Micro services

Sunday, October 13, 2019 10:00 PM

Agenda

1/2 of day
of 8-10 pm

1) what is a monolith?
2) Advantage / Disadvantage of monolith
3) what is a service
4) Advantage / disadvantage of service
5) Communication b/w services
6) Distributed transactions
7) Deadlock
8) when to use monolith / when to use services

Topics :- Distributed case / Domain Driven D

Models :-

1) Catalog Models
2) Search
3) Cart
4) Orders
5) Payments
6) Notifications
7) Shipping Partners / Tracking / L.M.S. / Logistics
8) User Models
9) Merchants / Seller Models

For plan :- Review / Prep / Ideation
Review Model Prep

Review ecommerce frameworks
→ Magento → PHP
→ M2 → Java
→ Spree → Ruby

Spree (Rails)
→ web-based client

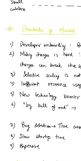
Zoom → :)

Zoom / Jay (2:00)

Zoom
Zoomies / Jay
1 pm

Zoom
Zoom notes / Jay
5 pm

Rockpaper Scissors



Advantages of Monolith

1) Easier of development of monolithic
2) Easier to test, debug & deployment
3) Path to solution, more code in a single stream
4) Quick launch / less time to market

Jay
post
monolithic → zoom notes/wiki
Jay
post → post doc
Sachin
solution → Step of Sample
code base

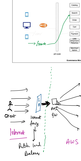
Disadvantages of Monolith

1) Development productivity / Big complex code
2) Many changes in hard : Tight coupling, small
changes can break the system, e2e testing
3) Scaling ability is not possible
4) Inefficient resourcing usage. (10 vs 100 remote workers)
5) Slow technology transition
6) "Big Ball of mud" → the one knows the spaghetti
activity
7) Big database Time consuming
8) Slow startup time
9) Deployment

Monolith : App that consists of one system where
database, business logic, database layer are all
implemented & dependent on each other

Jay
→ want to move from Monolith to microservices
Sachin
→ Decomposition of monolith

Decomposition
→ Based on data
→ Easy to decompose
→ Not (business not well defined, functional)



Catalog
Search
Cart
Order
Payment
Notification
Shipping Partner
Spree Application
Ecommerce Database
Payment
Payment
Payment