University of Science, VNU-HCM Faculty of Information Technology

Software Architecture



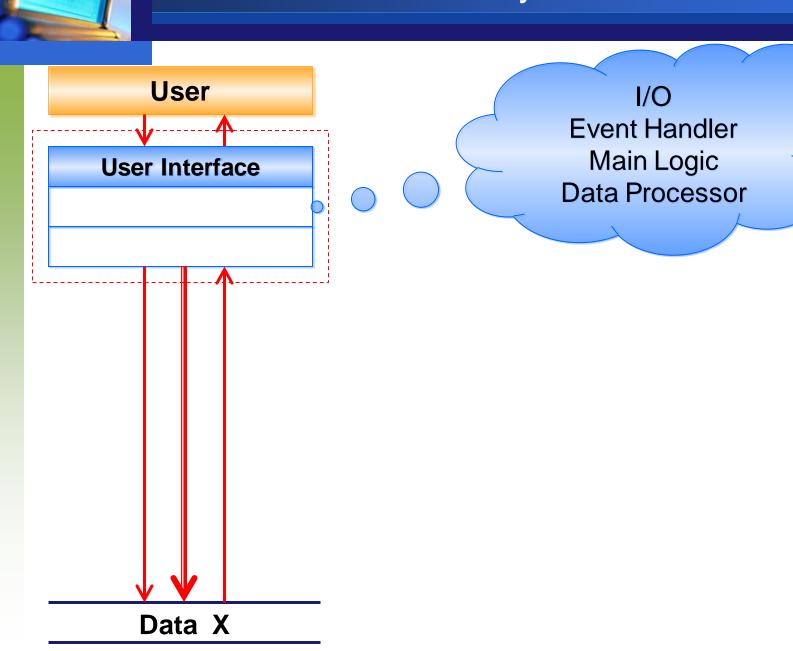


Software Analysis and Design

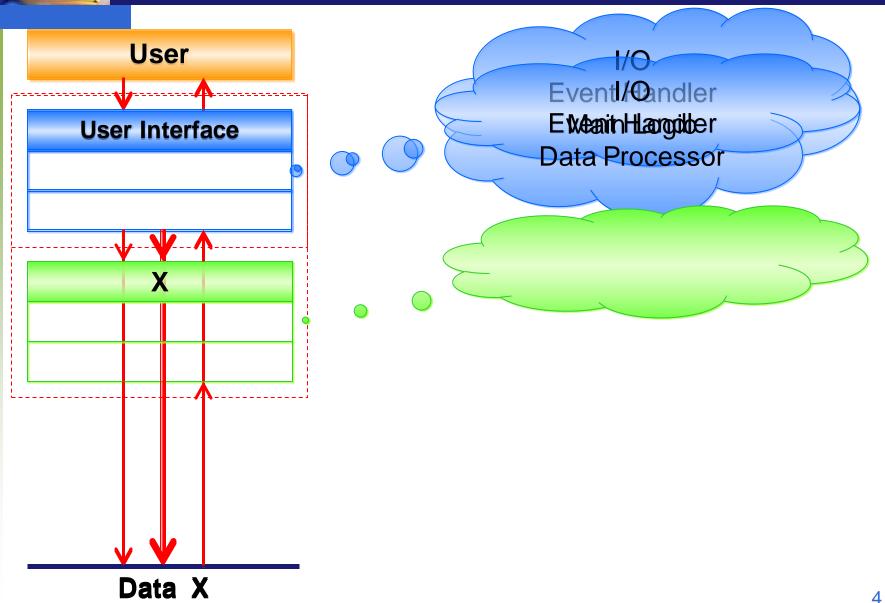
Nội dung

- Introduction
- Multi-layer Architecture
- Multi-tier Architecture

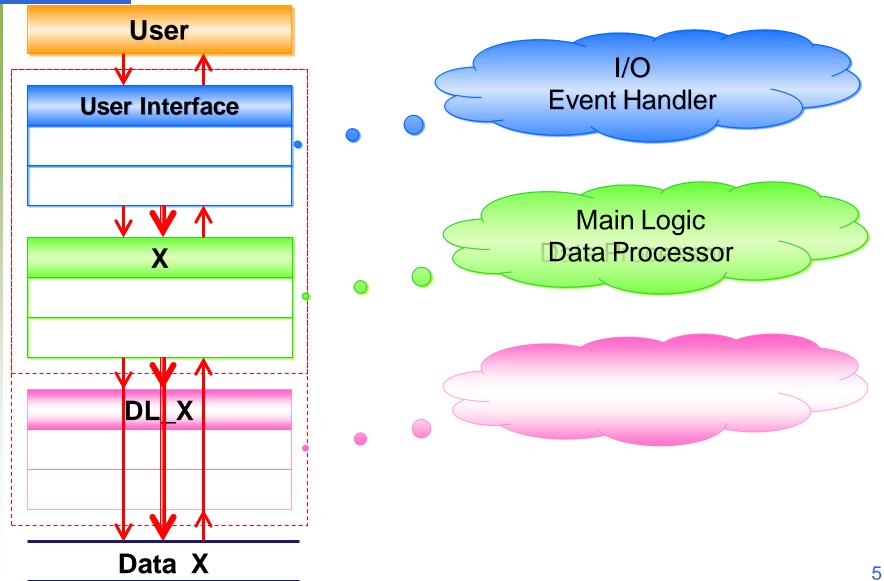
1-layer



2-layer



3-layer

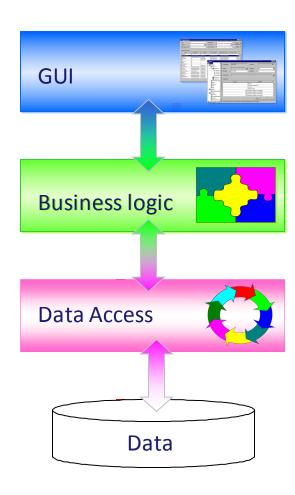


Layers?

- GUI (Presentation) Layer
- Business Logic Layer
- Data Access Layer



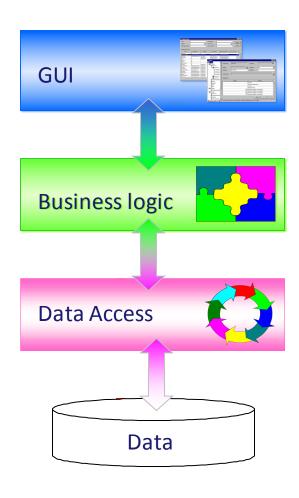
Communication between laysers



Raw data, data rows...



Communication between laysers



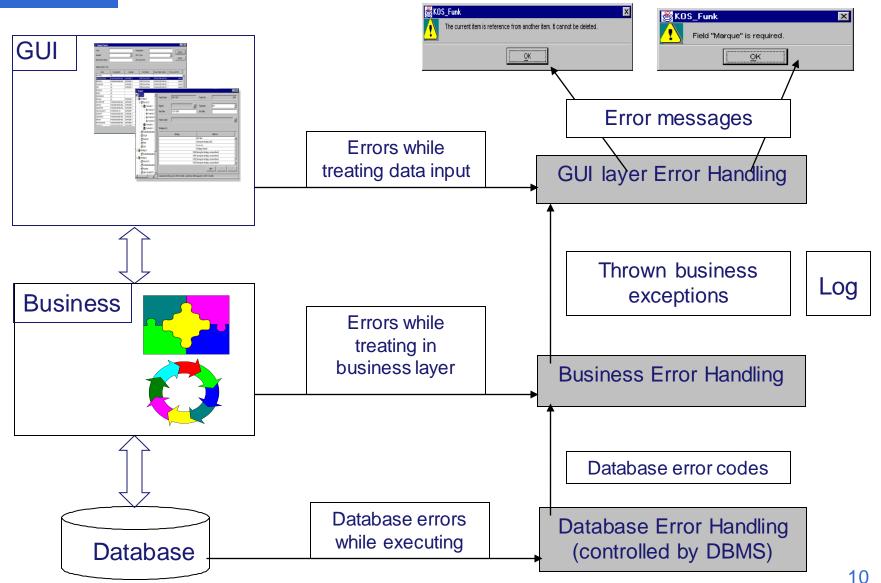
- Data Transfer Object (DTO)
- Raw data, data rows



Multi-layer Architecture

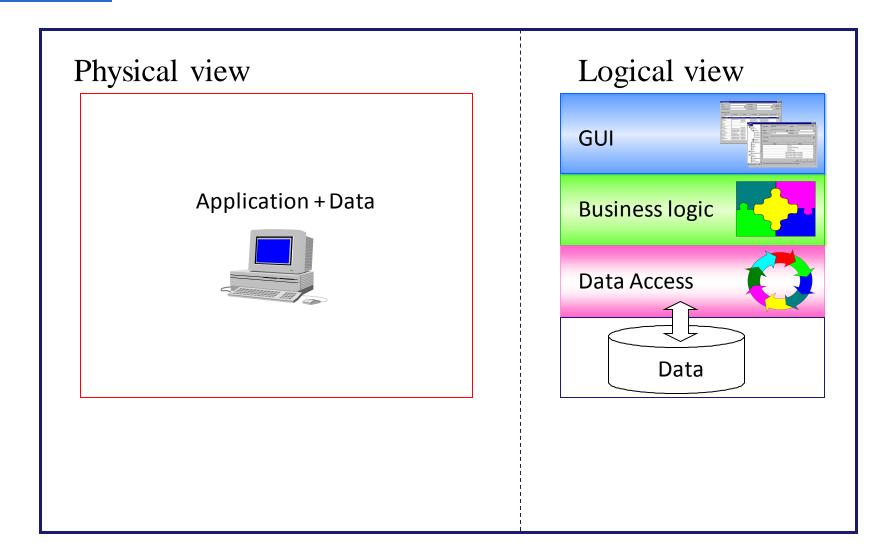
- Decoupling
- Re-usability
- Responsibility Delegation

Exception Handling

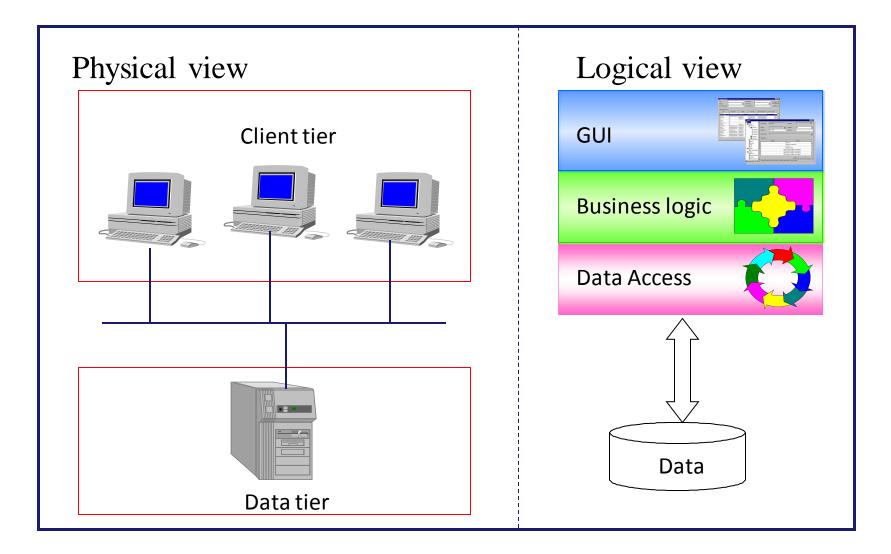




1-tier, 3-layer

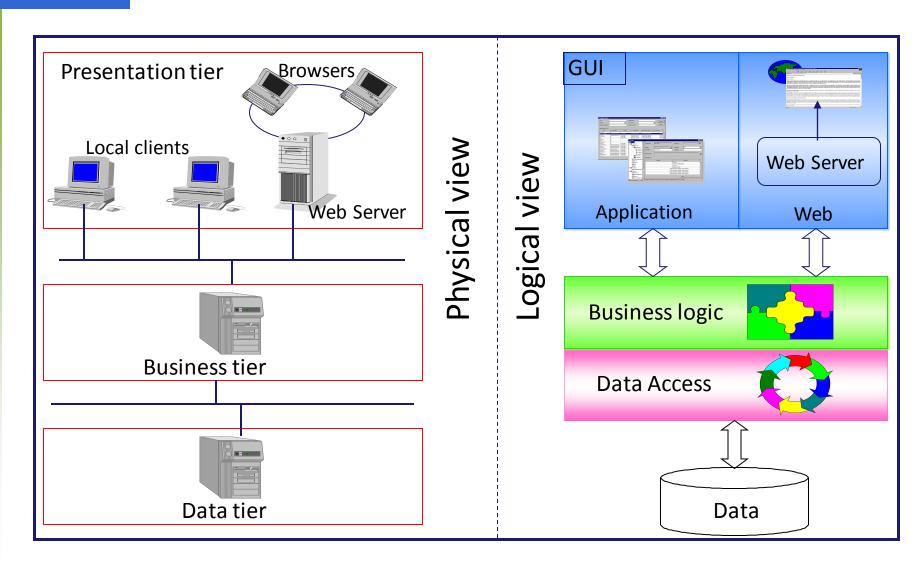


2-tier, 3-layer

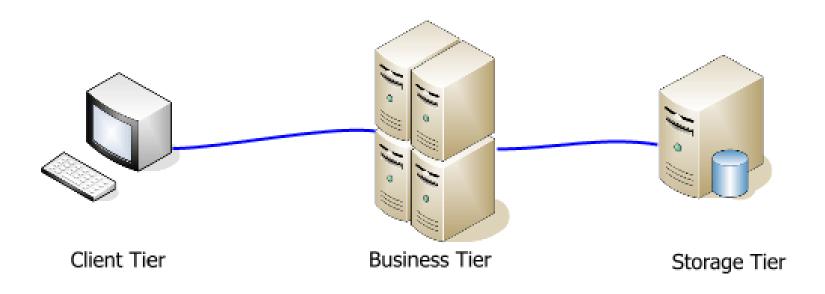




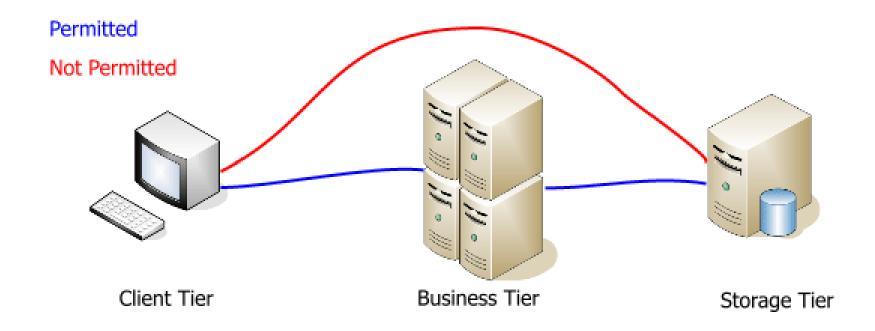
3-tier, 3-layer



Physical tiers

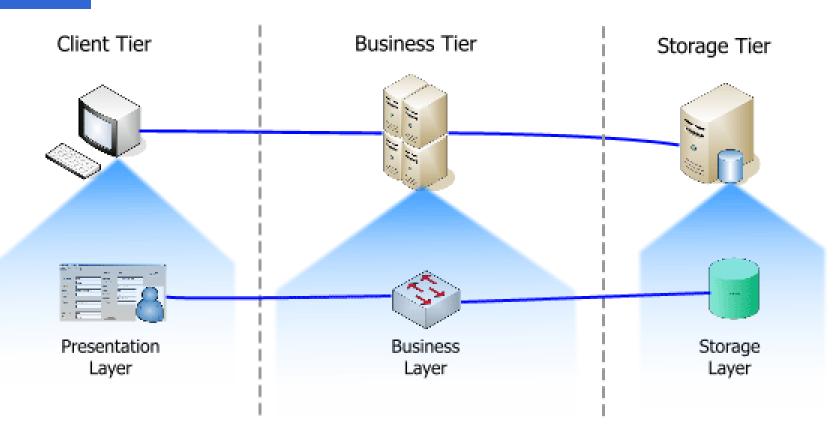


Physical tiers



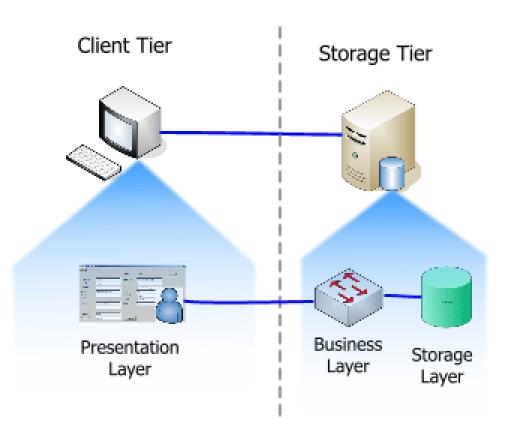


"Tiers of layers"



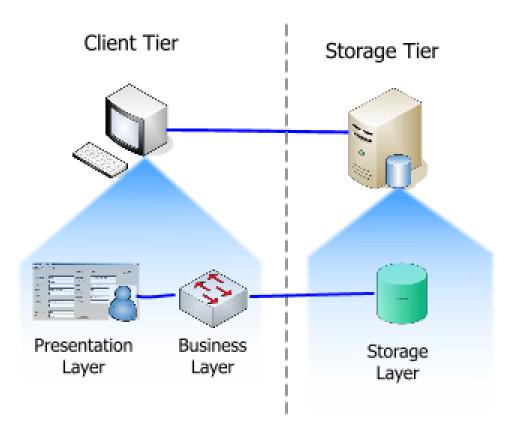


Business Layer at Storage Tier

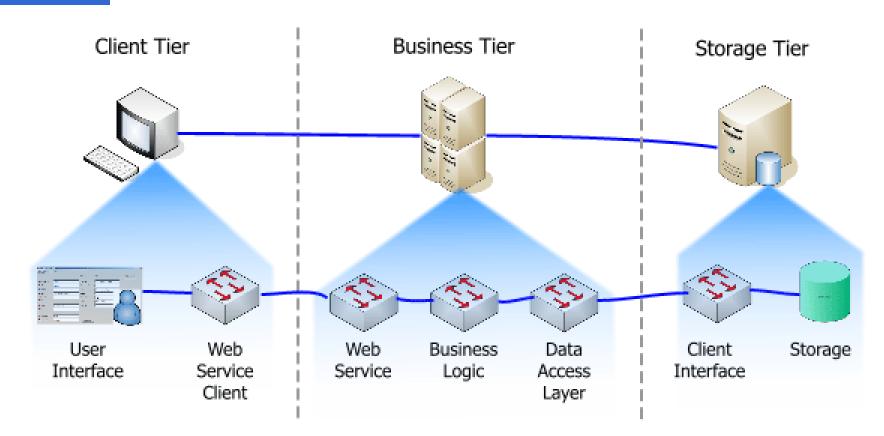




Business Layer at Client Tier









Presentation Layer

> Business Layer

Data Access Layer





