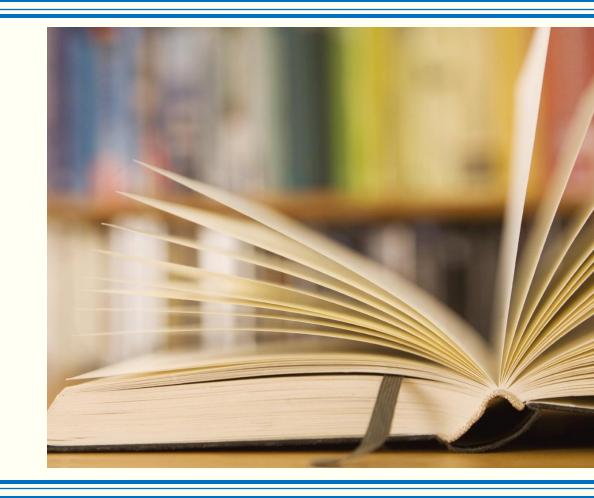
ENTERPRISE ARCHITECTURE

Najeeb Najeeb, PhD

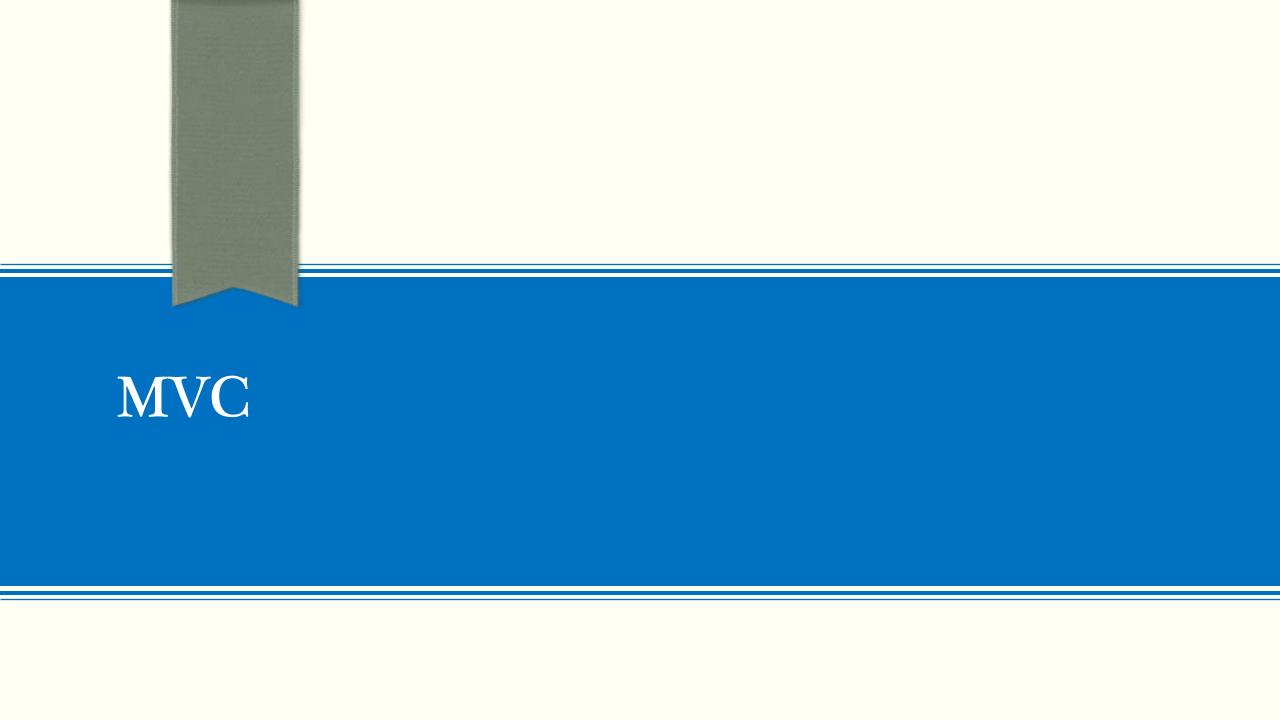
Version 2.1 ©2022



LESSON 08 LAYERED ARCHITECTURE

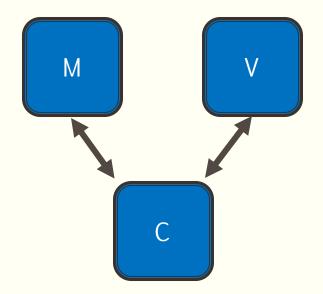
Layer VS Tier

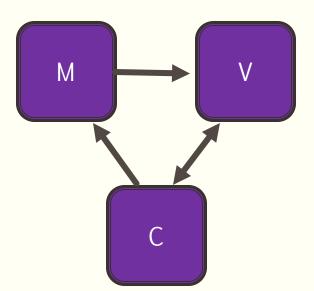
- What is a layer?
- What is a tier?
- We mix both?
- Why do we need layers?
- Why do we need tiers?
- Example of layered architecture

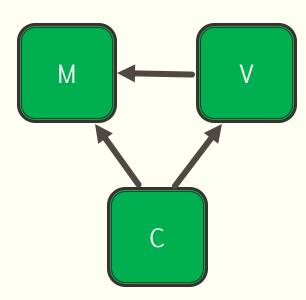


MVC

- Separation of concerns
- Benefits?
- Layers? Tiers?
- MVC, MVVM, MVP, MVW







LAYERED ARCHITECTURE

MVC Layers

View

Control

Model

View

- UI Technology
- UI Validation

Controller

- Understand User Technology
- Business Rules

MVC Layers

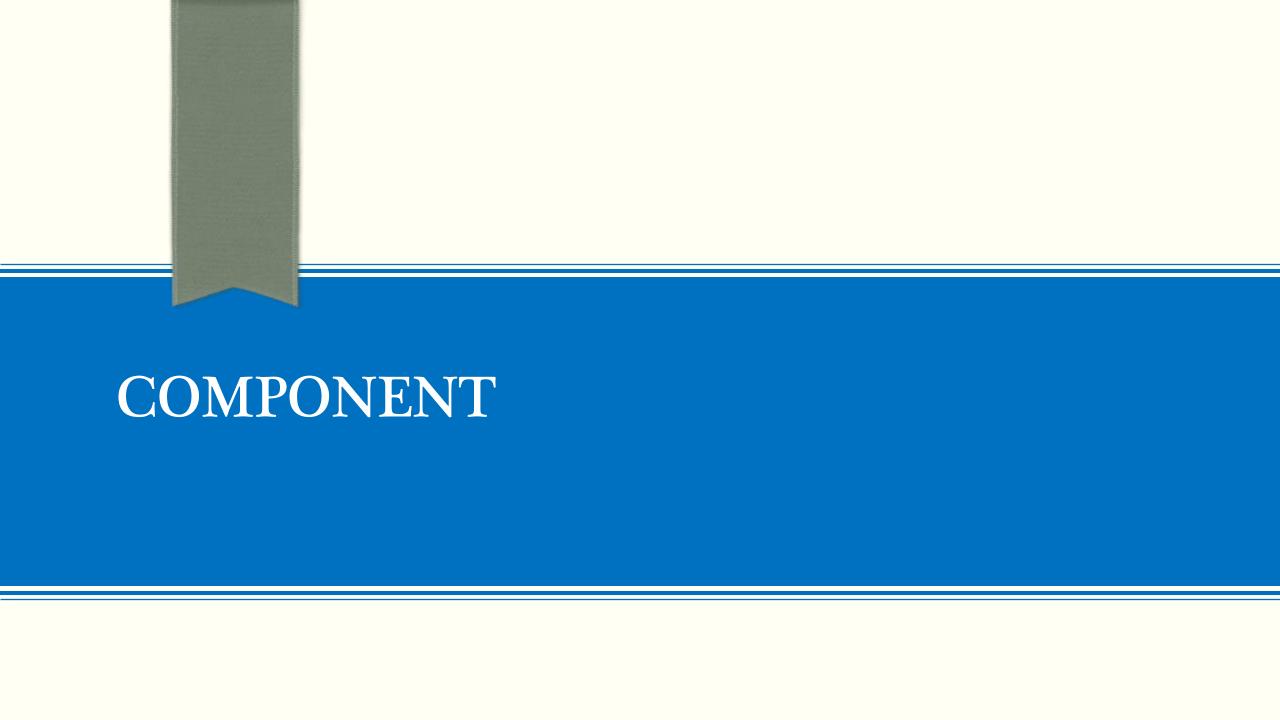
View Control Service Model

Model

- Domain Objects (Business)
- Persistence Technology

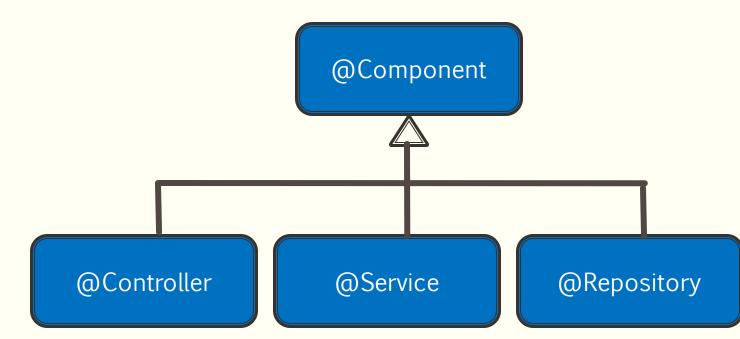
MVC Layers

View Control Service Domain Persistence



Using Components

- XML
 - <contex:component-scan basepackage="edu.miu.cs544.najeeb" />
- Java
 - @ComponentScan(basePackages = "edu.miu.cs544.najeeb")



Main Point

- Layered architecture is very helpful to achieve separation of concern. Separation of concern (SoC) enables the faster growth of companies. SoC enables teamwork and better unit testing. By each developer focusing on their part the whole prject grows much faster.
- The Maharishi Effect states that if a group of individuals regularly practice TM at the same time, they will create a beneficiary impact for everyone and a larger group of people.