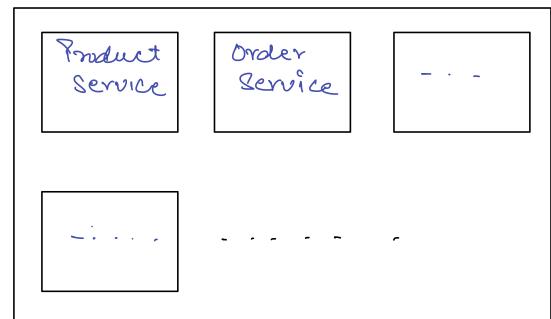
Hgenda:-I) Project Overview Microservices (Vs) Monolothic to spring frame mosta. 3) Intro 4) rependency Injection & DOC. S) Spring Boot 6) Build om first API. an Élonnerce Appli-=> Backend arch. UserService Product Service Searchservice layment Service Logistics Service Orderservice Cart Service Notification Service Monolituic

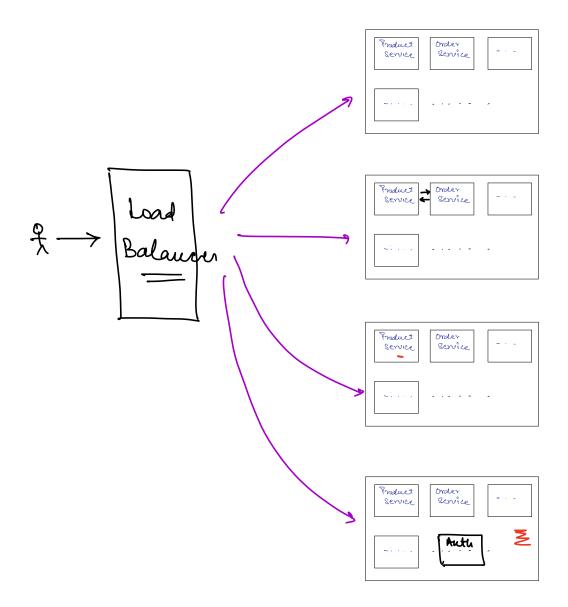
Architectur => Au the services are fact et a Single project. Micro Service

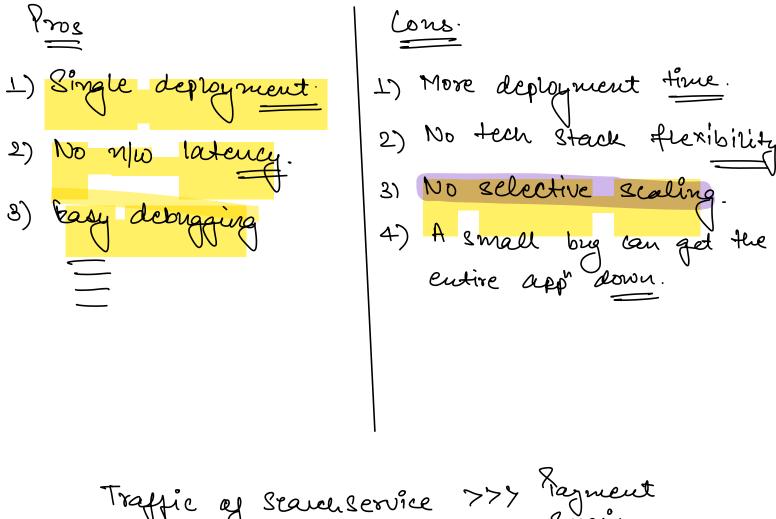
> Viggerent project for each service.





Mouslitu.





Traffic et Seauchservice >>> Magnieut Service

Microservices.

Ynduct
Service
Service

Payment Service

Dotific Service 1) Selective Scaling. faster deployment Techstack flexibility. Miconservices. Notific Service

APIGIN.

Cons.

1) Tifficult Debugging

2) N/w Call b/w microservée

Communication.

france mosts.
Li Provides us ready to rese implementation of the most common thing that we generally do as a September Engineer. The should mostly spend time on implementing
The should mostly spend time on implementing the business logic.
Java App <sup>4</sup> Scool Controller
framemorks provides ready to use functionalities to implement most common things:—  1) Creating ADI'S  2) Connecting to DB  3) Auth
W logging  Spring Framework + Java.

# Spring framework

Ly Set of Projects that allows weation of Induction

level java application by providing ready to

use functionalities.

SPRING

(Core functionalities)

ADDON:

Auth, logging, Kappa, Redis,

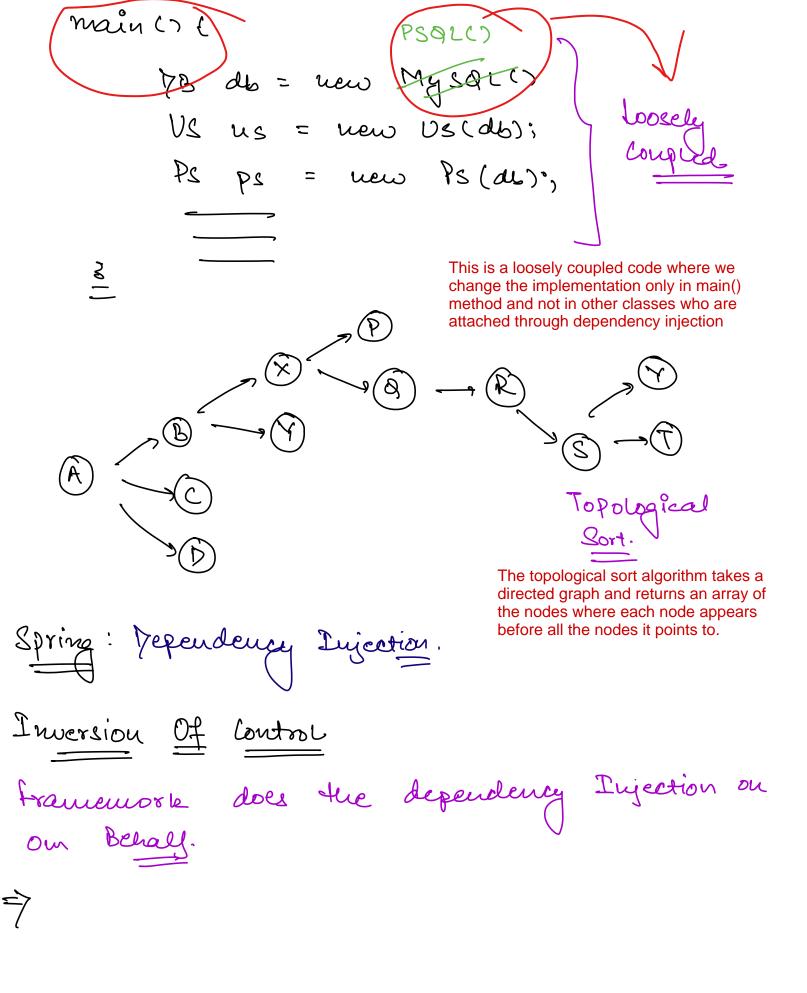
Web, Cloud, 7B, ---

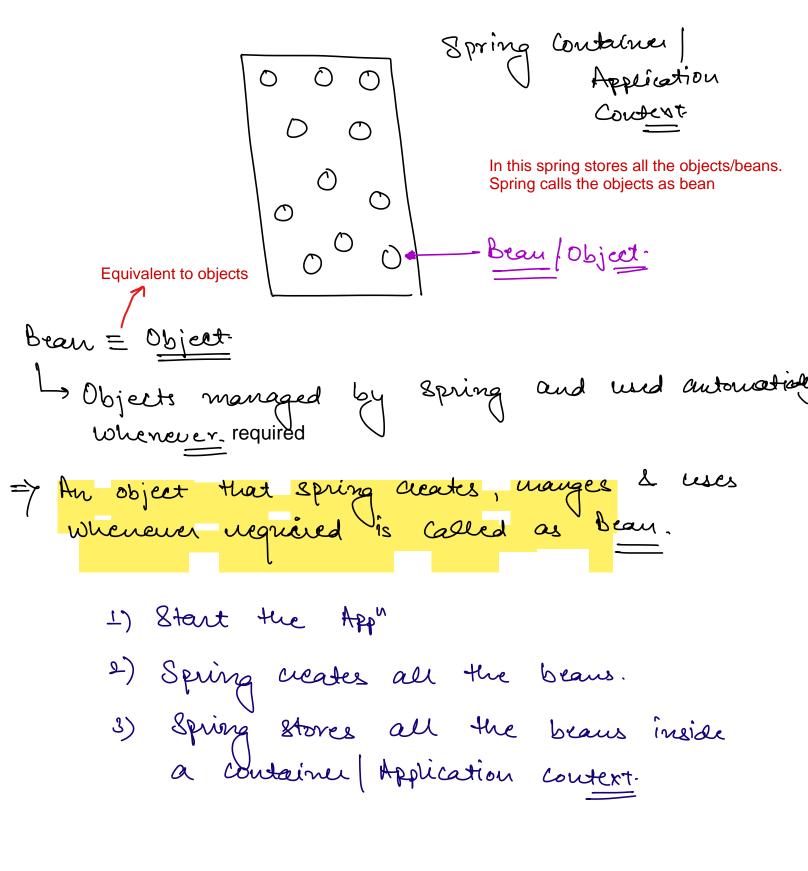
Inside of A class we have object b of class B Creating the dependen Class A ( B b = new BC? mithin the class. Class A & B b; A(8 b) 1 SetB (B b) tus.b= b3 this b = b; ઢ main()1 B b = new B() B 6 = new B() A a = new A() A a = new A(b); a- setB(6); => Yependonce Injection.

```
User service (
                               Search gervice (
                                     DB db = new DB()
     DB db = new DBL)
                               DB matauce
Prod Service ( >
      DB db = new DB()
       main ()
                                                 Injecting db object in
             7B db = new DB()
                                                 UserService class
              VS us = new Us(db);
              Ps ps = new Ps (de);
                                      Here instead of creating an object in
                                      each class. Just create one object in
```

main class using dependency injection

User Bervice (	Searc	h Bervice (
DB db = new	Mysolly	DB db = new Mysquis
<del></del>	<u>=</u>	
Prod Service ( DB db = ne	m Mysolls	=> Tigletly Coupled.
3 Migrate fron	n Mysol to	If we have a class of MYSQL() database and if I want to migrate to PSQL database you have to change the implementation from MYSQL() to PSQL() at every place in each class
Mysac	2 = 0 B>>	
=> Ly me want me'll have to	to nigrate t	o another DB then uge at every place.





=> Earlier if we roant to we any addon with Spring, lot of configurations (xML) were required.

=> Spring Boot: lackage on top Spring framework
that allows easy usage of Addons.

-> framework based on Spring that
provides us easy usage of Addons.