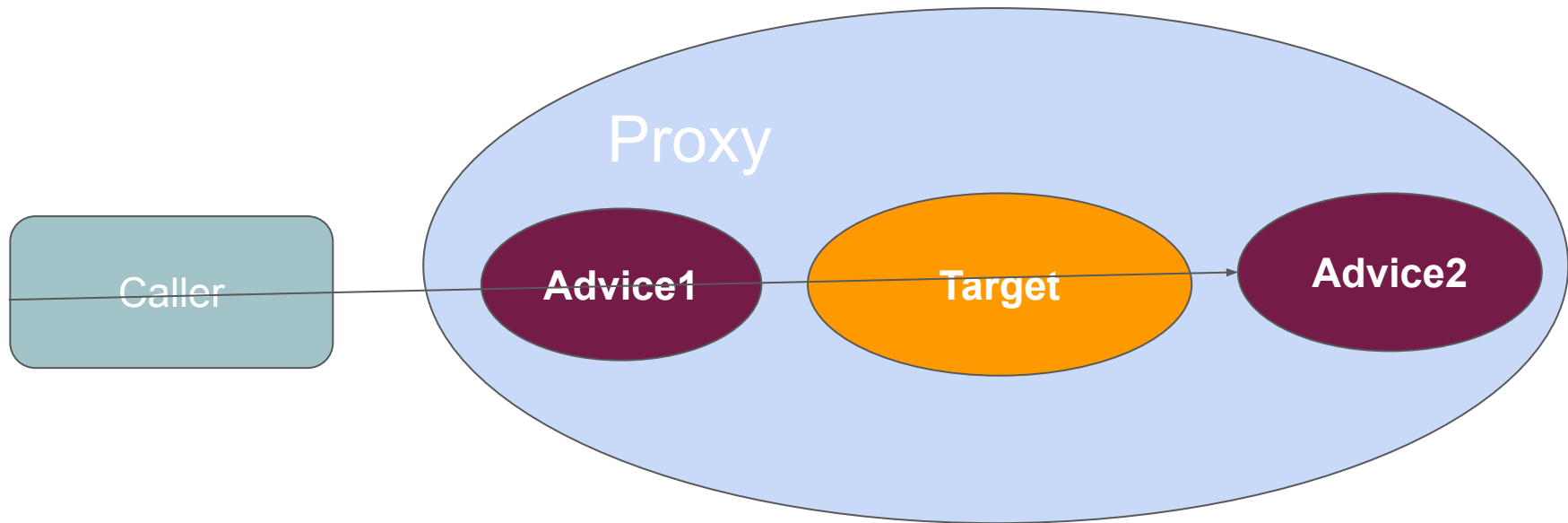
.java

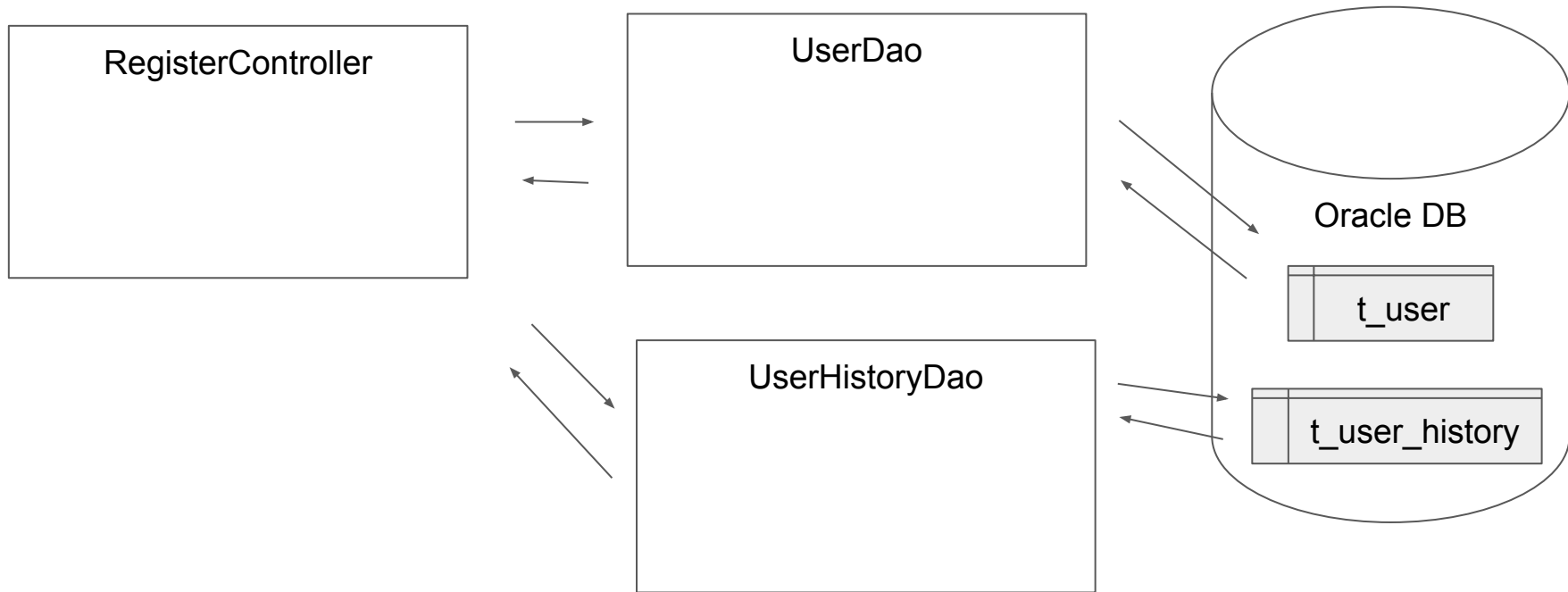
.jsp

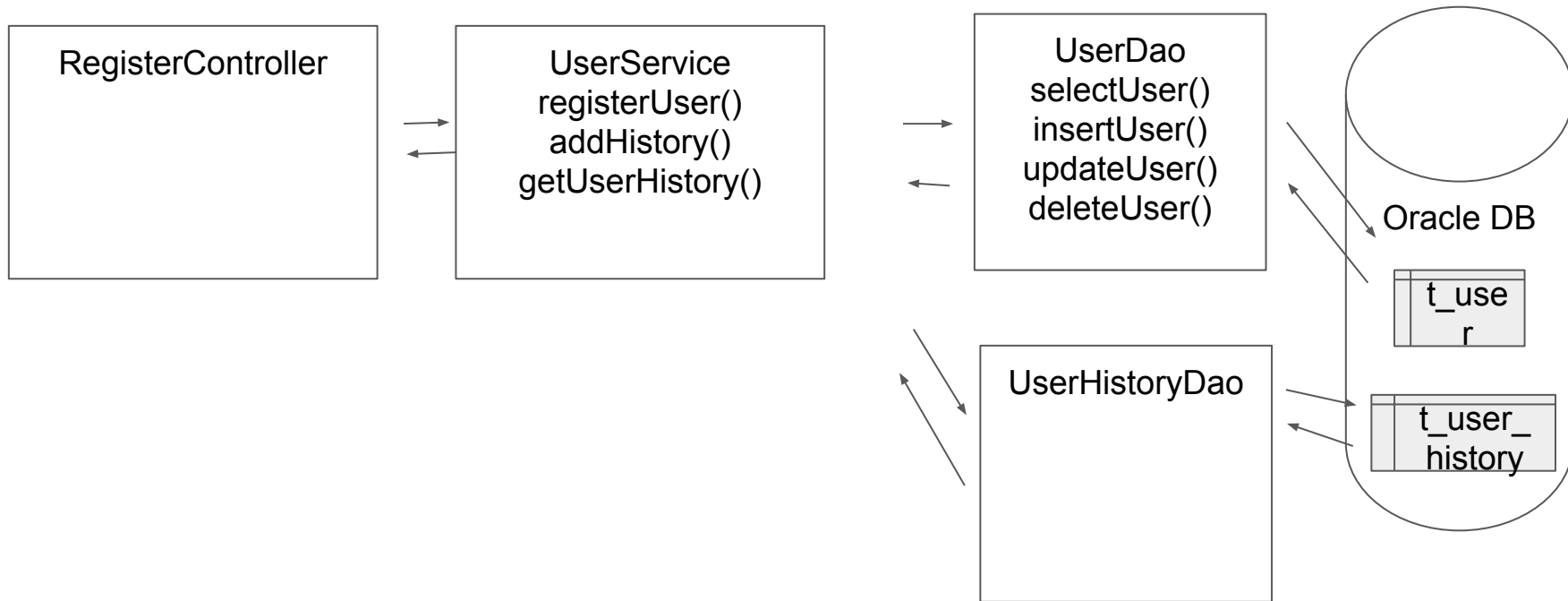
Add navbar page



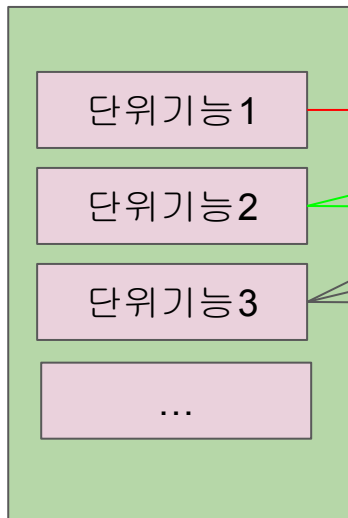




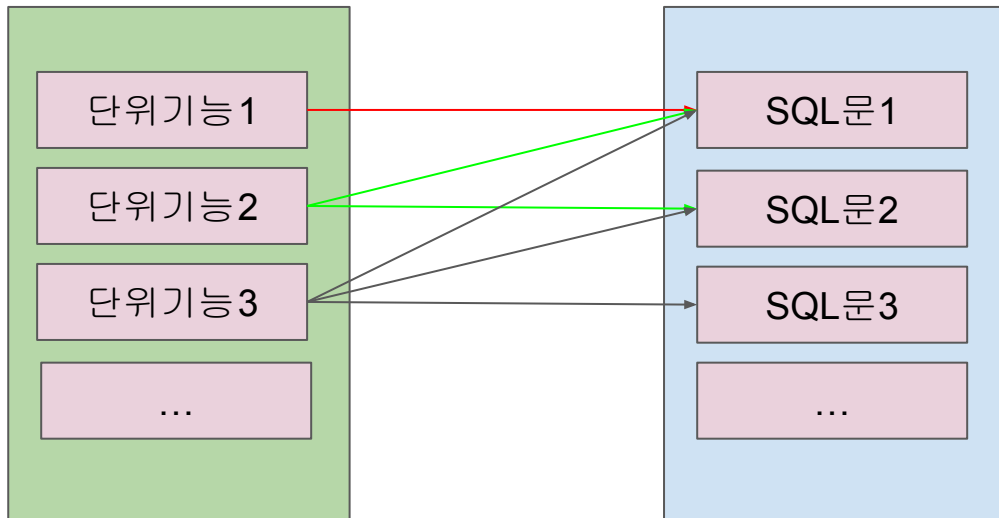
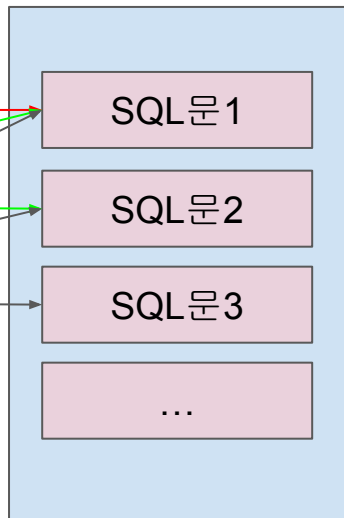




Service



DAO



Tx1 시작

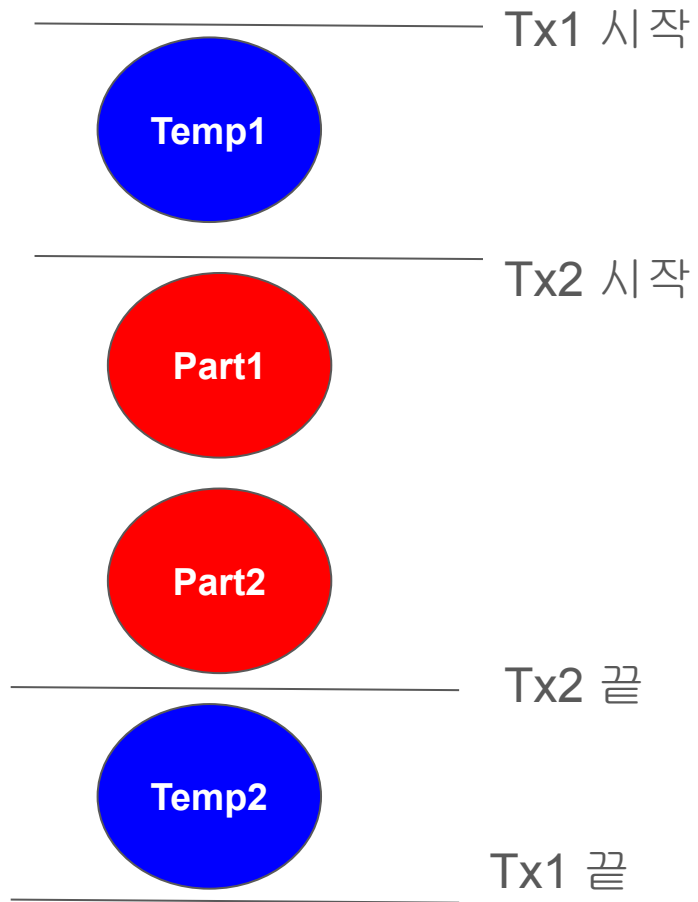
Temp1

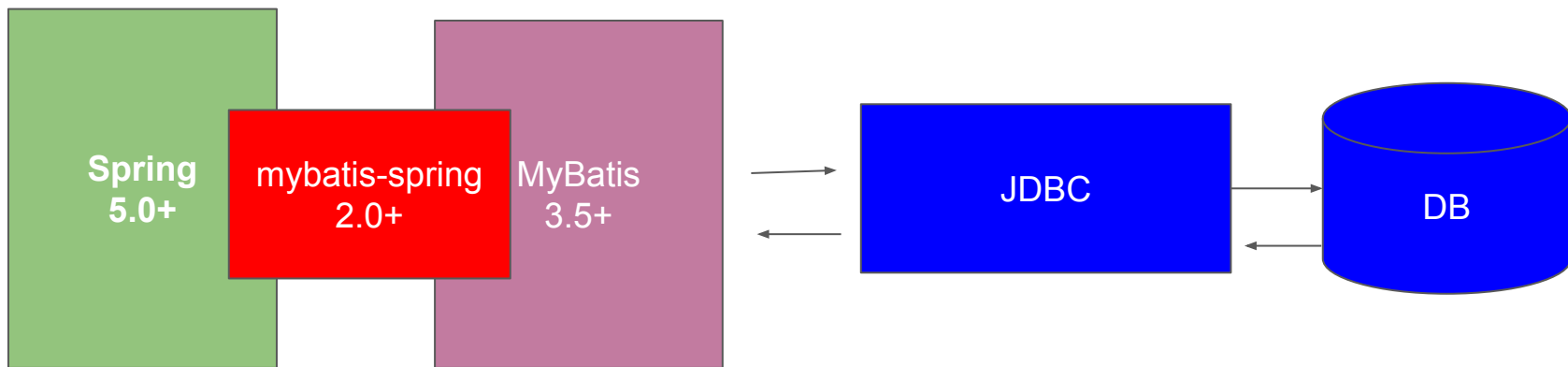
Part1

Part2

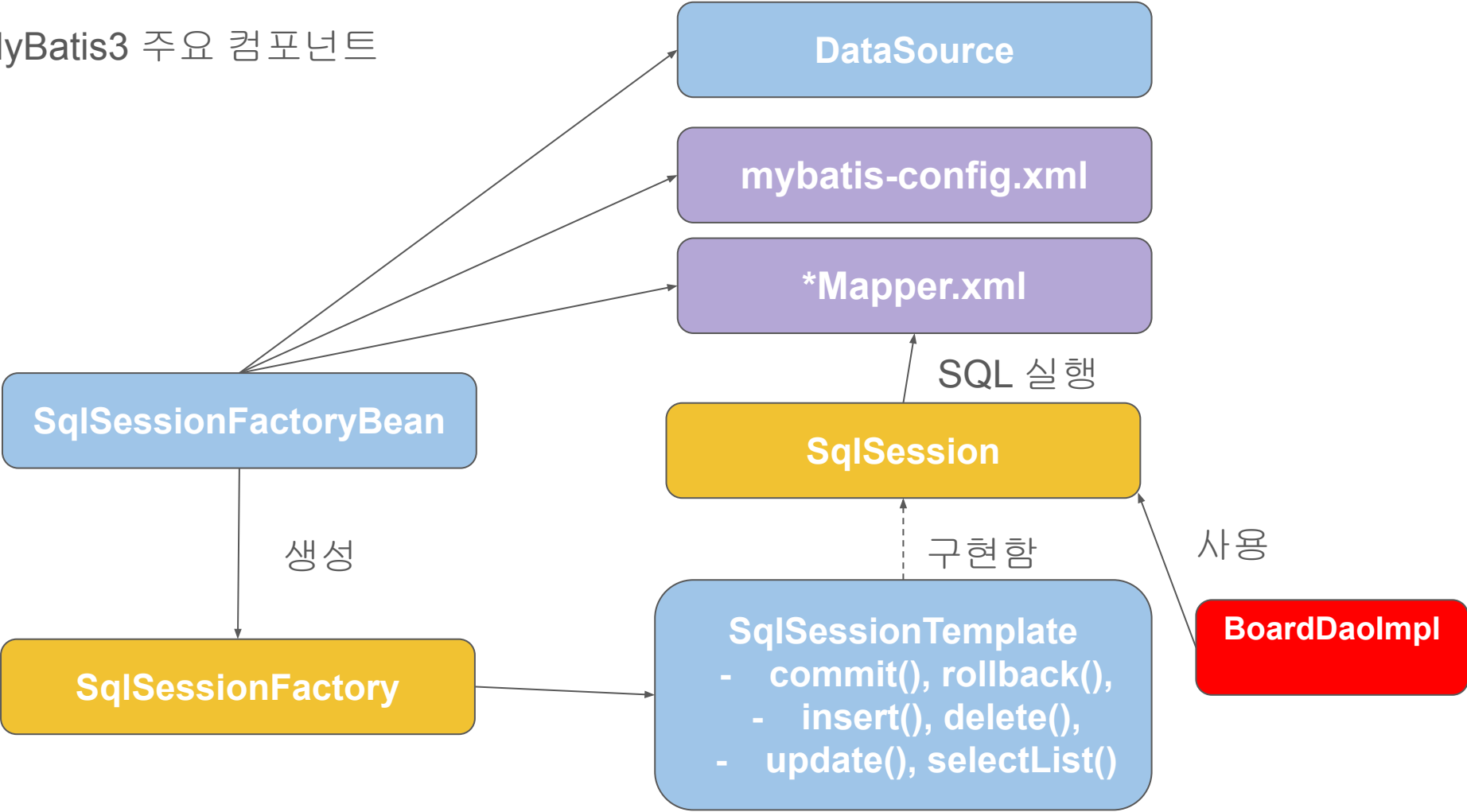
Temp2

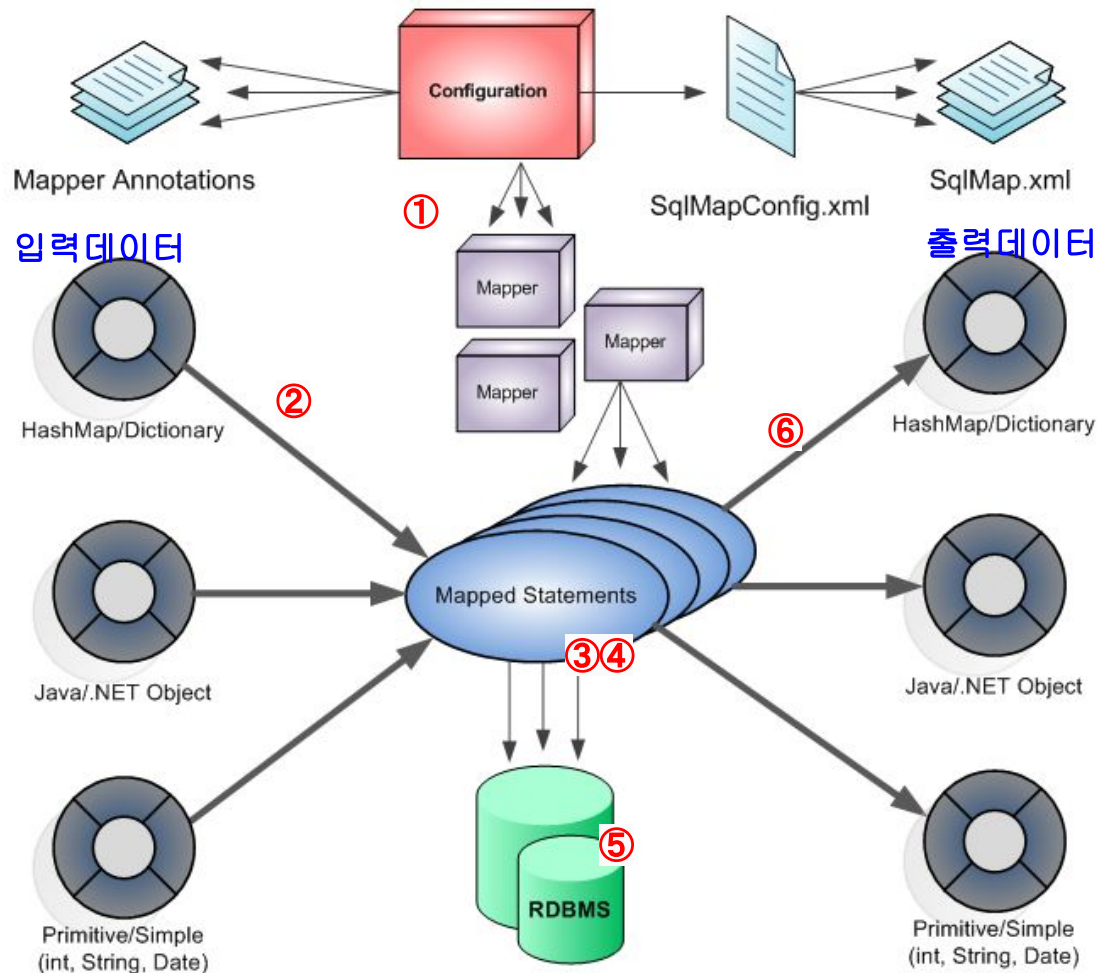
Tx1 끝





MyBatis3 주요 컴포넌트

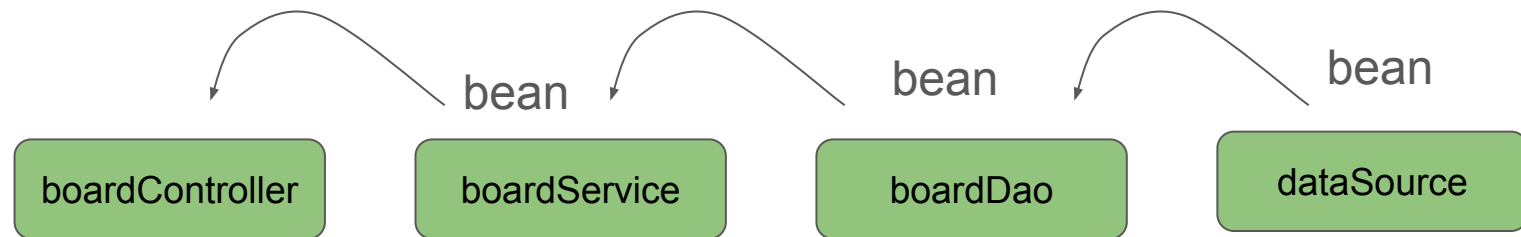




Cloud Native :

- Application
 - **Dev**elopment (개발) ⇒ Docker
- Computing
 - **Ops**erations (운영) ⇒ Kubernetes
- Cloud Computing의 장점(특징)을 최대한 활용할 수 있도록 Application을 구축하고 실행하는 방법

빈 주입 과정



@Controller

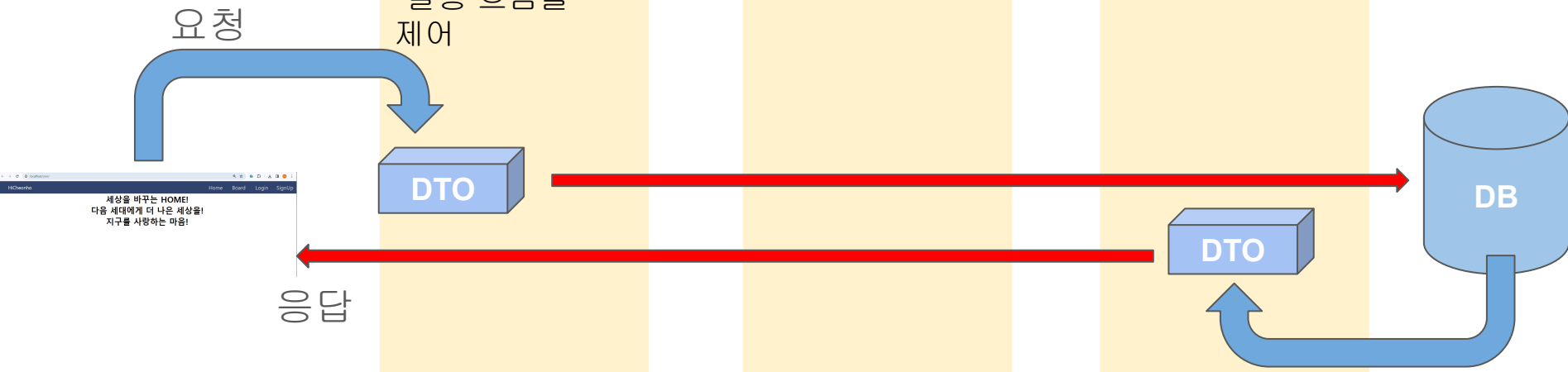
- * 요청과 응답 처리
- * 데이터 유효성 검증
- * 실행 흐름을 제어







@Service

- * 비즈니스 로직 담당
- * 트랜처리 처리

@Repository

- * 순수 Data Access 기능
- * 조회, 등록, 수정, 삭제



제목	작성자	작성일	조회
폭풍쇼핑 [21] 	호빵맨압 	12:37	100
유럽 여행 8개월전 ... [29] 	oroat14 	12:33	75
크로아티아 주변국 중 꼭 가봐야할곳 추천 부탁드립니다 [19] 	소파리 	12:32	61

pageSize

인천공항 초보 저도 유럽 갑니당,,! 🤖 [15] N	민캠퍼 🟢	11:20	124
🌿23차 오픈!!🌿포켓베드 온열매트 2024년형 뉴버전 전격 최저가 공구!!😂 🤖 [14] N	체키럽지기 M	11:05	256
나나투어 제작진 픽 로마 인생 샌드위치 맛집 위치 찾았습니다! 🤖 [26] N	이제웃을일만가득 4	10:59	131
인천공항 사람 이렇게 많은거 처음 봐요 🤖 [25] N	지혜와지혜 3	10:51	245
24년 2,3월 유럽여행 가신다면 신청하세요! 투어라이브 오디오 가이드 무료체험 (~1/21) 🤖 [20] N	체키럽지기 M	10:09	198
부다페스트인, 프라하아웃 루트 문의(15박) [20] N	비델락 3	09:17	63
가장예쁘다는 포르투 맥도날드 다녀왔어요 🤖 [16] N	유럽두달살이 1	08:22	204
스위스에 이탈리아 갈때 기자 질문! [9] N	명중2 2	08:07	50
(항공권 질문) 6월에 파리가고 싶은데요 [10] N	비즈니스 1	07:57	70
스페인 여행(11박12일) 🤖 [10] N	햇살11 1	07:32	110
집떠나온지 3주가지났어요ㅁ [20] N	v북덩이v 1	06:50	142
1/14 바르셀로나 맑음 뒤 흐림 🤖 [7] N	lensiya 2	06:43	121

최근 7일간 작성된 게시물 중 카페 멤버에게 인기가 많았던 게시물 입니다. ?

번호	제목	이름	등록일	조회수
250	Pioneering250	cheonho	2024-01-15	0
249	Pioneering249	cheonho	2024-01-15	0
248	Pioneering248	cheonho	2024-01-15	0
247	Pioneering247	cheonho	2024-01-15	0

/board/read?bno=249&page=3&pageSize=10

offset

row_count

번호	제목	이름	등록일	조회수
250	Pioneering250	cheonho	2024-01-15	0
249	Pioneering249	cheonho	2024-01-15	0
248	Pioneering248	cheonho	2024-01-15	0
247	Pioneering247	cheonho	2024-01-15	0
246	Pioneering246	cheonho	2024-01-15	0
245	Pioneering245	cheonho	2024-01-15	0
244	Pioneering244	cheonho	2024-01-15	0
243	Pioneering243	cheonho	2024-01-15	0
242	Pioneering242	cheonho	2024-01-15	0
241	Pioneering241	cheonho	2024-01-15	0
240	Pioneering240	cheonho	2024-01-15	0
239	Pioneering239	cheonho	2024-01-15	0
238	Pioneering238	cheonho	2024-01-15	0
237	Pioneering237	cheonho	2024-01-15	0
236	Pioneering236	cheonho	2024-01-15	0
235	Pioneering235	cheonho	2024-01-15	0
234	Pioneering234	cheonho	2024-01-15	0
233	Pioneering233	cheonho	2024-01-15	0
232	Pioneering232	cheonho	2024-01-15	0
231	Pioneering231	cheonho	2024-01-15	0
230	Pioneering230	cheonho	2024-01-15	0
229	Pioneering229	cheonho	2024-01-15	0
228	Pioneering228	cheonho	2024-01-15	0

page	offset	beginPage	page-1	(page-1 /10) * 10 +
1				
1	0	1	0	0
2	10	1	0	
3	20	1	0	
4	30	1	0	
....				
11		11	10	
15		11	10	
25		21	20	

ex) $25 / 10 * 10 + 1 = 21$

게시글 읽기

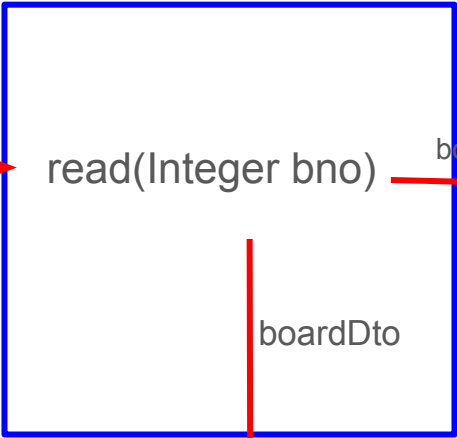
번호	제목	이름	등록일	조회수
250	Pioneering250	cheonho	2024-01-15	21
249	Pioneering249	cheonho	2024-01-15	1
248	Pioneering248	cheonho	2024-01-15	1
247	Pioneering247	cheonho	2024-01-15	0
246	Pioneering246	cheonho	2024-01-15	1
245	Pioneering245	cheonho	2024-01-15	0
244	Pioneering244	cheonho	2024-01-15	1
243	Pioneering243	cheonho	2024-01-15	0
242	Pioneering242	cheonho	2024-01-15	0
241	Pioneering241	cheonho	2024-01-15	0

1 2 3 4 5 6 7 8 9 10 >

/board/read?bno=번호

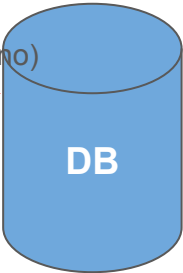
GET

BoardController.java



boardDto

boardService.read(bno)



게시판 읽기

Pioneering247

Ready for Action247

board.jsp

게시글 삭제

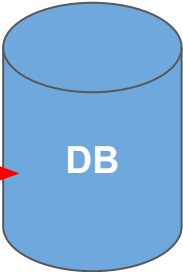
번호	제목	이름	등록일	조회수
250	Pioneering250	cheonho	2024-01-15	21
249	Pioneering249	cheonho	2024-01-15	1
248	Pioneering248	cheonho	2024-01-15	1
247	Pioneering247	cheonho	2024-01-15	0
246	Pioneering246	cheonho	2024-01-15	1
245	Pioneering245	cheonho	2024-01-15	0
244	Pioneering244	cheonho	2024-01-15	1
243	Pioneering243	cheonho	2024-01-15	0
242	Pioneering242	cheonho	2024-01-15	0
241	Pioneering241	cheonho	2024-01-15	0

1 2 3 4 5 6 7 8 9 10 >

BoardController.java

boardService.remove(bno, writer)

remove(Integer bno)



④
List<BoardDto>

③

②

게시판 읽기

Pioneering244

Ready for Action244

board.jsp

/board/remove
POST

①

삭제 목록

게시글 쓰기

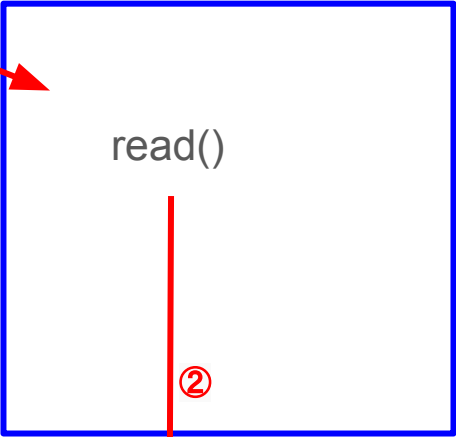
글쓰기

번호	제목	이름	등록일	조회수
250	Pioneering250	cheonho	2024-01-15	21
249	Pioneering249	cheonho	2024-01-15	1
248	Pioneering248	cheonho	2024-01-15	1
247	Pioneering247	cheonho	2024-01-15	0
246	Pioneering246	cheonho	2024-01-15	1
245	Pioneering245	cheonho	2024-01-15	0
244	Pioneering244	cheonho	2024-01-15	1
243	Pioneering243	cheonho	2024-01-15	0
242	Pioneering242	cheonho	2024-01-15	0
241	Pioneering241	cheonho	2024-01-15	0

1 2 3 4 5 6 7 8 9 10 >

/board/write

BoardController.java



게시판 글쓰기

Pioneering247

board.jsp

Ready for Action247

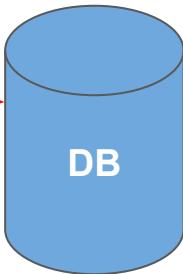
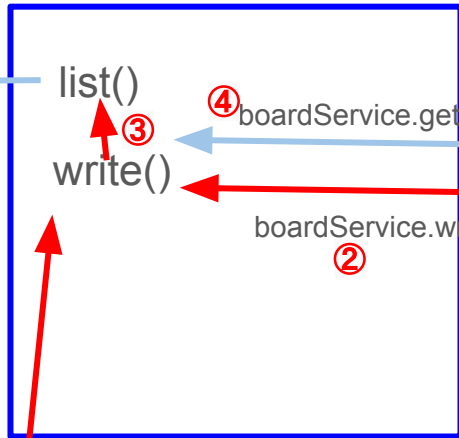
게시글 쓰기

번호	제목	이름	등록일	조회수
250	Pioneering250	cheonho	2024-01-15	
249	Pioneering249	cheonho	2024-01-15	
248	Pioneering248	cheonho	2024-01-15	
247	Pioneering247	cheonho	2024-01-15	0
246	Pioneering246	cheonho	2024-01-15	1
245	Pioneering245	cheonho	2024-01-15	0
244	Pioneering244	cheonho	2024-01-15	1
243	Pioneering243	cheonho	2024-01-15	0
242	Pioneering242	cheonho	2024-01-15	0
241	Pioneering241	cheonho	2024-01-15	0

1 2 3 4 5 6 7 8 9 10 >

⑤
List<BoardDto>
redirect:/board/list

BoardController.java



게시판 글쓰기

① board.jsp

/board/write
POST

등록 목록

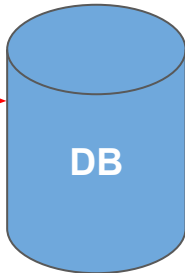
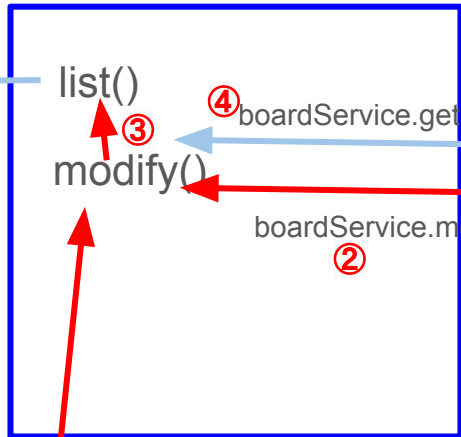
게시글 수정

번호	제목	이름	등록일	조회수
250	Pioneering250	cheonho	2024-01-15	
249	Pioneering249	cheonho	2024-01-15	
248	Pioneering248	cheonho	2024-01-15	
247	Pioneering247	cheonho	2024-01-15	0
246	Pioneering246	cheonho	2024-01-15	1
245	Pioneering245	cheonho	2024-01-15	0
244	Pioneering244	cheonho	2024-01-15	1
243	Pioneering243	cheonho	2024-01-15	0
242	Pioneering242	cheonho	2024-01-15	0
241	Pioneering241	cheonho	2024-01-15	0

1 2 3 4 5 6 7 8 9 10 >

⑤
List<BoardDto>
redirect:/board/list

BoardController.java



게시판 수정

이번 겨울 수정

오늘이 더 맑네요 수정

board.jsp

/board/write
POST

이전 삭제 목록

Spring Boot

Spring MVC

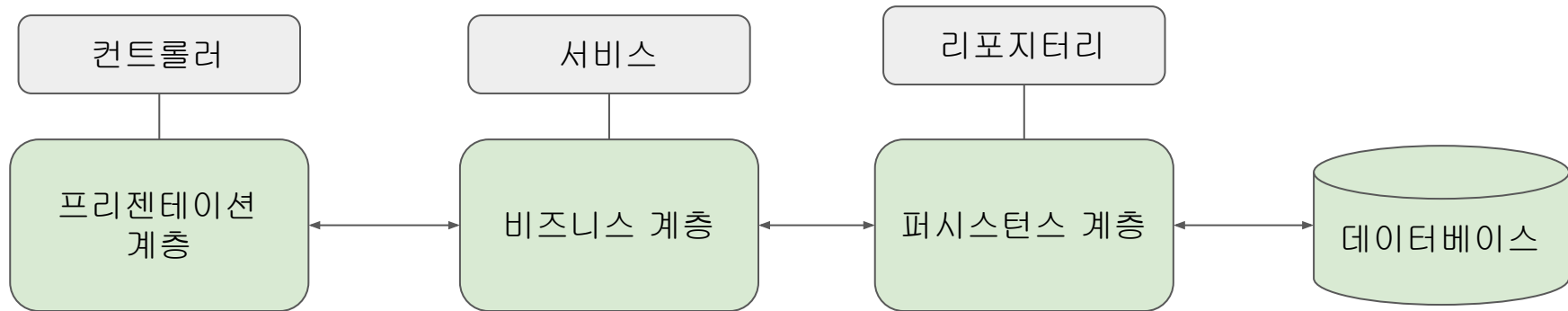
Spring REST

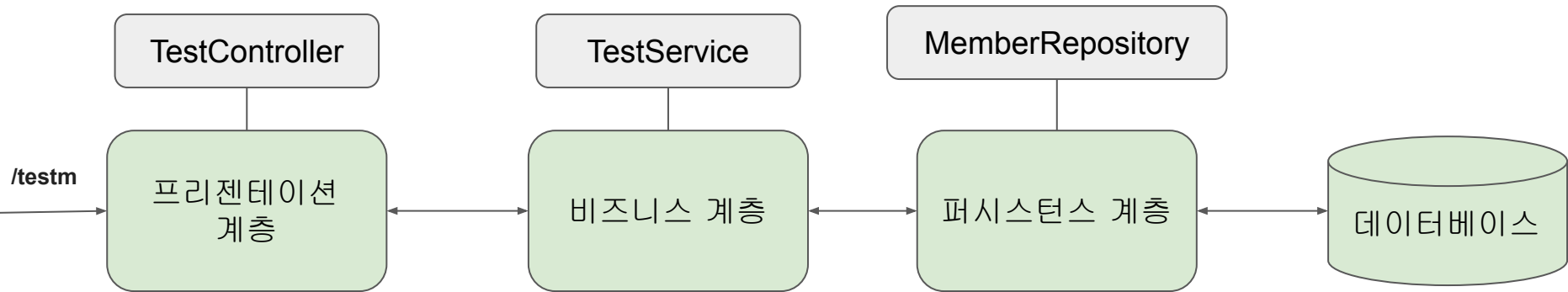
Spring ...

Spring Core

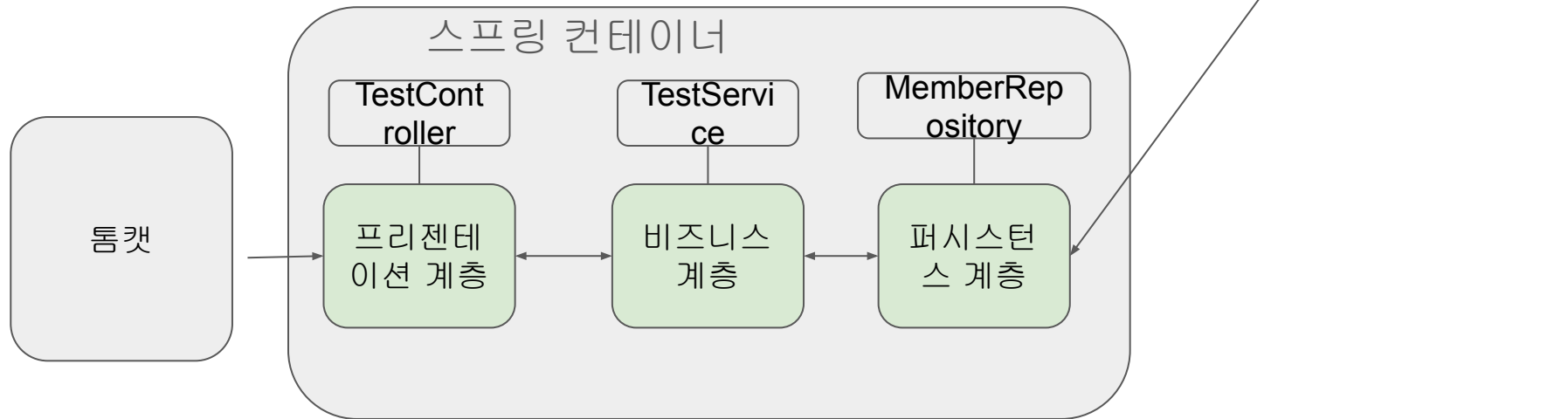
Spring AOP

Spring ...





/testm



객체

RDB

Spring
Boot

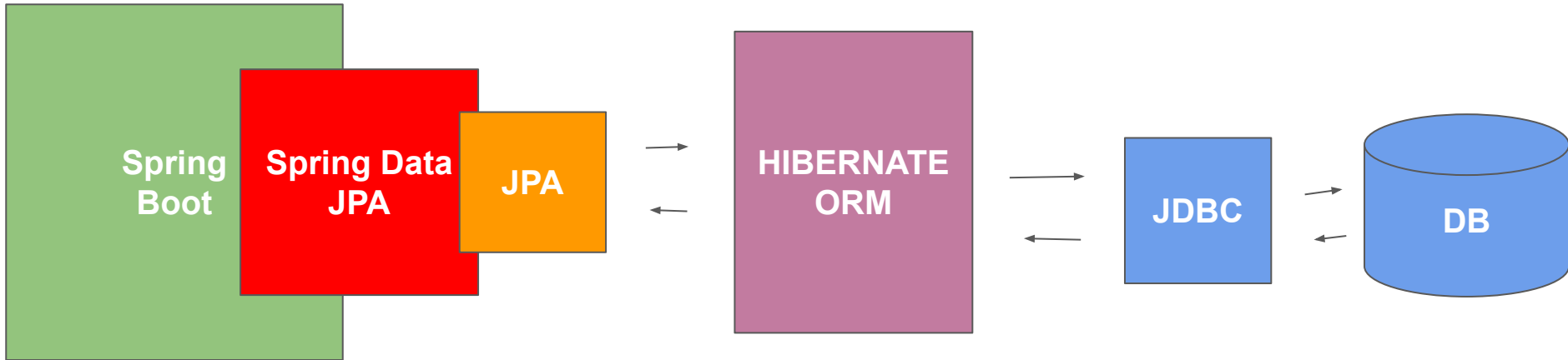
Spring Data
JPA

JPA

HIBERNATE
ORM

JDBC

DB



자바 코드

```
int age = 20;  
String name = "이순신"
```

ORM

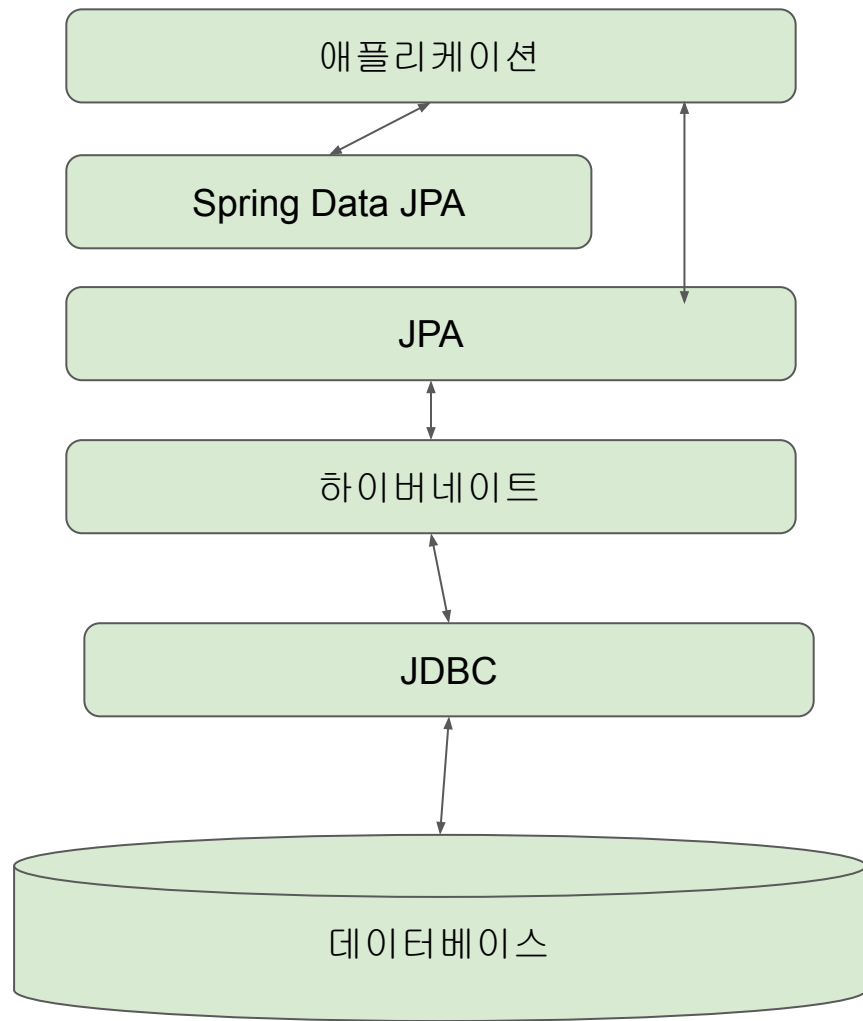
RDB

age

name

20

이순신





`post /api/articles`

BlogController

프리젠테이션
계층

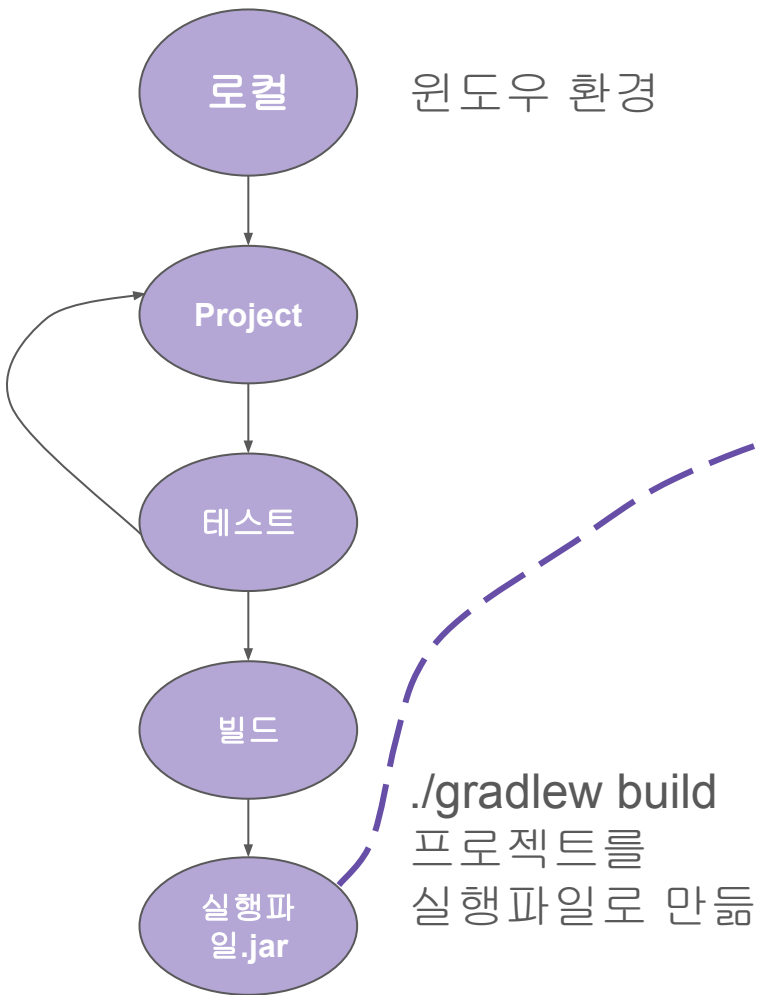
BlogService

비즈니스 계층

BlogRepository

퍼시스턴스 계층





테스트와 실행환경이 다름!
⇒ 배포 후 실행시에 실패할 수 있음



