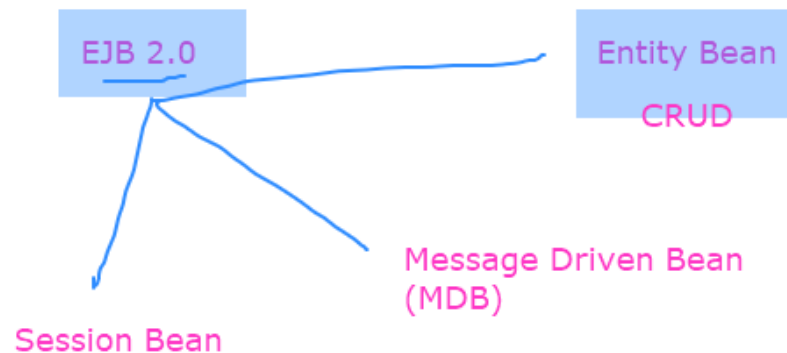
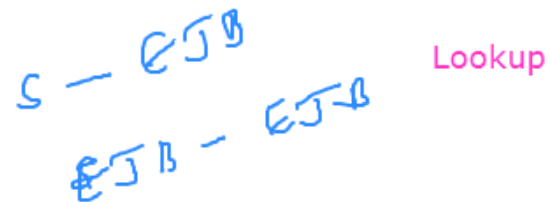


jsp + SERVLETS + ejb



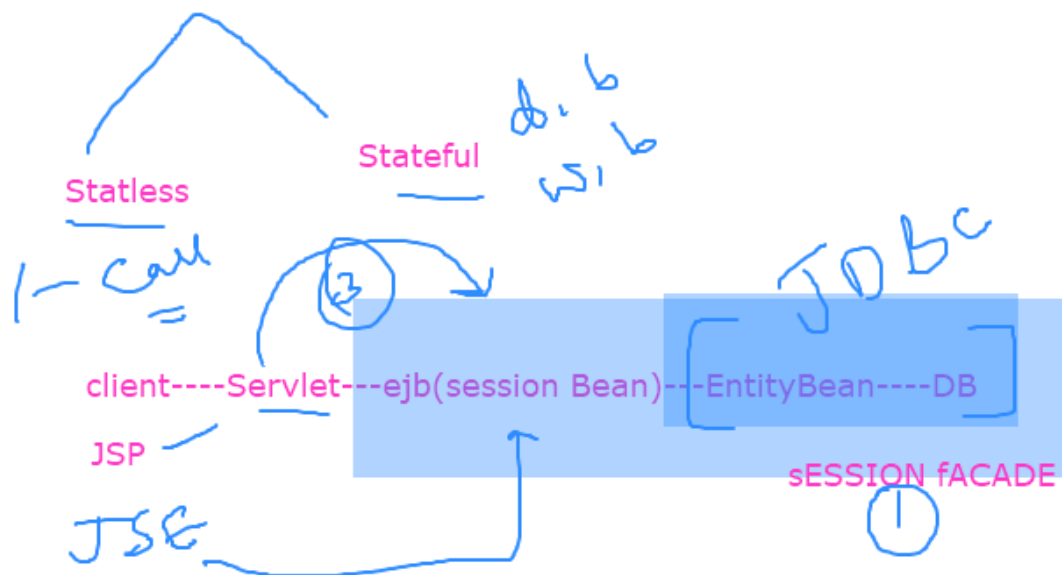
Bussiness Tier Design Patterns:

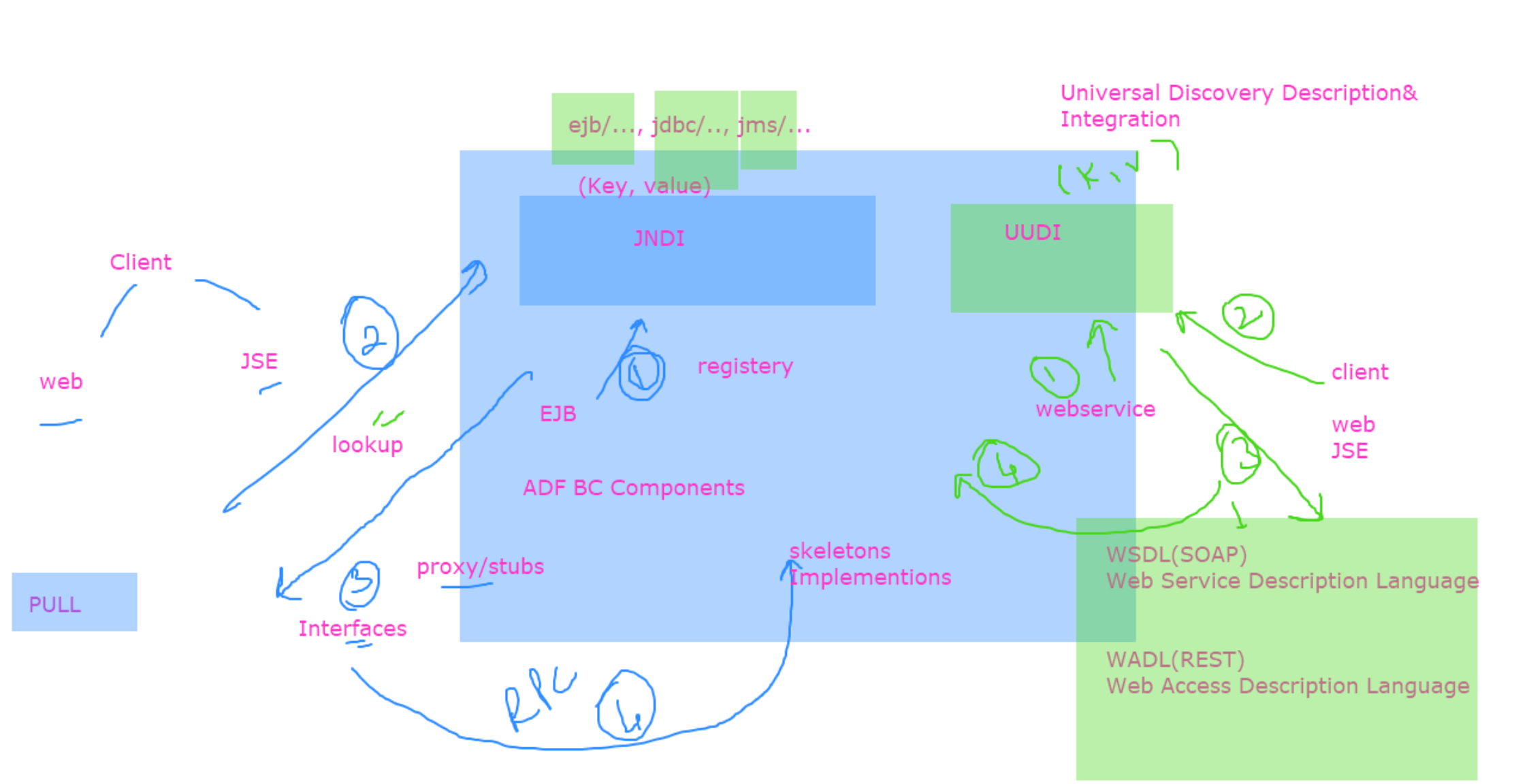
1. Session Facade
2. Service Locator (JNDI)
3. Bussiness Delegate



JNDI

Java Naming and Directory Interface





EJB 2.0---Spring

Design Patterns: PUSH

IOC(Inversion of Control)/
Dependency Injection



EJB 3.*

Session Bean

Message Driven Bean

JPA (ORM)

JSE

JEE

AOP- Aspect Oriented Programming

Logging

Transaction

Authn



multiple
code

Spring Core-JSE

Spring MVC + JPA

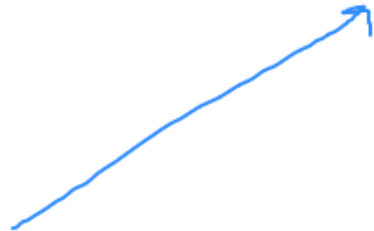


Loose Coupling

Core Logic (POJO/JavaBean)

+

XML/Annotation



Concerns:

2. No Security

1. Broiler plates code

Navigation

Bean get/set

← W--H
↓ get Bean



login-----searchproduct-----Addtocart-----Bill-----Ship-----Logout

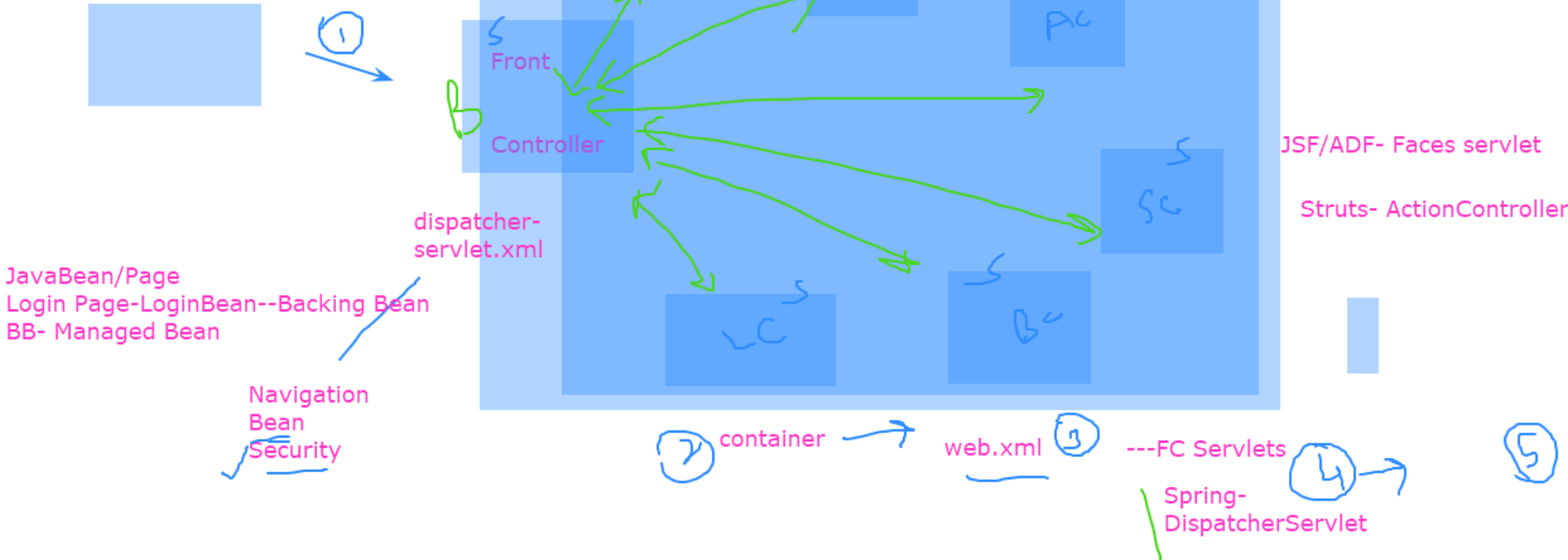


✓ read form parameters
✓ DB validation
✓ processing
✓ navigation
state mgmt-JB/ejb → surr
presentation--JSP

<http://amazon.com/ship>

Presentation Tier:

Front Controller



WADL

REST - Respresentation State Transfer

Resource

http protocol -STATELESS

GET
POST
PUT
DELETE

FORMAT OF DATA:

JSON/XML/HTM/TEXT

Lightweight

WSDL

SOAP-Simple Access Object Protocol

Service

SOAP/HTTP- stateful

SOAPRequest/ SOAPResponse

XML

Heavyweight

Spring Boot:

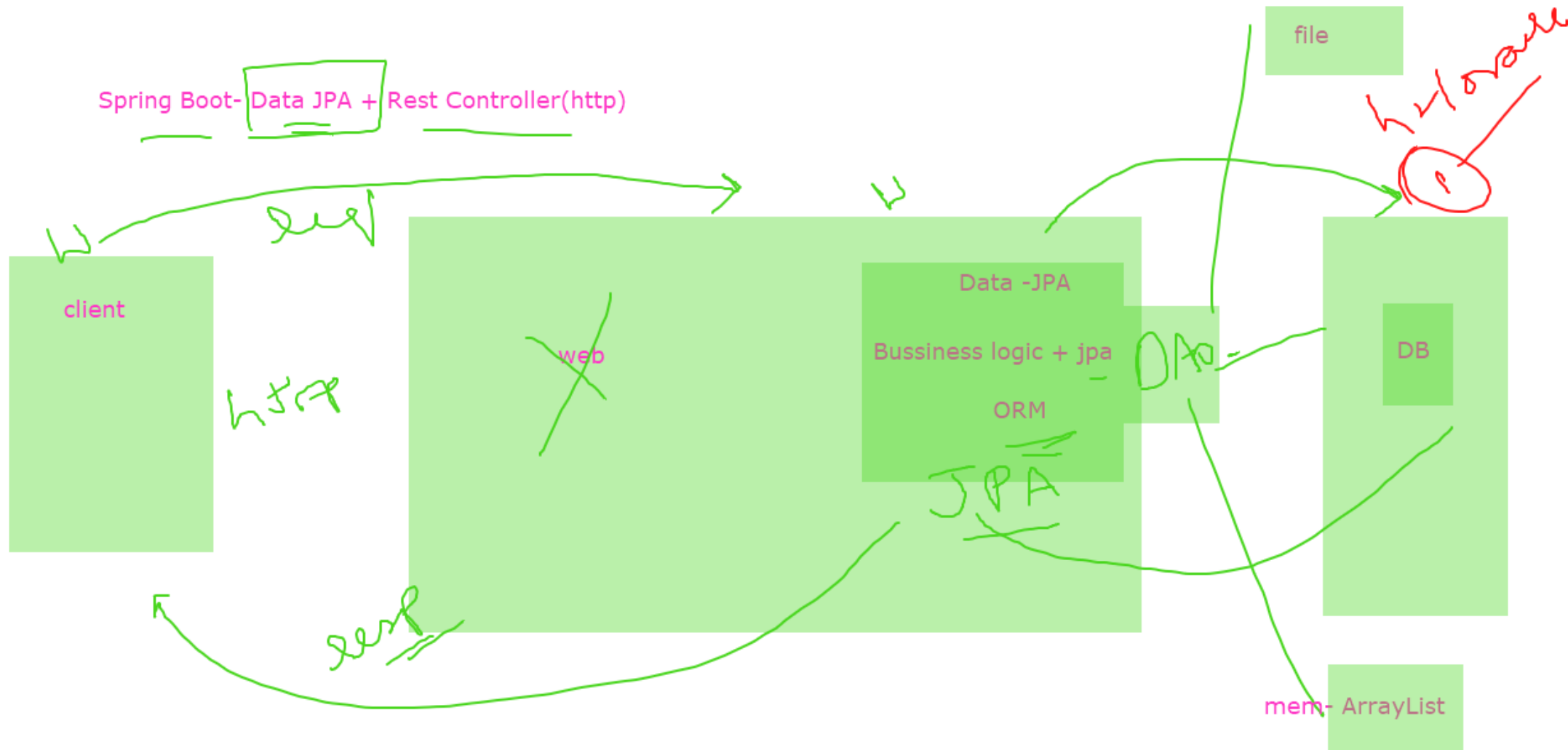
IDE:

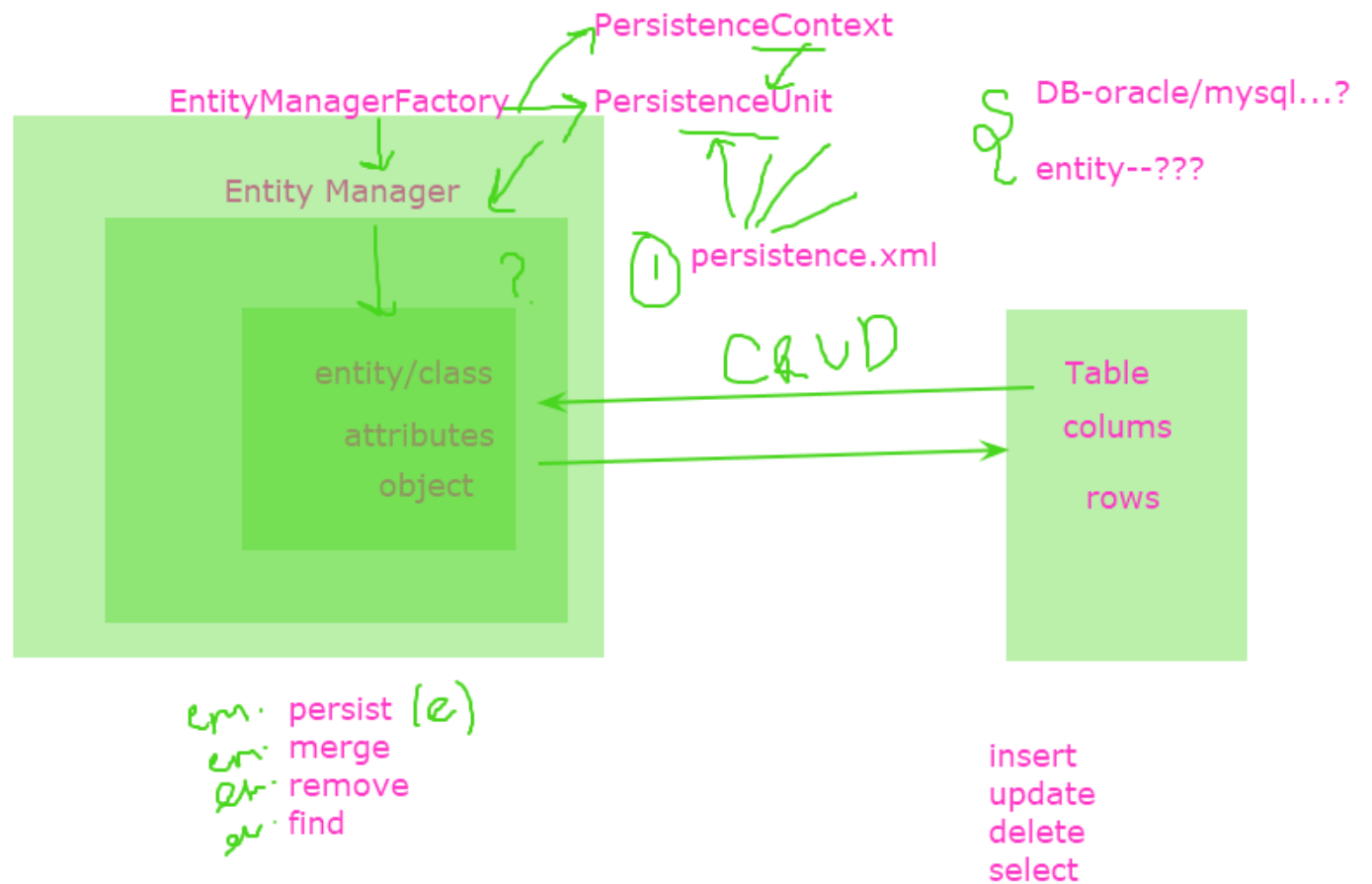
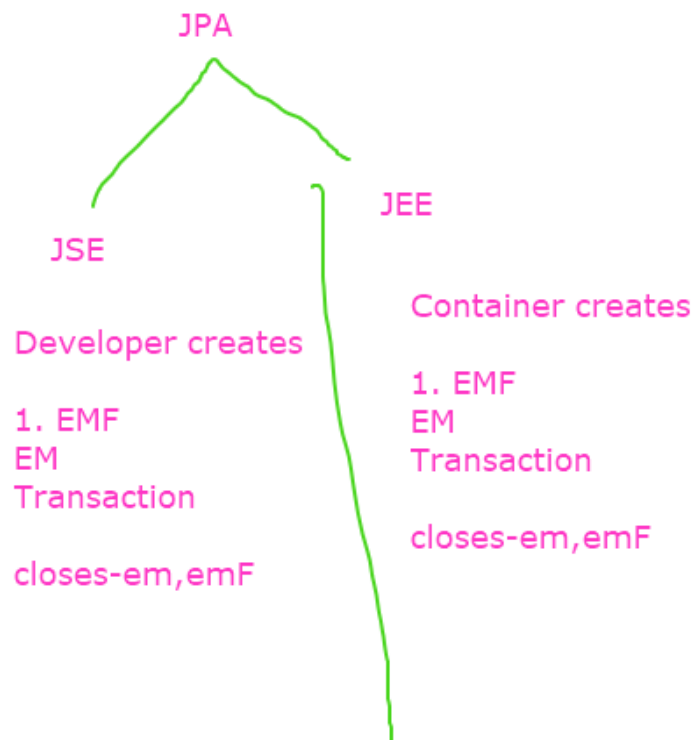
Eclipse(install plug in for STS)

STS- Sprint Tool Suite

Maven Projets

```
.
├── development
├── test
├── build
├── packagae
├── docume
└── deploy
```



SpringBoot+Rest+Data-JPA

1. Configure the DB

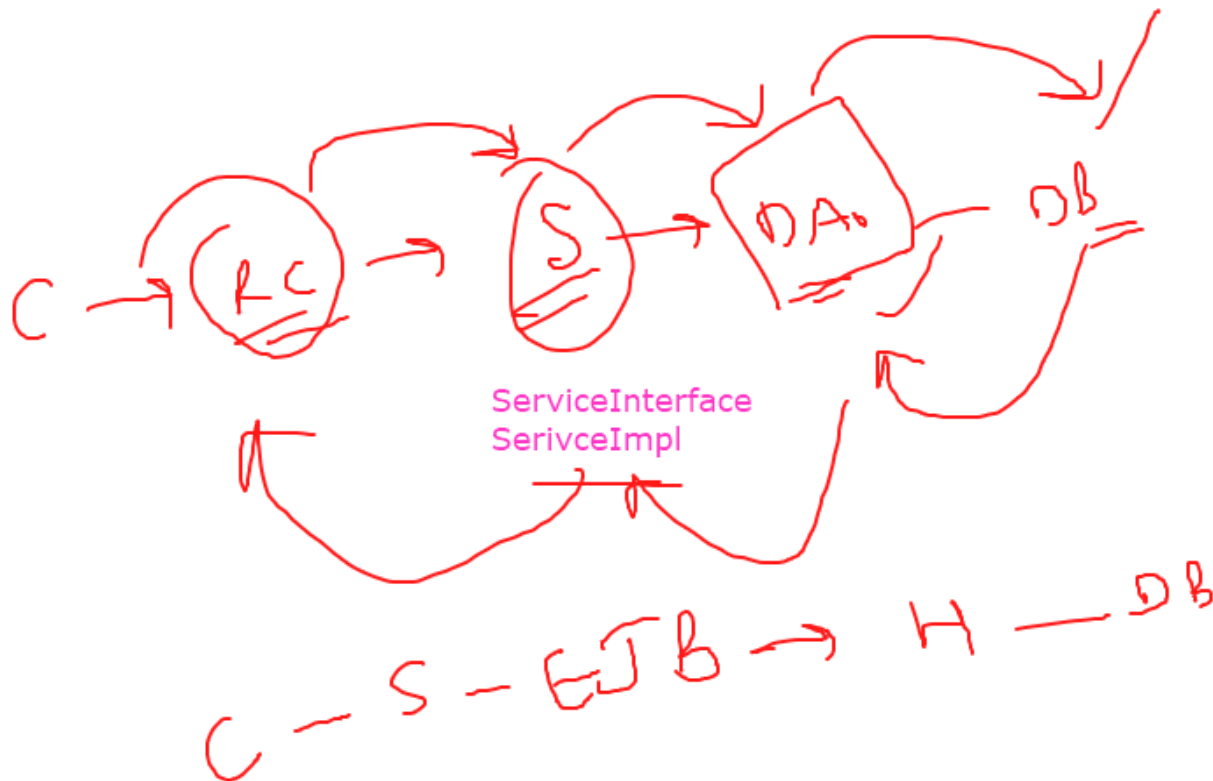
2. Entity==table

3. DAO-crud-DB

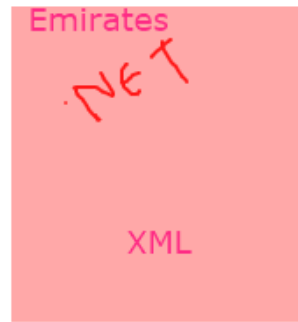
Jpa repository

4. Service-Bussissness Logic
Interface- method
Implementation-

5. Controller



SOA- Service Oriented Architecture



Adapeter /wrapper
Webservice

XML

Microservices



Microservice

Eureka Registry

service id	IP
—	—

