DailyHW\_Day1\_Week7

04/04/2022

Notes and Q&A:

<https://docs.google.com/document/d/1O7ogrWUuttxBATKADPk98zPqyQcgCWbdF18YKx0xcSQ/edit?usp=sharing>

Checklist:

<https://docs.google.com/document/d/1fmYhFHUIy44UIId1fpUUV-vWt9RdjD0ghkv9n5PqzBw/edit?usp=sharing>

1. What have you reviewed today?

Application Architecture

MVC pattern

* Model
* View
* Controller

Frontend-backend separation

* Backend servers send data to frontend through APIs using JSON and other formats.
* Frontend includes the UI related elements and rendering logic.

3 tier architecture

* Web layer
* Service layer
* Data layer

Monolithic

* Pro:
* Simplicity of development, debugging, deployment
* Cross-cutting concerns and customizations are used only once
* Low cost in the early stages of the application
* Con:
* High code coupling
* Lack of flexibility
* Problem of deployment

SOA

* Service oriented architecture
* Focusing on interaction and integration between independent services, usually using a service bus, SOAP or messaging system.

Microservice

* Service Discovery
* Eureka, AWS
* Communication
* Http, restful api
* Log tracing
* Spring Cloud Sleuth, Zipkin
* Config Server
* Fault Tolerance
* Spring Cloud Sleuth

1. What new things you have learned today?

**Local Environment -> Dev -> Test/Integration -> UAT -> Production Environment -> Users**

We use GIT/ Bitbucket/ Gitlab for version control and Jenkins for CI/CD

Usually, a small team is made of 1 manager, 1 product owner, 1 scrum master, 1 tech lead/ architect, 5 developers, 1 QA, 1-2 BA, 1 DBA, 1 DevOps

1. What is your learning plan tomorrow?

* 2 coding questions
* Review Java Core