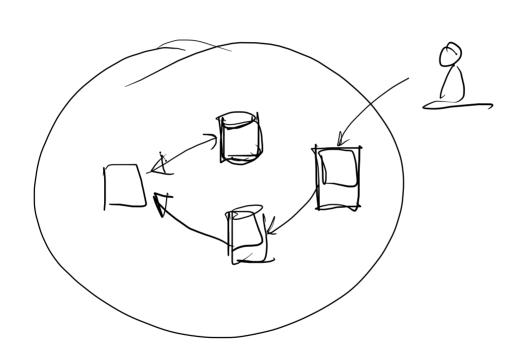
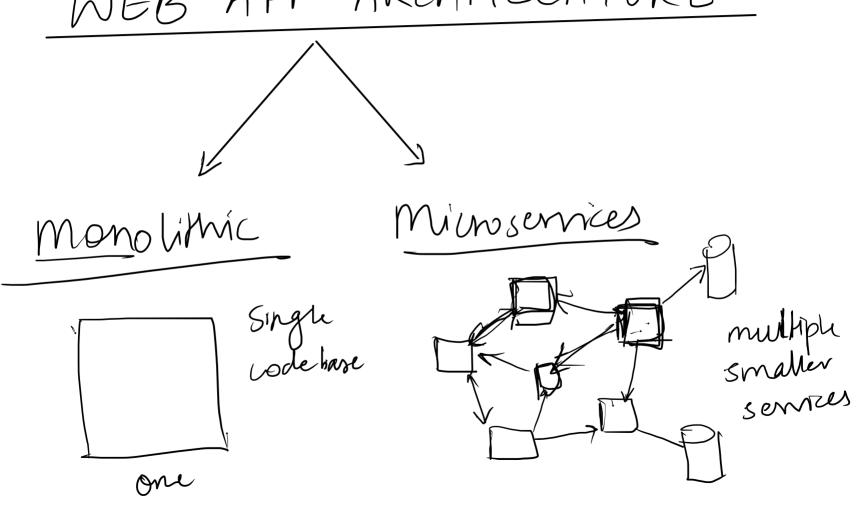
WEB APP ARCHITECHTURE



WEB APP ARCHITECHTURE



Advantages Mono Lithic: 1.) Good for small trans 21) Simplicity manayhur. 3) les duplication 4) Fasier to deploy as only single jar/war the 5) Les problems of network later cy ? security

Disadvantages of monolithic: 1.) Becomes too large with time 3 difficult to mange 2.) need to reduplay the whole application, even for small change - deployment time increases 3.) difficult for new durloper joining the team. (to understand.) the logic 4) Single fault in any module can bring down und whole application

Microservices > application is made up of smaller services that handle small postion of the functionality and data by Communiating with each other dretty.

Microservices

Small Services working together

Microsennies

Each microscovice has its Microsemiles duplication of some data Each service can be written 52 in different programming language. Principles of Microservices

1) Single Responsibility <u>Irrspoundity</u>—<u>I functionally</u>
21) Built around business capabilities

Seath Ms can use diff technology barrel
on business requirement

3') <u>Dengn for failure</u>: om ms goes down should not affect the whole system.

Advantages 1) Easy to marage Rach service. 2.) If any update in one ms, only redeploy that specific MS 3.) Easy for new developer to onboard. 4) If one MS is facing heavy traffic, we can scall just that Ms. 5) cach serve -> diff. technology 61) on sence failur does not bring down the whole application

Disadvantages: Being distributed System, more complex.

Complexity 2) Skilled developers are required to manage multiple senses and their intercommunithm. 3) 3) Nervork Laterry issues Security rosnes dué to inter-service communication 4.) Debuggig is complex -> difficult to find error course 5.) Testing is complex > all services should work seamlersty

S'OA (Service oriented Architechun) > separate senicy 7 shared resources → Separah Service modules → derigned to share resources a cross Services. mondolpha - Involves compount sharing