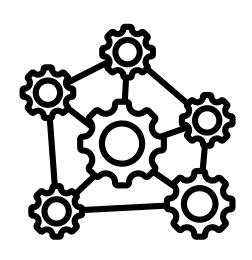
COMP 3550

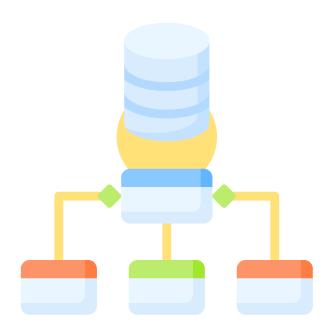
2.3 — ARCHITECTURE DIAGRAMS & SYSTEM BOUNDARIES

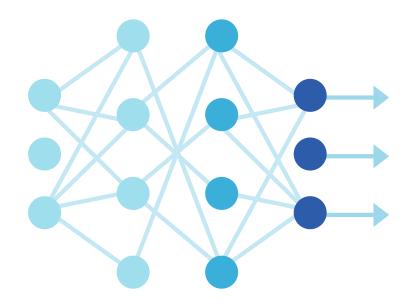
Week 2: Planning Artifacts & Project Architecture

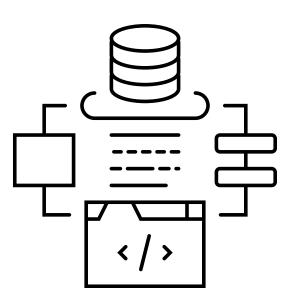


- Can you imagine going into building a LITERAL BUILDING with no architect? With no plans?
- Aid understanding
- Support onboarding
- Connect team discussions
- Can evolve not documentation "for the shelf"









COMMON ARCHITECTURAL LAYERS

- We work with an n-tier architecture
 - o more specifically, a 3-tier archiecture
- UI / Presentation
- Application / Logic
- Data / Persistence



Where does ScanManager live?

The ScanManager controls methods like numSecondsShowAnimation() or isScanButtonDisabled()?

presentation/ui

logic/business

Where does ScanManager live?

The ScanManager controls methods like numSecondsShowAnimation() or isScanButtonDisabled()?

presentation/ui

logic/business

ScanManager

What about ScanRingView?

The ScanRingView will house the work for actually displaying the pulsating rings of the scan animation.

presentation/ui

logic/business

ScanManager

What about ScanRingView?

The ScanRingView will house the work for actually displaying the pulsating rings of the scan animation.

presentation/ui
ScanRingView

logic/business

ScanManager

DIAGRAMS SHOULD SHOW:

- Major Components
- Interactions (e.g., arrows)
- Optional: technologies (e.g., SQLite, JavaFX)

objects/dsos

presentation/ui
ScanRingView

logic/business

ScanManager

DIAGRAMS SHOULD SHOW:

- Names should be obvious so you do not need arrows from class to class
- Add subpackages to add in this as well

presentation/ui

views
ScanRingView

logic/business
managers
ScanManager

fakies
ScanData

realsies

objects/dsos

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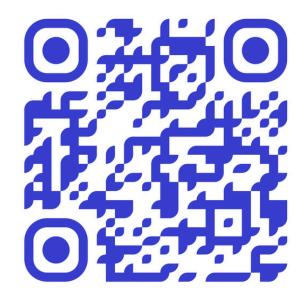
SIMPLE TOOLS TO USE

I don't care as long as it looks nice and I can read it

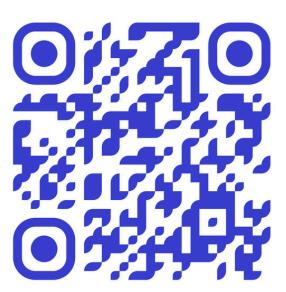
Draw.io

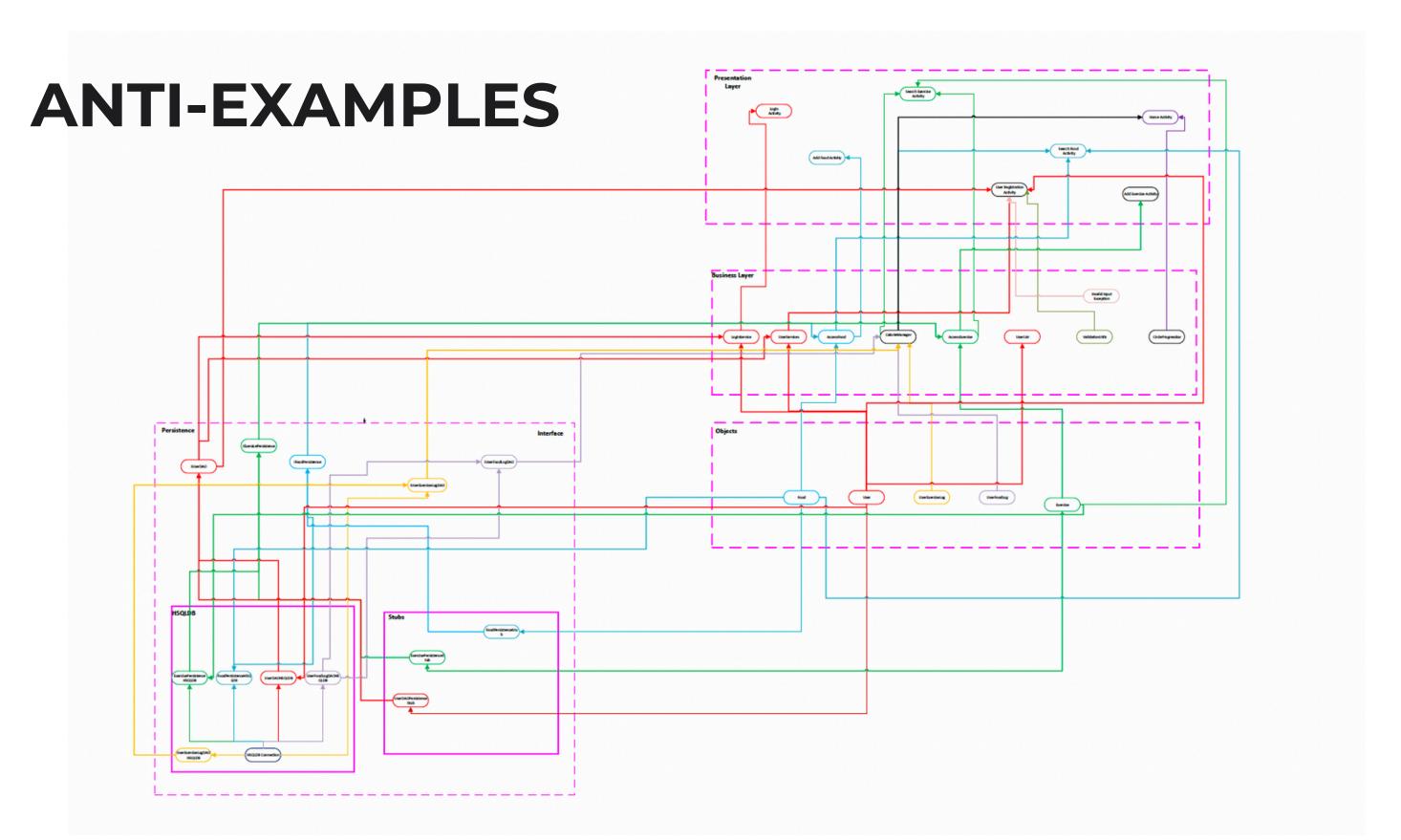


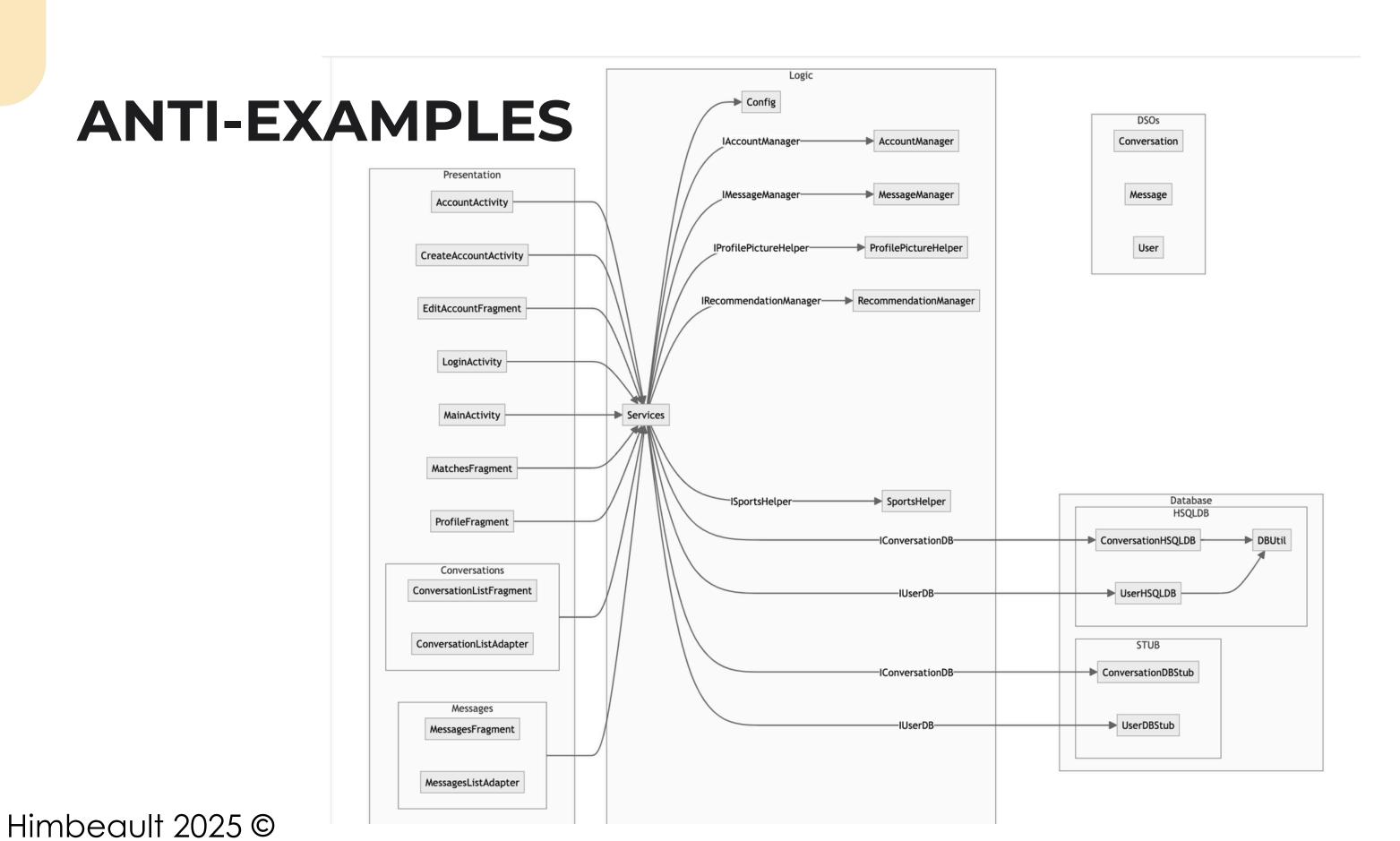
LucidChart



MermaidChart







PAUSE & REFLECT

Consider your current group project and sketch your initial system diagram with 3–5 labeled boxes and arrows.

Bring it to class and compare with your teammates.

Are you all on the same page or do you have some things to talk about?