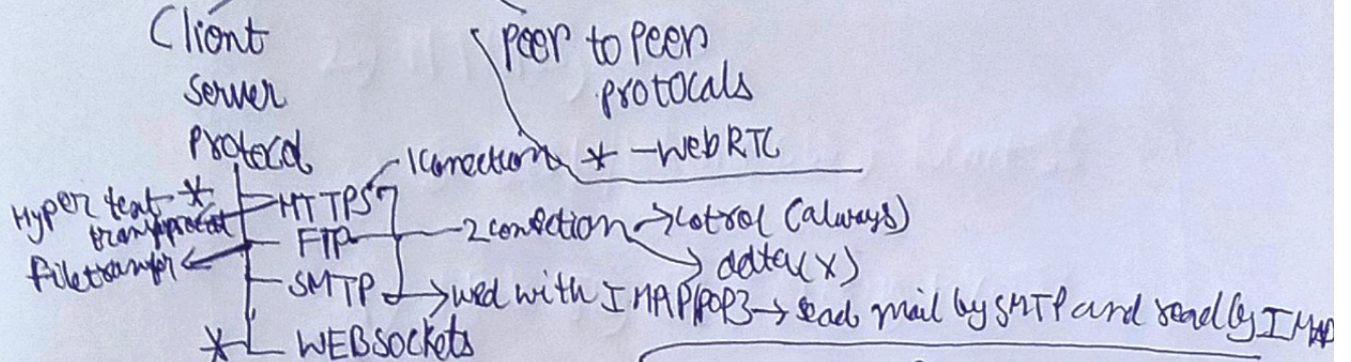


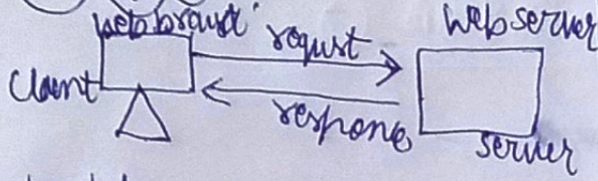
NETWORK PROTOCOLS

7 layers

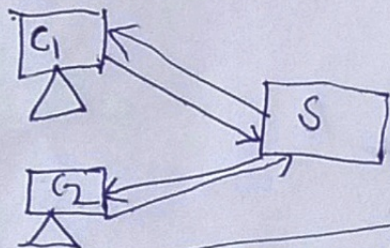
Application



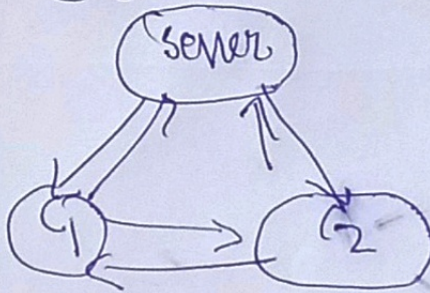
Client server:-



websockets



peer 2 peer

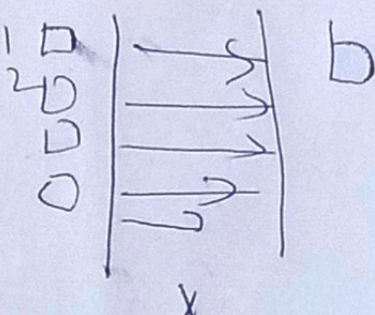
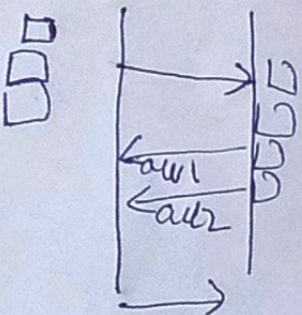


all can communicate with each other.

Transport / Network

TCP/IP

UDP/IC



acknowledgment ✓
ordering ✓
connections ✓
fast x

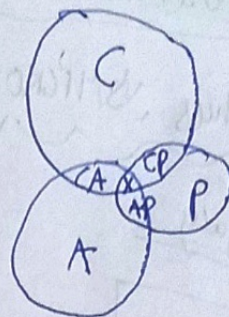
x
x
x
✓

CAP Theorem

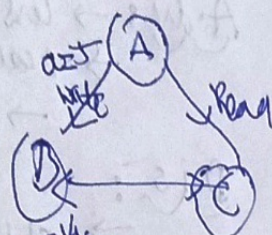
C → Consistency

A → Availability

P → Partition tolerance



Consistency



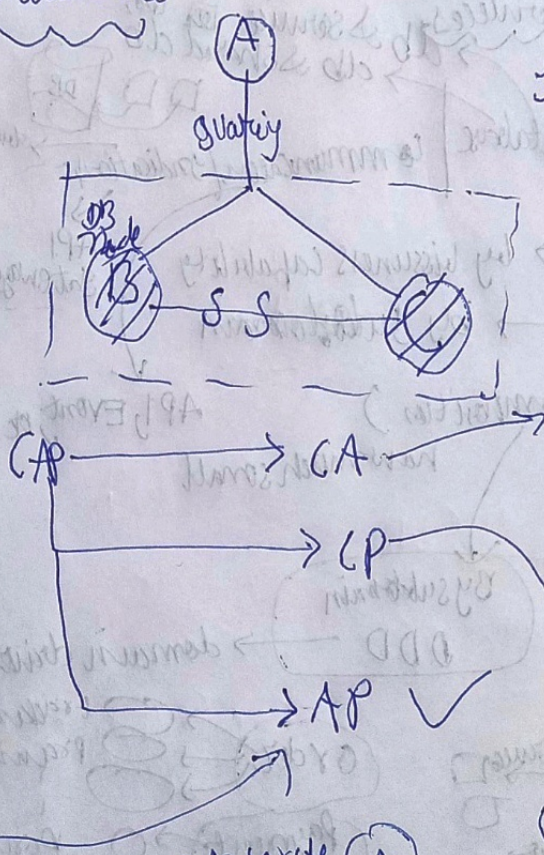
after successful write data remains consistent

Availability

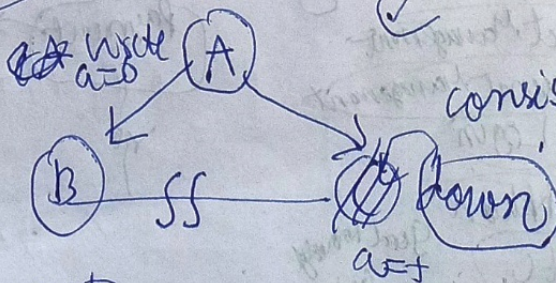
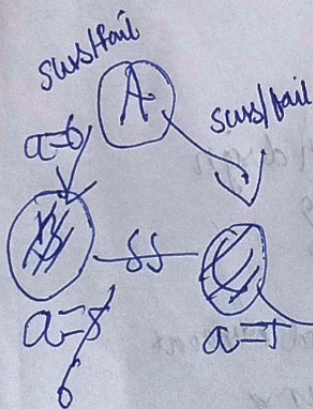
All nodes should respond irrespective of success & failure

Partition tolerance

System up

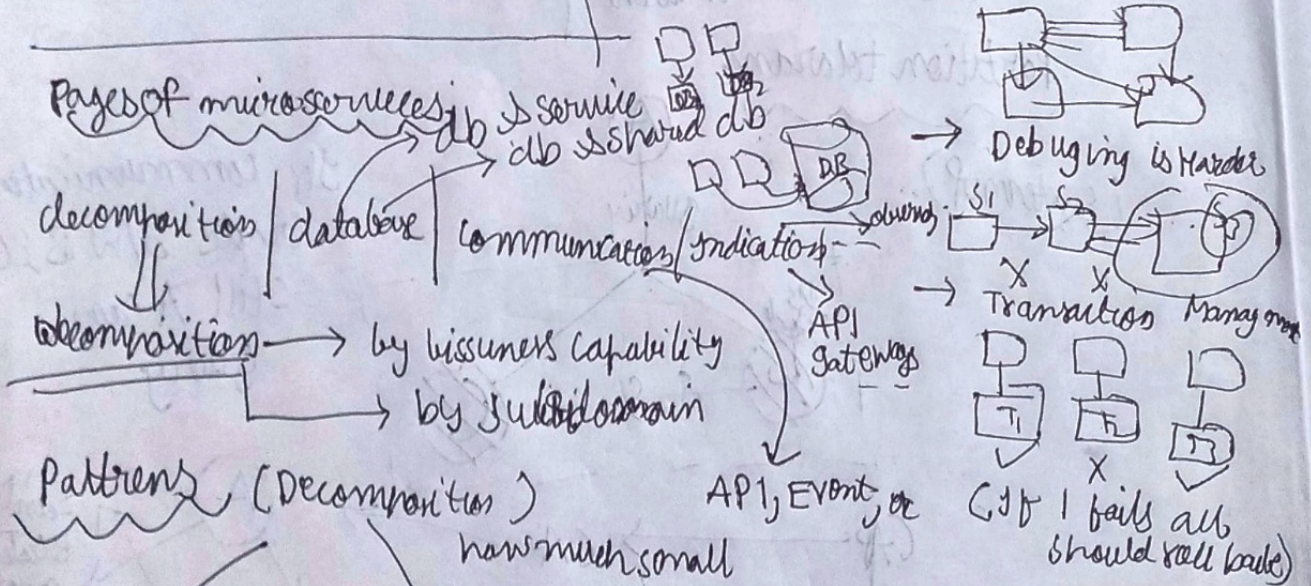
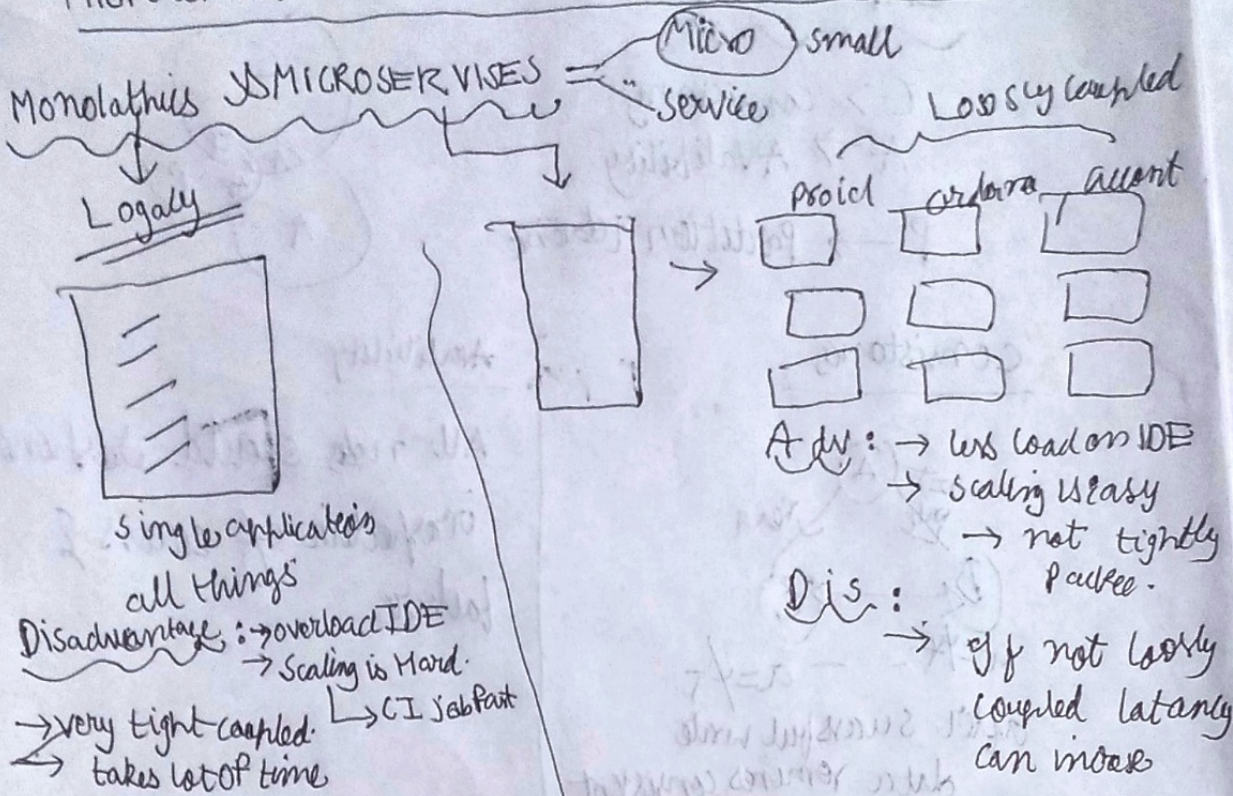


If communication breaks b/w B & C still A can query

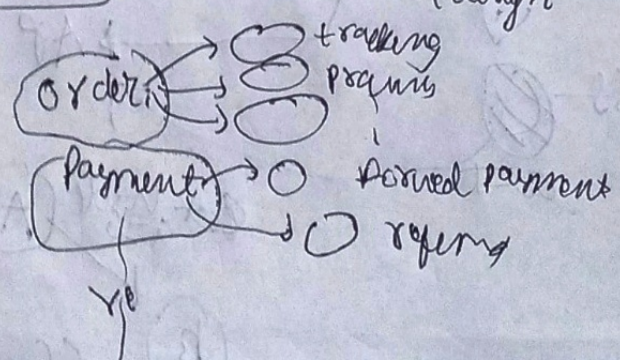


consistency availability

Microservices and its Patterns and Decomposition pattern



- By Business functionality/capabilities**
- Order Management
 - Product Management
 - Account Management
 - Login
 - Admin
 - etc



Good knowledge of business

Micro Service design pattern

