



Martin Chaov

Architecture Senior Manager @ Draftkings Inc.

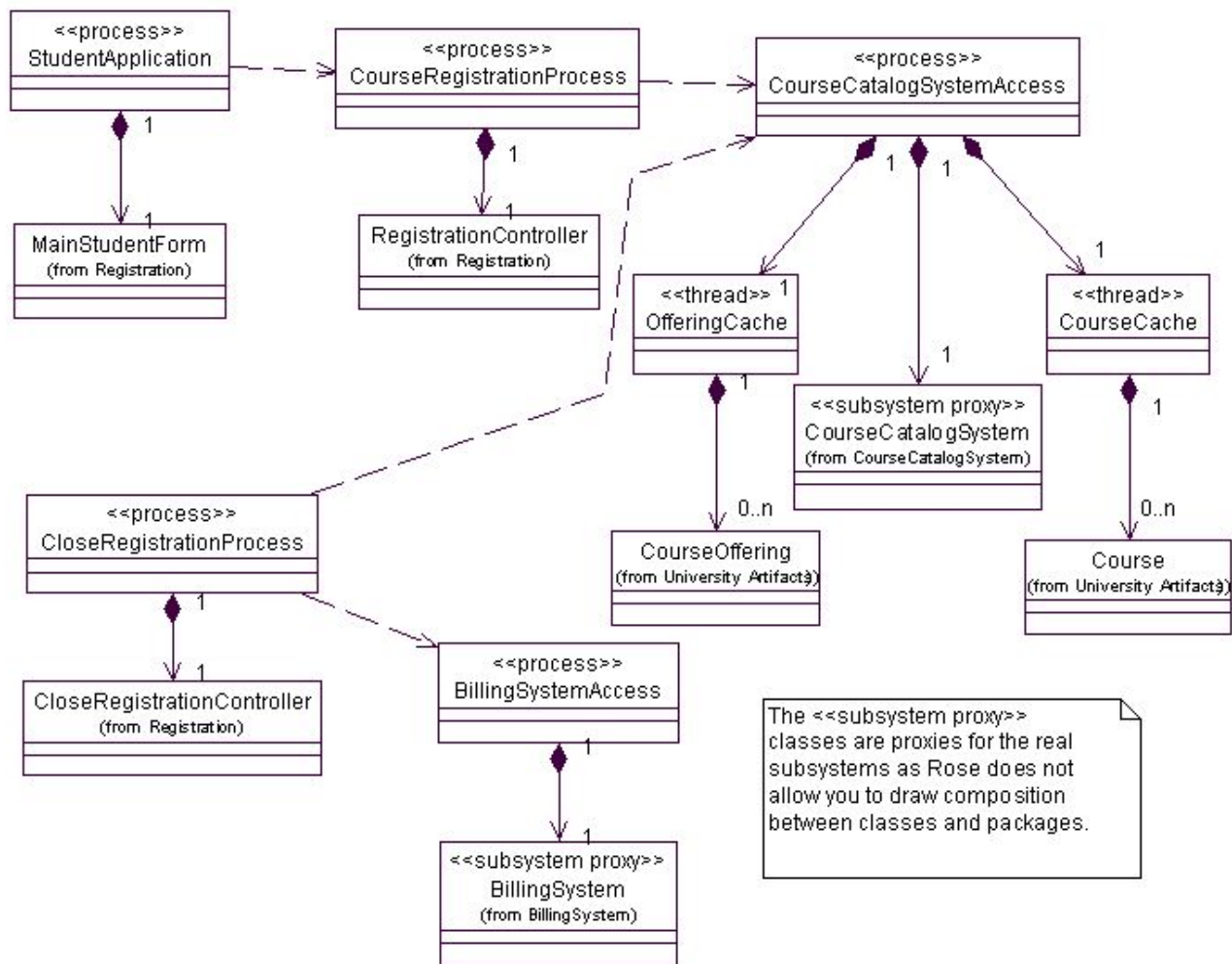
So, you think you do software architecture?



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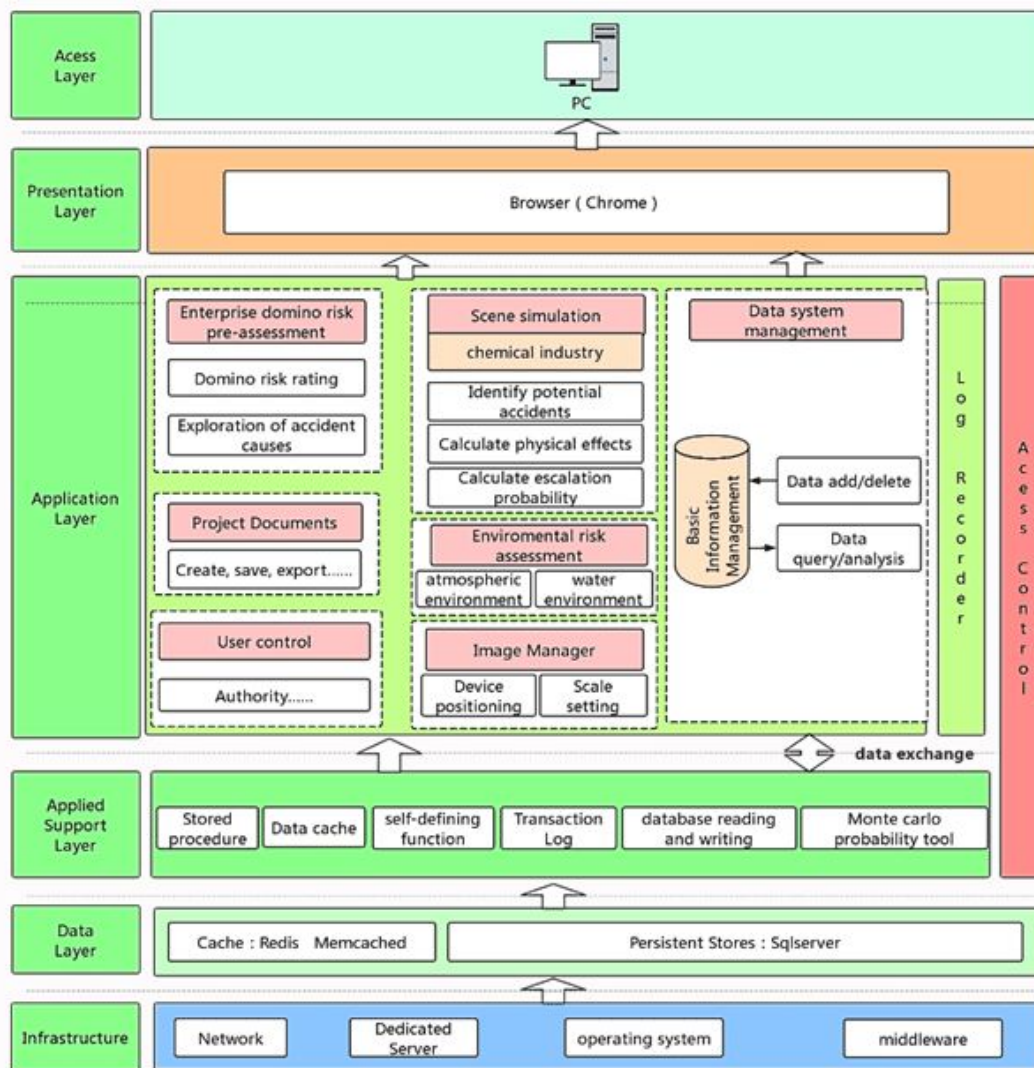
What is software architecture?



Software architecture is the fundamental structure of a software system and the discipline of creating such structures and systems.

The architecture of a software system is a metaphor, analogous to the architecture of a building.

Software architecture is about making fundamental structural choices that are costly to change once implemented.

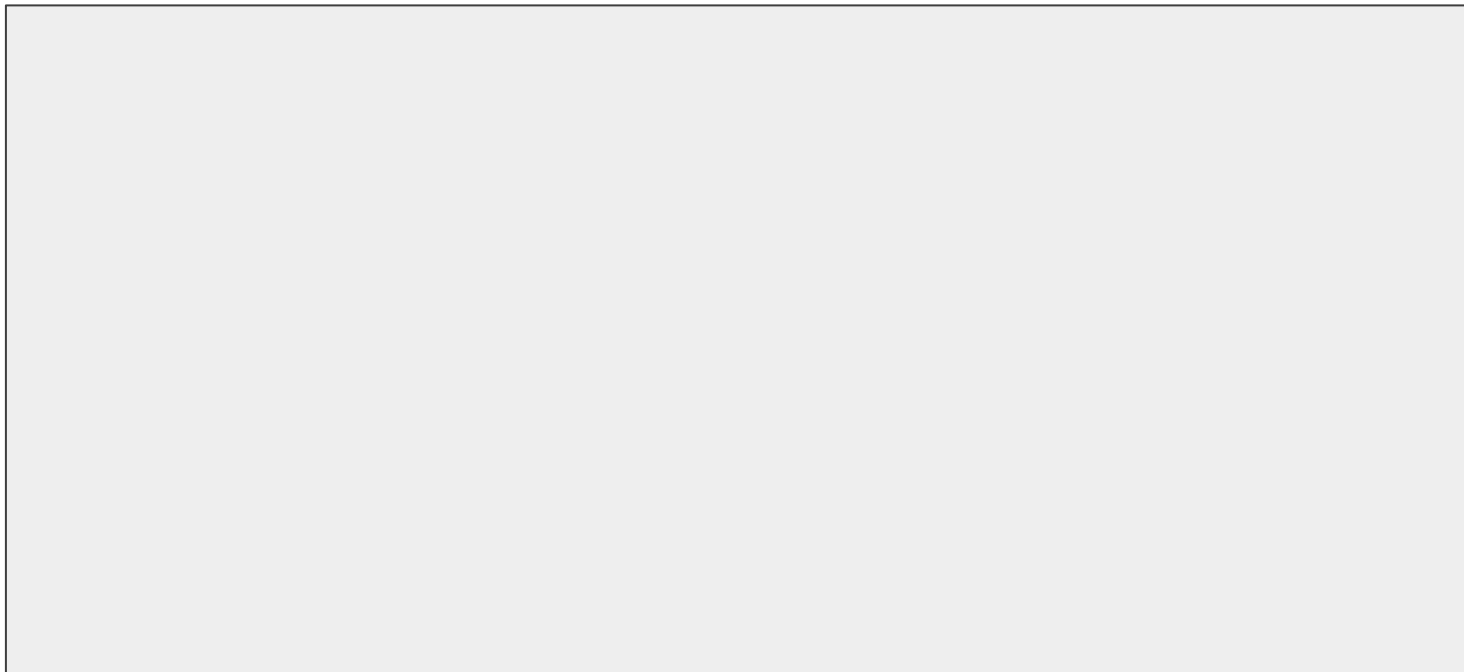


Conclusions based on previous slides

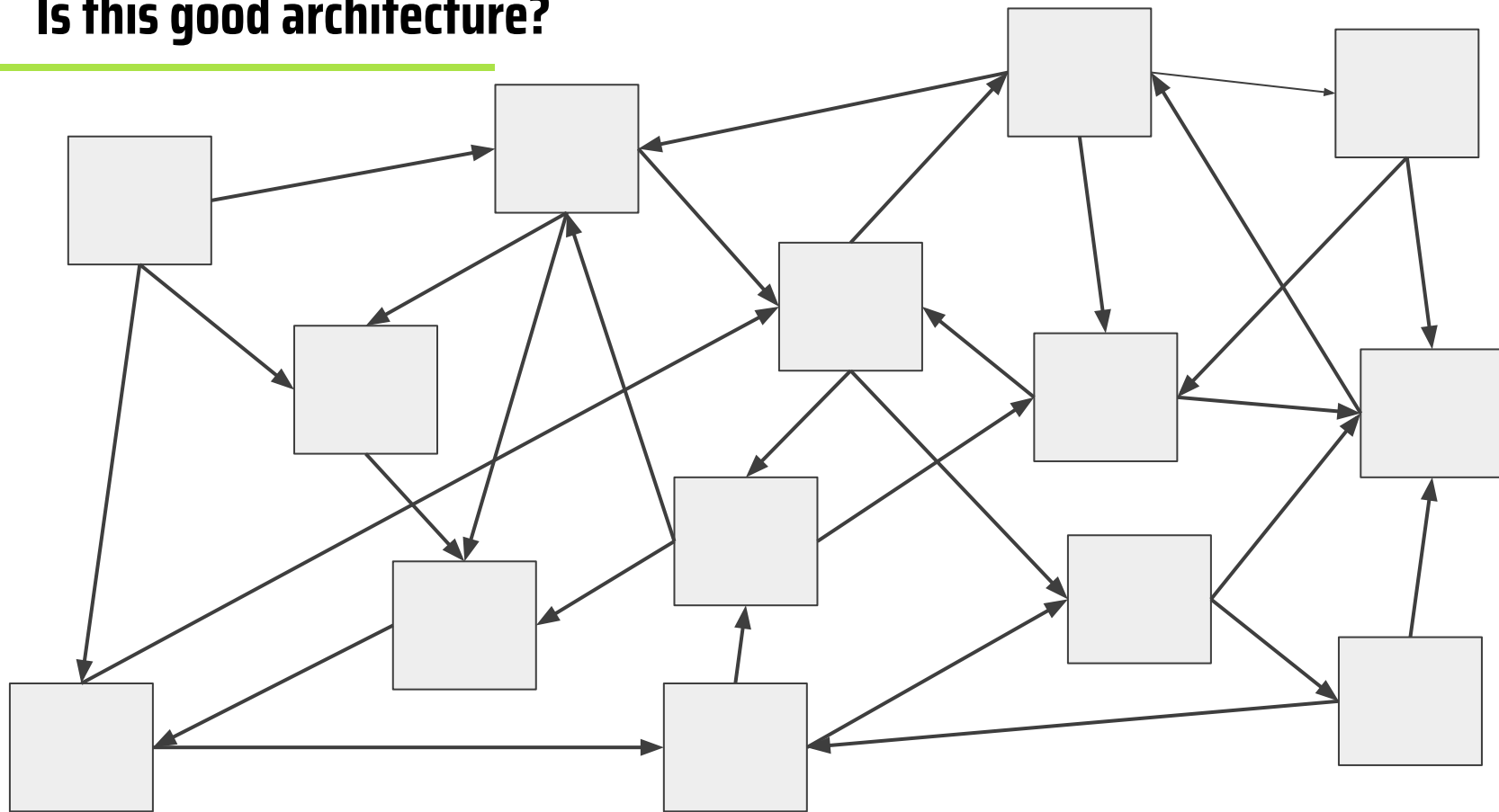
- SA == Magic

Design a car for me!

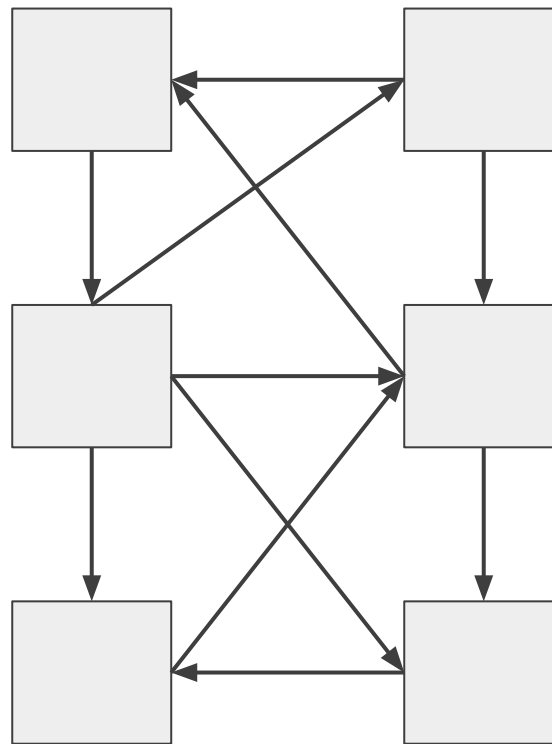
Is this good architecture?



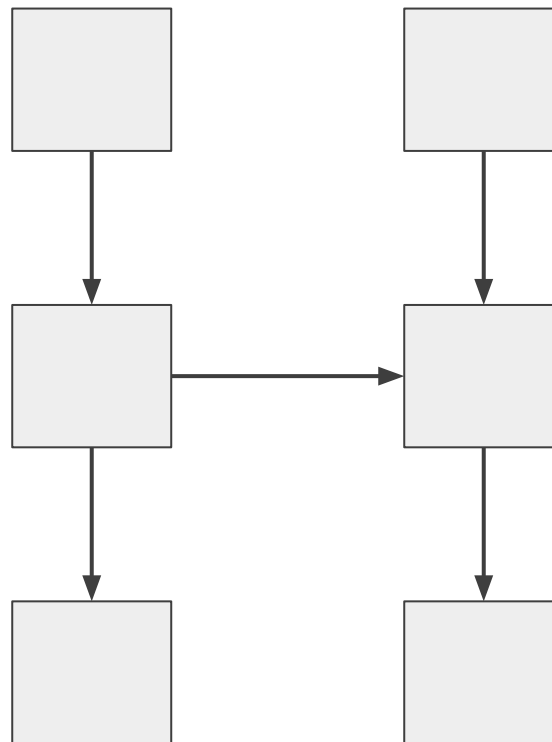
Is this good architecture?



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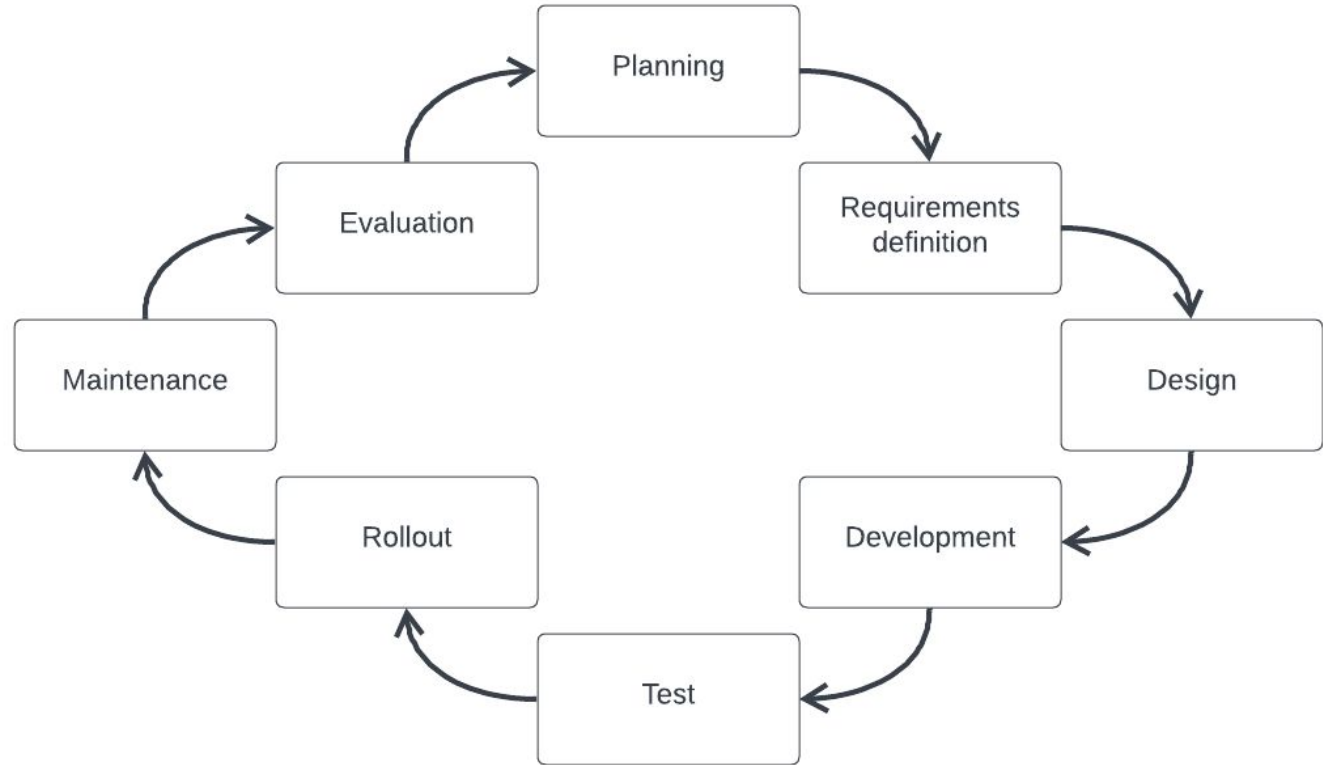


Is this good architecture?

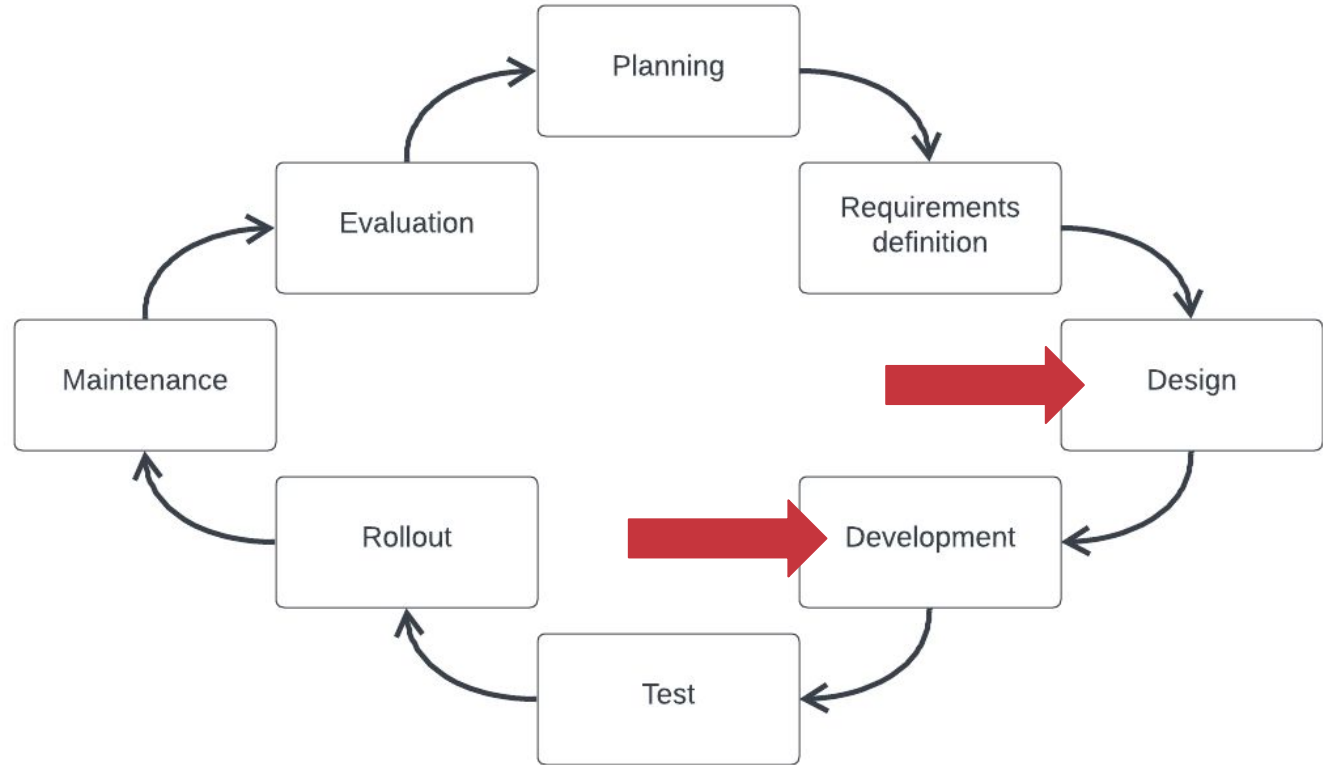


SA is a process!

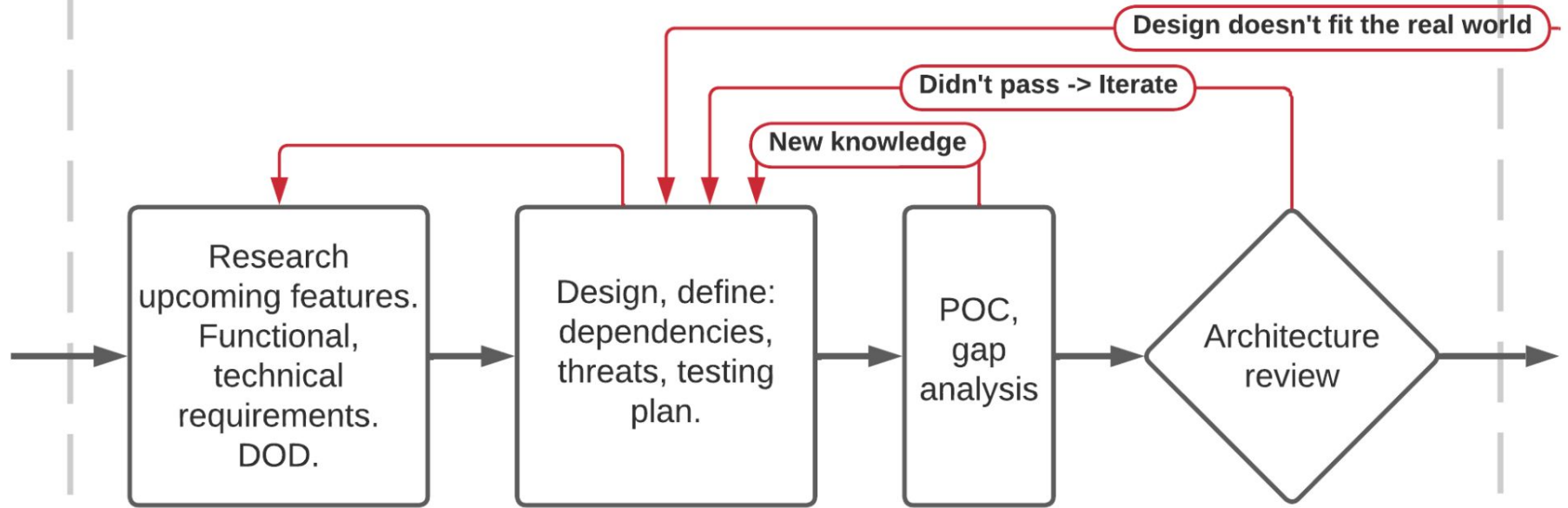
SDLC



SDLC

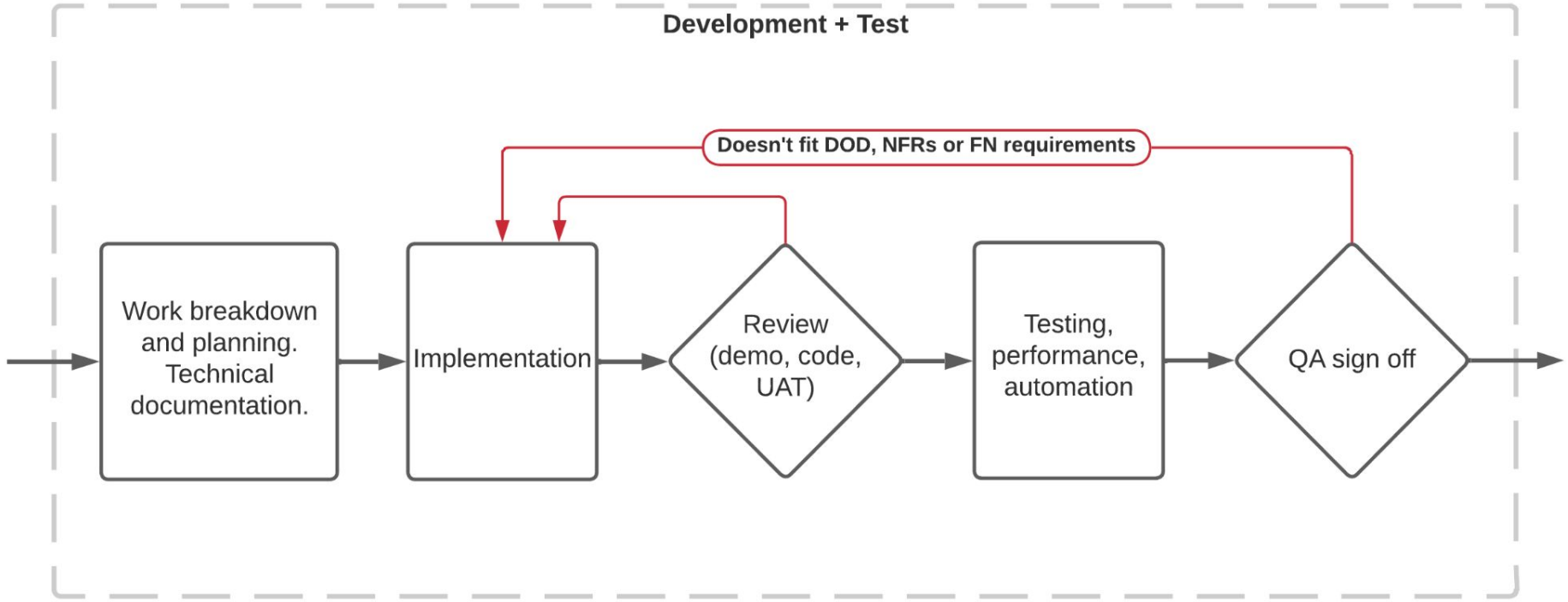


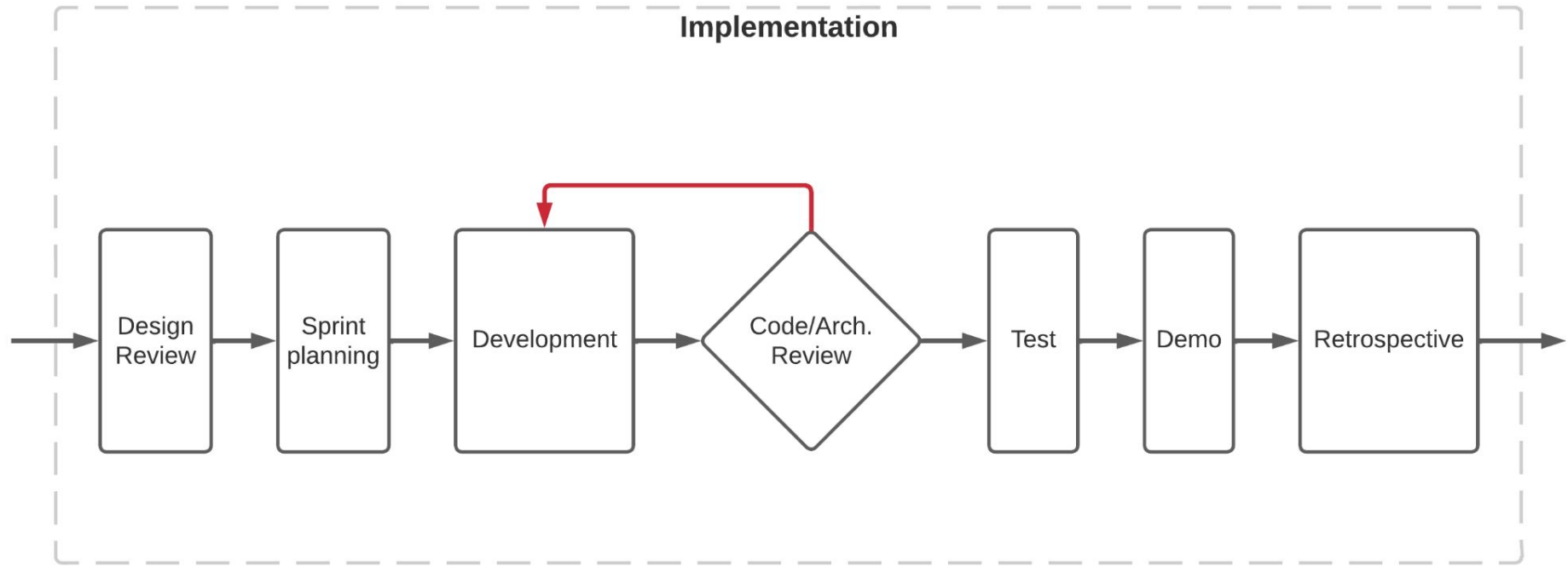
Discovery + Design



Deliverables - the SDD

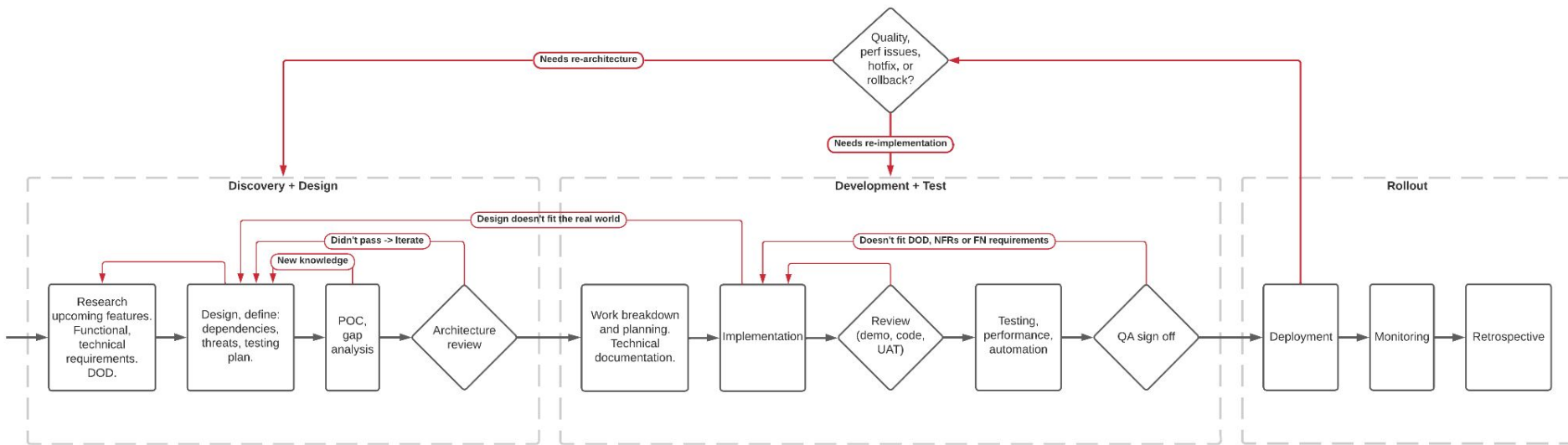
- Technical Requirements (NFRs)
- DOD checklist, SLAs
- T-shirt size estimation
- HLA
 - Decomposition of requirements
 - Use-cases
 - High level diagrams
- Threats, blockers
- Testing plan: affected area, test cases, etc.
- POC: working code, technical documentation/requirements for the real implementation
- Alerting
- Gap analysis: missing API features, protocol inefficiencies, contracts, etc.





What is the role of the architect?

Connecting the dots...



The role of the architect

- Requirements gathering and analysis
- How long it will take?
- How much it will cost?
- Provide options...

The role of the architect: Organizational

- Discovery and design
- Ensure expected outcome
- Retrospectives
- KPIs

The role of the architect: Technical

- Design for failure
- System TCO awareness
- R&D result quality
- Technological education
- KPIs



Q & A

Thank you!

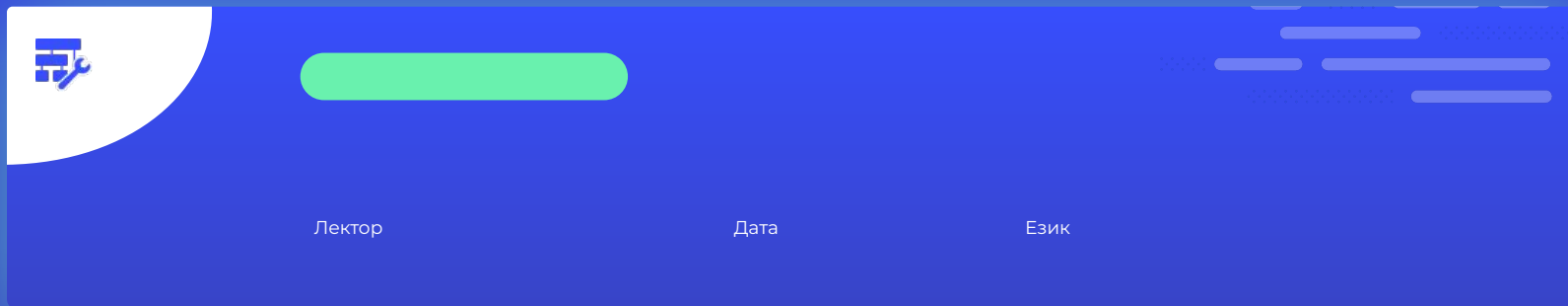
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