Amazon System

key takeaways:
- single entry point (API Gateway) to interact with client apps. consider graphQL.
- interservice communication with gRPC. type safety, backward compatible, etc.
- **prefer asynchronous communication**
- log based message bus for potential message playback.
- polyglot services: tech/language/db

example actions:
- create user
- update product
- fulfill order

example events:
- userCreated
- productChanged
- orderFulfilled

Mobile

Web

API call
[json/http]

API call
[json/http]

push

push

API Gateway
[graphQL]

Notification

subscribe

Event Bus
[log based]

API call
[gRPC]

API call
[gRPC]

API call
[gRPC]

user

product

search

auth

order

inventory

publish

subscribe