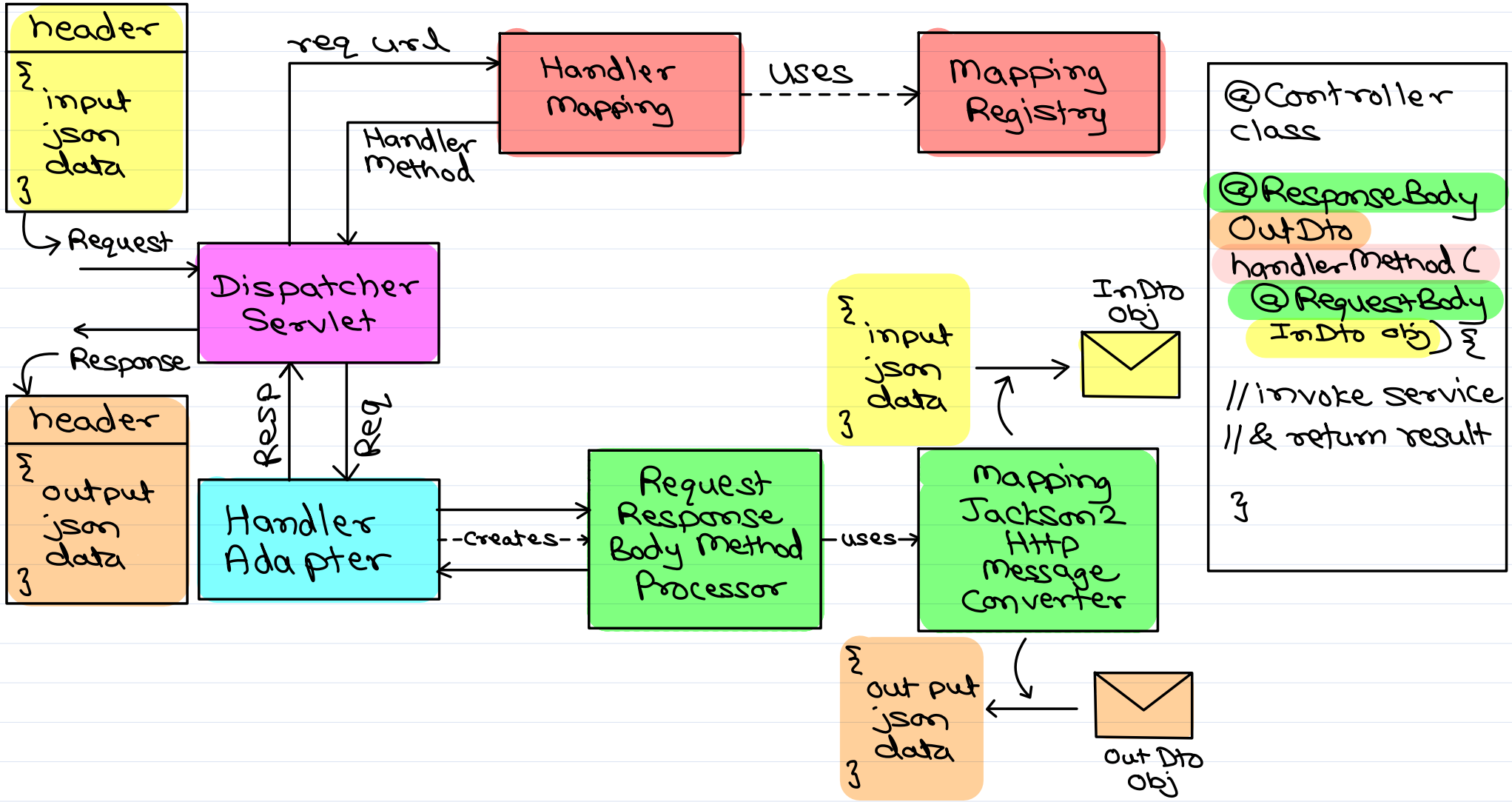
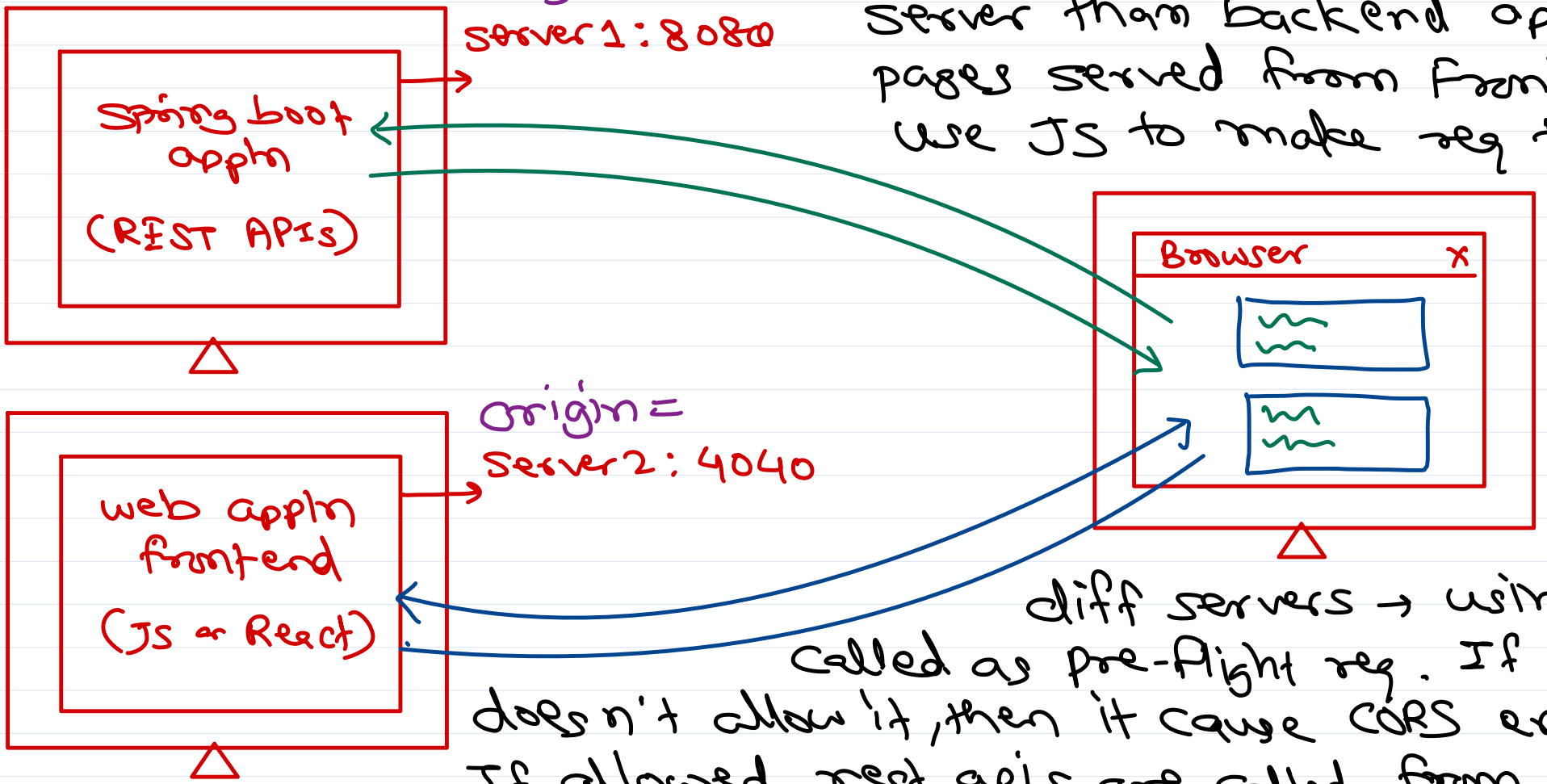
Advanced Java

Trainer: Nilesh Ghule

REST Services



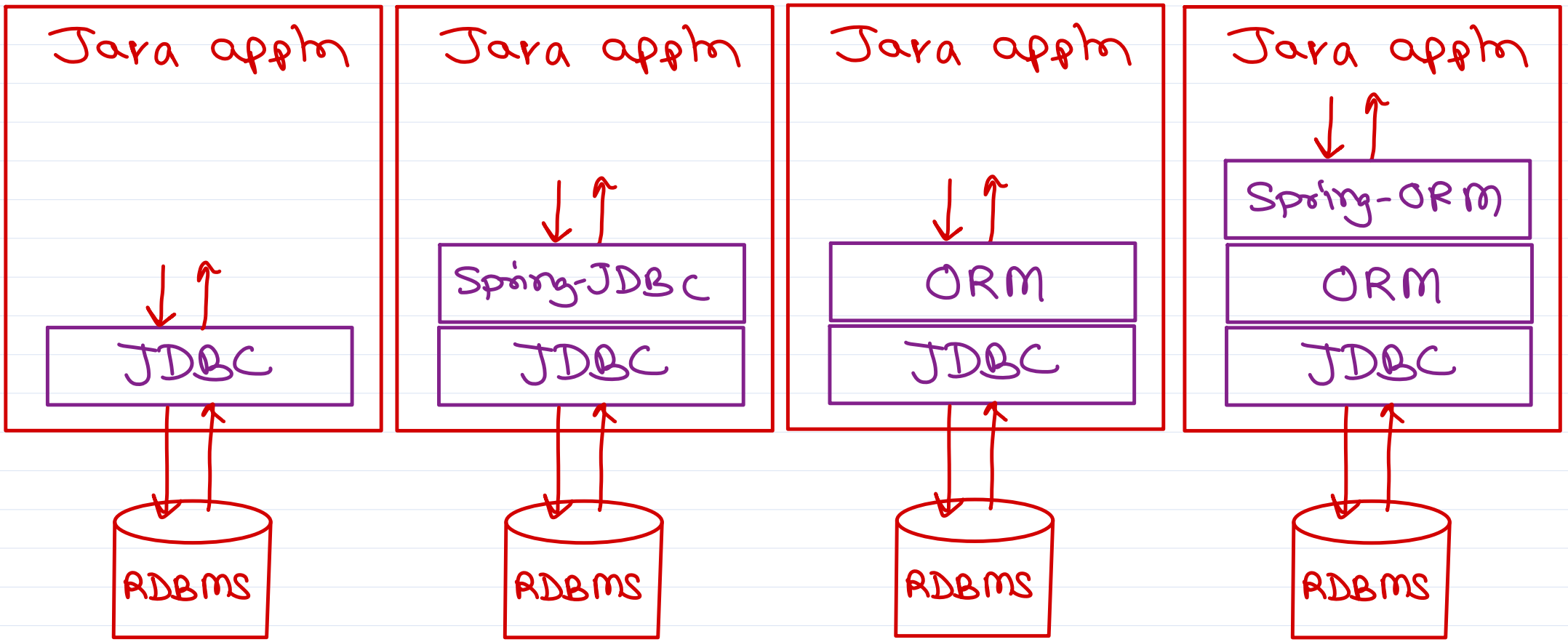
CORS



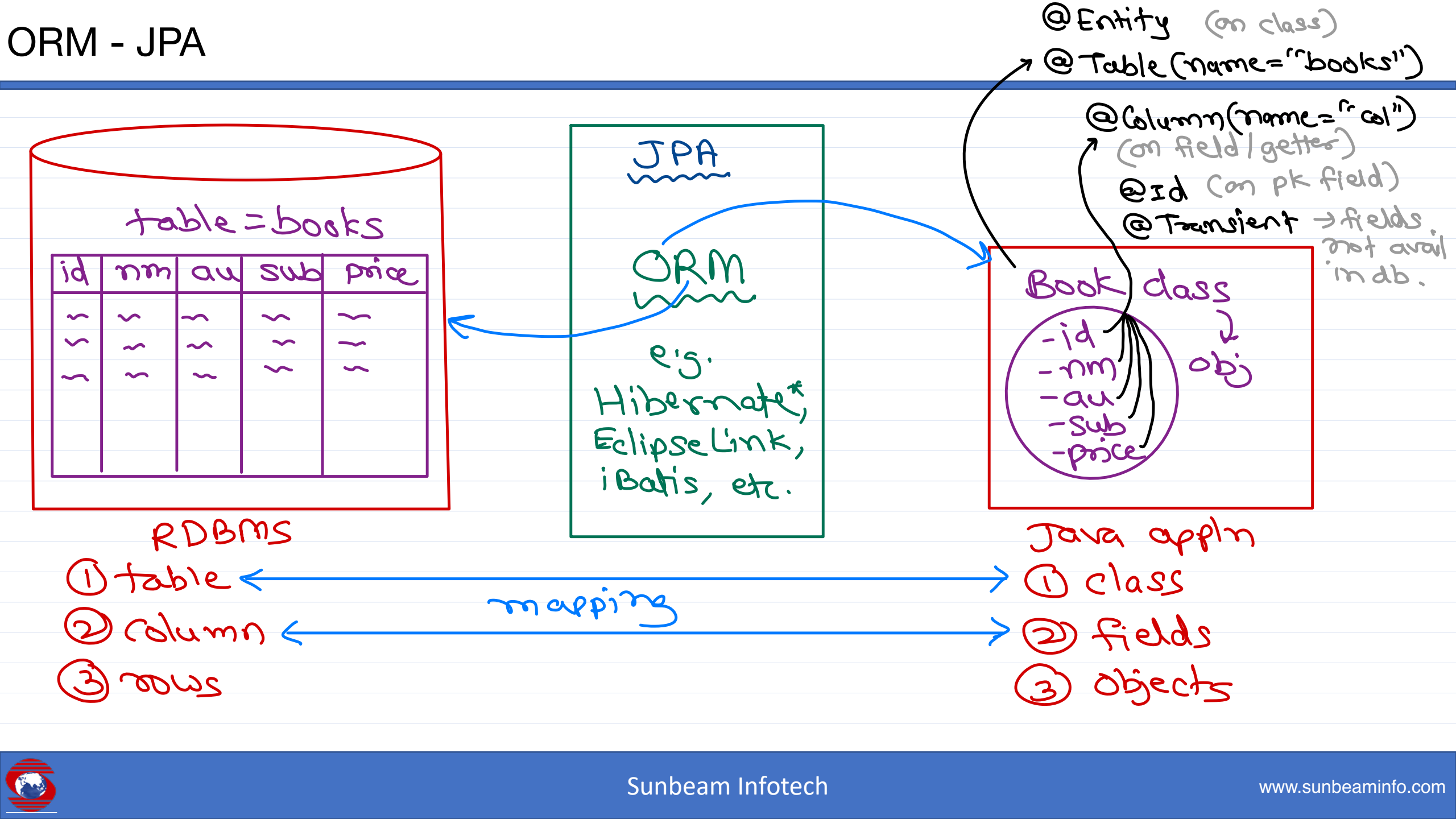
Typically frontend appln run on diff server than backend appln. The web pages served from frontend appln, use JS to make req to Backend APIs.

However, browser check if it is allowed to call REST APIs from pages coming from diff servers → using special req called as pre-flight req. If backend server doesn't allow it, then it cause CORS error in browser. If allowed, rest apis are called from web pages.

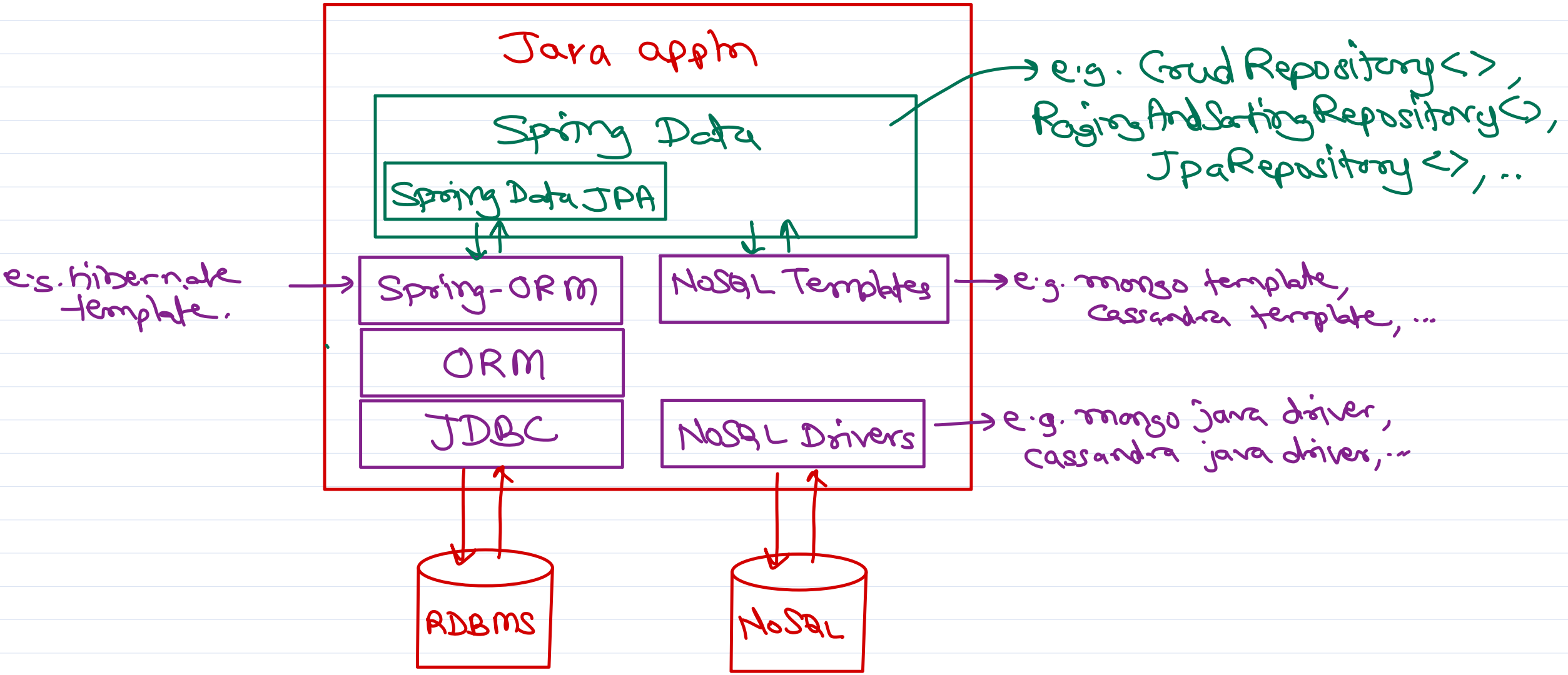
Permission of CORS is given as resp header: [Access-Control-Allow-Origin: *]


Java appln
JDBC
RDBMS
Java appln
Spring-JDBC
JDBC
RDBMS
Java appln
ORM
JDBC
RDBMS
Java appln
Spring-ORM
ORM
JDBC
RDBMS

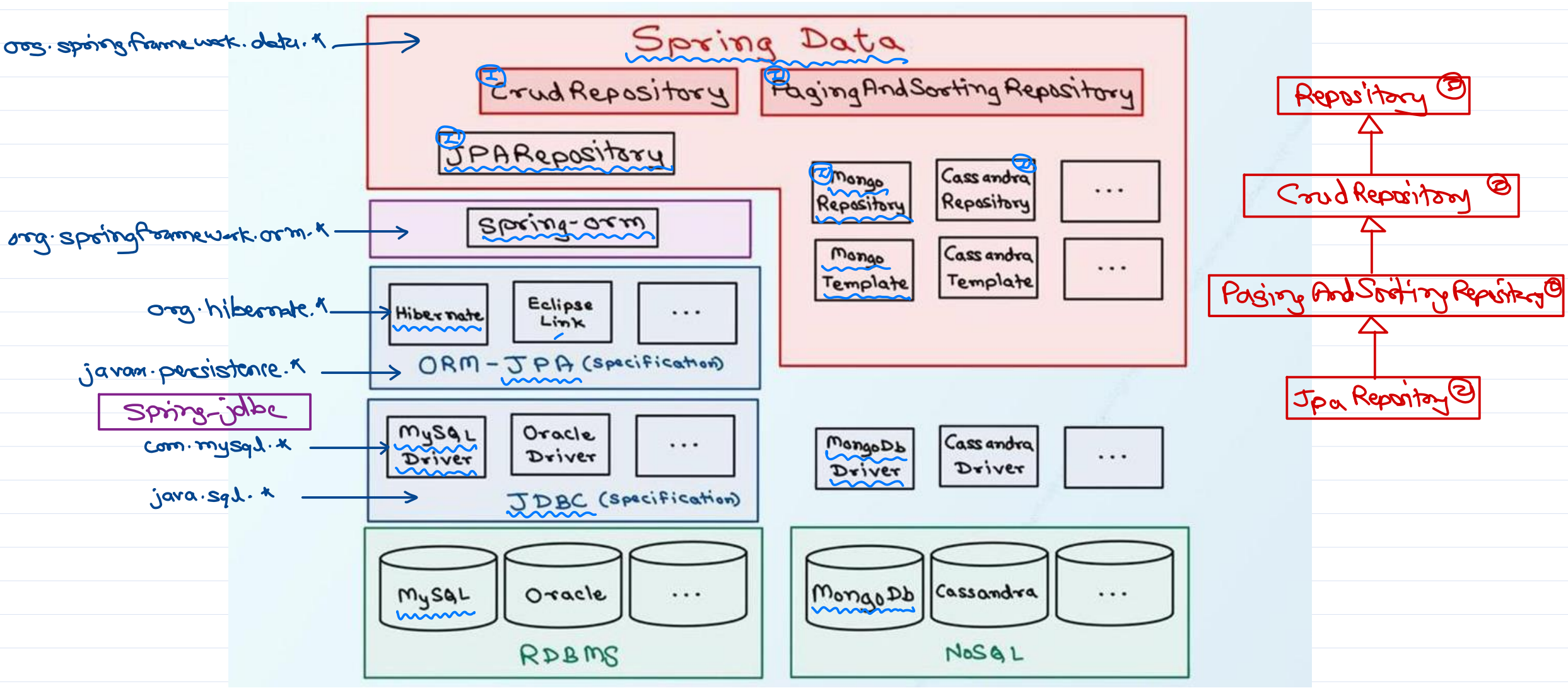
ORM - JPA


@Entity (on class)
@Table(name="books")
@Column(name="col")
(on field/getter)
@Id (on pk field)
@Transient → fields not avail in db.
table=books
id
nm
au
sub
price
JPA
ORM
e.g.
Hibernate*,
EclipseLink,
iBatis, etc.
Book class
-id
-nm
-au
-sub
-price
obj
RDBMS
Java appln
① table
② column
③ rows
mapping
① class
② fields
③ objects

Spring Data


Java appln
Spring Data
Spring Data JPA
Spring-ORM
ORM
JDBC
NoSQL Templates
NoSQL Drivers
RDBMS
NoSQL
e.g. CrudRepository<>,
PagingAndSortingRepository<>,
JpaRepository<>, ..
e.g. hibernate template.
e.g. mongo template,
cassandra template, ...
e.g. mongo java driver,
cassandra java driver, ..

Spring Data


org.springframework.data.*
Spring Data
CrudRepository
PagingAndSortingRepository
JPARepository
MongoRepository
CassandraRepository
...
MongoTemplate
CassandraTemplate
...
org.springframework.orm.*
Spring-orm
org.hibernate.*
Hibernate
EclipseLink
...
ORM - JPA (specification)
javax.persistence.*
Spring-jdbc
com.mysql.*
MySQL Driver
Oracle Driver
...
java.sql.*
JDBC (specification)
MongoDb Driver
Cassandra Driver
...
MySQL
Oracle
...
RDBMS
MongoDb
Cassandra
...
NoSQL
Repository
CrudRepository
PagingAndSortingRepository
JpaRepository

Thank you!

Nilesh Ghule <nilesh@sunbeaminfo.com>