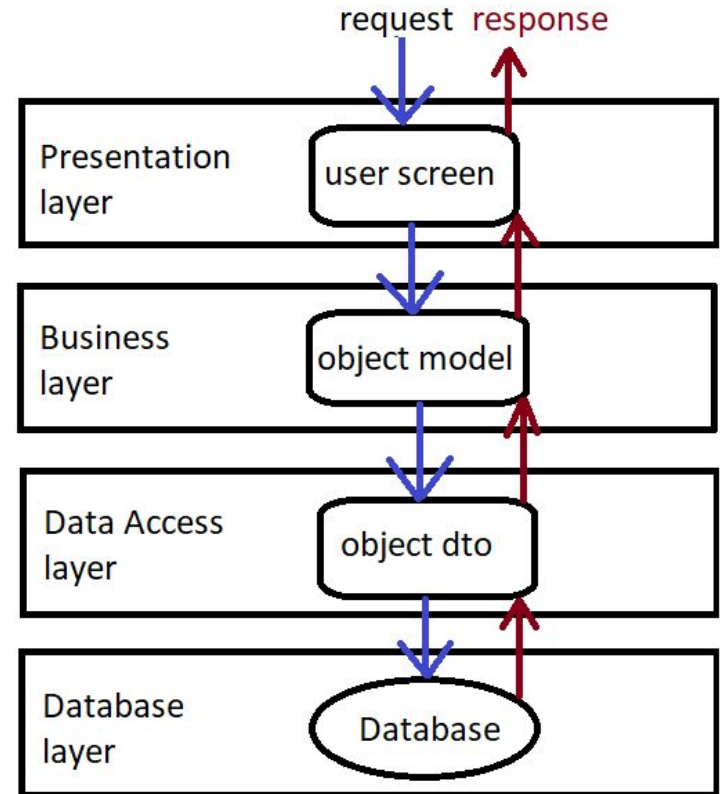# Lab 3

Software Design 2023

Today

- Lab materials
- Assignment 1 presentations
- Project progress & discussion

Lab materials - layered architecture

- Traditional method for software design
- Interconnected and isolated layers
- Advantage for keeping similar components together: changes in one layer will not affect the other layers
    - E.g.: changing the db from SQL Server to MySQL will affect only the persistence layer

Lab materials - project presentation

- **Presentation layer**
  - Works only with object models
- **Business layer**
  - Validates the user request
  - Makes the transition between the object Models and DTOs
  - Prepares the data for the next layer
- **Data access layers**
  - Works only with object DTOs

Assignments presentation & discussion

- Check deliverables on github
    - Source code
    - Sql script
    - Documentation
- Project presentation
    - Database modeling
    - Project architecture
    - 1-2 flows (layers traversal, validations, password encryption, factory method)
    - Unit Tests

Project progress & discussion