JACKSON

JSON

RestController

SOA

Android app

IOS APP

Angular app

Java Monolithic app

View

Controller

Spring challenges

1. Initial configuration – BootStrapper
   1. WebContext
   2. DispatcherServlet
   3. Loading the Configuration Class
   4. Scanning the base package
2. Dependency management - version
3. Web app deployed as a war and tomcat to be configured

Spring Boot -- Plugin to create Spring app

1. BootStrapper program
2. Starter POM - Eg. Web
3. Jar or war -- java -jar demo.jar
4. Tomcat is embedded
5. Production Ready

SOA – Rest API – Representational State Transfer

Data in form of JSON.

Book

BookServiceI

books

Book

H2 db, JPA

http://localhost:8081/bookstore/api/books

App

DB

BookRepo

BookService

RestController

BookController

EndPoints

<https://www.udemy.com/course/kickstart-spring-boot/?couponCode=1FCE16548C684A96E11F>

Transaction – ACID – compliant- Atomic Consistent Isolated Durable

MongoDb – No SQL DB

Cassandra

Ldap – Light Directory Access Protocol -- .ldif

MyUser

KeyCloak – platform

MyUserService

UserRepo

Controller

users

SecurityConfig

JWT

1. Authentication
2. Generate Token
3. Validate token

JwtFilter

UI token

Controller

Authenticate

/user/hello

JwtUtil

UserRepo

MyUserService

Authorization

Bearer

eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJ1c2VyMSIsInByb2plY3RfbmFtZSI6ImJvb2tzdG9yZSIsImV4cCI6MTY1MTgxNzg5MSwiaWF0IjoxNjUxODE0MjkxfQ.mxT\_ia8teDKQV9I0Ay\_yGWnHJ-F1o5LJLfufjj3golM

Messaging Systems

synchronous

asynchronous

orderservice

Book-service

MOM

data

PaymentService

Cab Service

Payment-Service

Order-service

Book-Service

JMS – Java Messaging Systems – ActiveMQ (MOM-Broker)

Kafka – Messaging system

https://www.udemy.com/course/jump-start-microservices-on-spring-boot/?couponCode=EC449AAC78B61A885B01

Externalized Configuration

BS

GIT REPO

ConfigServer

PS

ConfigClient

Application.properties

TOPIC

OS