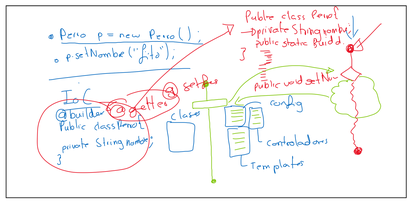
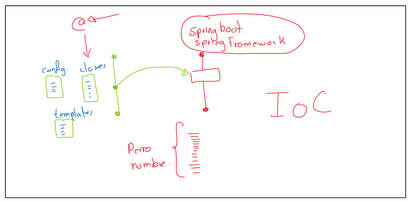
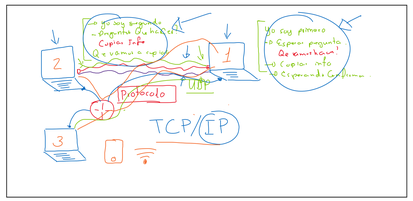
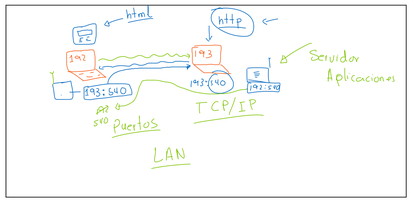
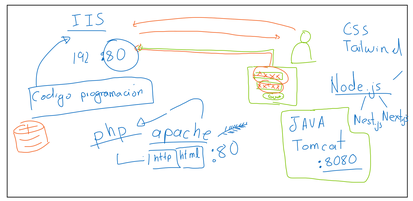
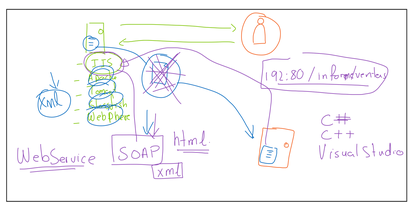

Perro p = new Perro();
p.setNombre("fido");
IoC
@Builder
@getter
@setter
Public class Perro
private String nombre;
Public class Perro
private String nombre;
private static Build
Public void setNo
clase
config
controladores
Templates

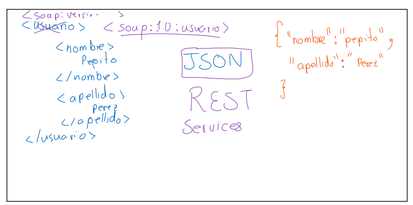

Spring boot
Spring framework
IoC
config
clases
templates
Perro
nombre

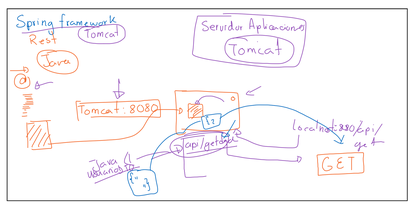

Protocolo
UDP
TCP/IP

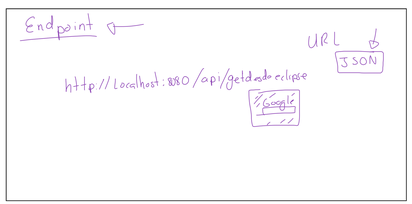

html
http
Servidor Aplicaciones
TCP/IP
Puertos
LAN

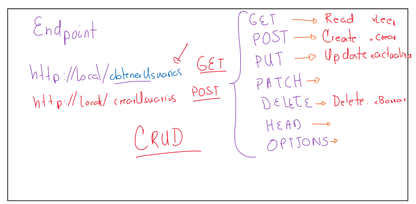

IIS
:80
Codigo programacion
CSS
Tailwind
Node.js
Next
Nestjs
JAVA
Tomcat
:8080
php
apache
:80

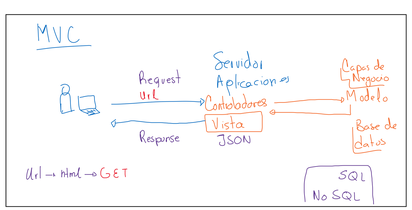

IIS
XML
WebDide
192:80/informacion
WebService
SOAP
html
xml
C#
C++
VisualStudio

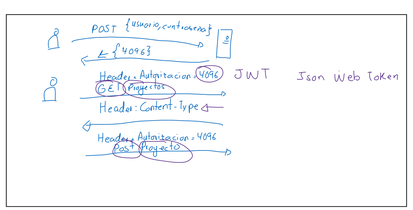

<Soap:version>
<Usuario>
<Soap:10:usuario>
<nombre>
Pepito
</nombre>
<apellido>
Perez
</apellido>
</usuario>
JSON
REST
Services
{"nombre": "pepito",
"apellido": "Perez"
}

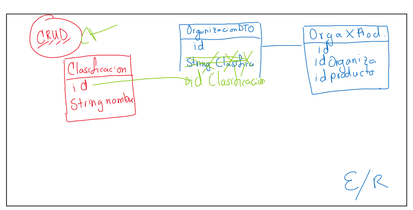

Spring framework
Rest
Tomcat
Java
Servidor Aplicacion
Tomcat
Tomcat: 8080
Localhost:8080/api/get
GET

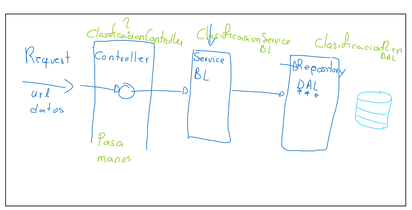

Endpoint
URL
JSON
http://Localhost:8080/api/getdatadeeclipse
Google

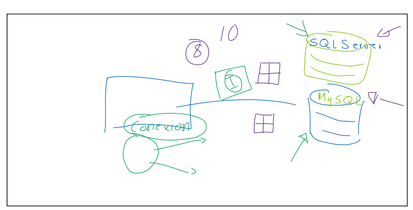

Endpoint
http://local/obtenerUsuarios
GET
http://Local/crearUsuarios
POST
CRUD
GET → Read
POST → Create
PUT → Update
PATCH →
DELETE → Delete
HEAD →
OPTIONS →

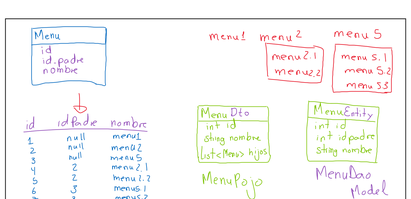

MVC
Request
Url
Servidor Aplicacion
Controladores
Capas de Negocio
Modelo
Vista
JSON
Response
Base de datos
Url → Html → GET
SQL
No SQL

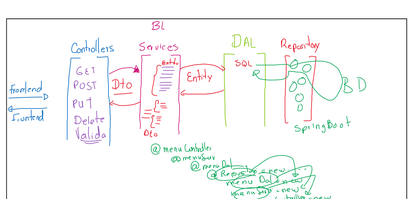

POST {usuario, contraseña}
{4096}
Header: Autorizacion 4096
GET Proyectos
Header: Content-Type
Header: Autorizacion: 4096
POST Proyecto
JWT
Json Web Token

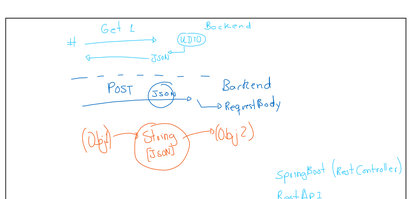

CRUD
Clasificacion
id
String nombre
OrganizacionDTO
id
String Clasificacion
id Clasificacion
OrgaXProd
id
id Organiza
id producto
E/R

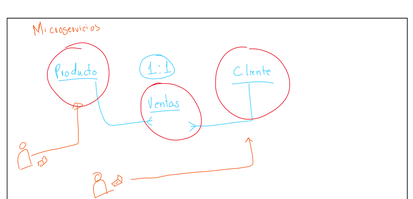

Request
url
datos
Pasa manos
ClasificacionController
Controller
ClasificacionService
Service
BL
ClasificacionRepo
Repository
DAL

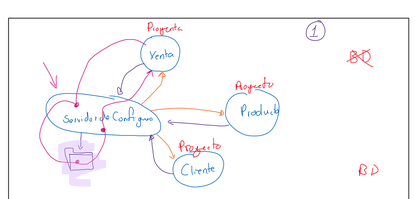

IO
SQLServer
MySQL
Context

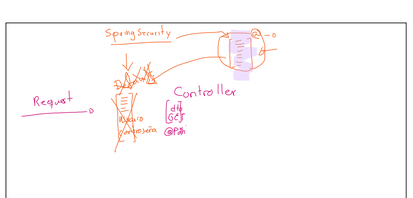

Menu
id
id_padre
nombre
menu1
menu2
menu5
menu2.1
menu2.2
menu5.1
menu5.2
menu5.3
id id_Padre nombre
1 null menu1
2 null menu2
3 null menu5
4 2 menu2.1
5 2 menu2.2
6 3 menu5.1
7 3 menu5.2
8 3 menu5.3
MenuDto
int id
String nombre
List<Menu> hijos
MenuPojo
MenuEntity
int id
int id_padre
String nombre
MenuDao
Model

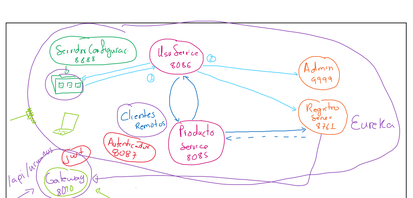

BL
Controllers
Services
DAL
Repository
frontend
Controlled
GET
POST
PUT
Delete
Valida
Dto
Entity
SQL
BD
SpringBoot
@menuController
@menuSubs
@Repository
menuDAO menu = new
menuSubs menu2 = new
menuController = new

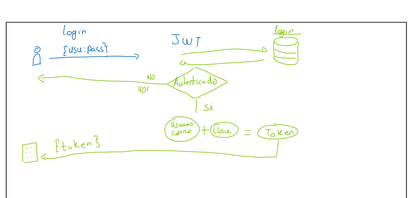

Get
Backend
JSON
POST
Backend
RequestBody
(Obj1)
String
(JSON)
(Obj2)
SpringBoot (RestController)
RestApi

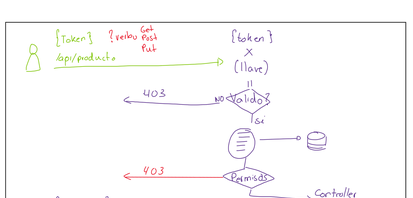

Microservicios
Producto
1:1
Ventas
Cliente


Proyecto
Venta
Proyecto
Producto
Servidor de Configuraciones
Proyecto
Cliente
BD


SpringSecurity
Request
Controller
Servicio
Inyección
@get
@Path


Servidor Configuraciones
8888
UsuService
8066
Admin
9999
Clientes Remotos
Autenticacion
8087
Producto Service
8085
Registro Server
9761
Eureka
Gateway
8010
/api/productos


Login
[usu:pass]
JWT
Login
Autenticado
NO
401
Si
Usuario
Llave
Token
{Token}


{Token}
?
Get
Post
Put
/api/producto
{Token}
X
(llave)
403
Valido?
NO
Si
403
Permisos
Controller
[1, 2, 3]