loC

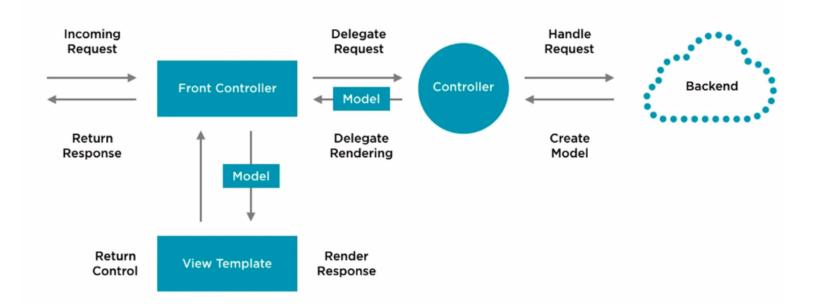
```
@SpringBootConfiguration
@EnableAutoConfiguration
@ComponentScan(
    excludeFilters = {@Filter(
        type = FilterType.CUSTOM,
        classes = {TypeExcludeFilter.class}

), @Filter(
        type = FilterType.CUSTOM,
        classes = {AutoConfigurationExcludeFilter.class}

)}

public @interface SpringBootApplication {
```

Request / Response Lifecycle



MODEL-VIEW-CONTROLLER

```
@Component
public @interface Controller {
    @AliasFor(
        annotation = Component.class
    String value() default "";
```

```
APPLICATION FAILED TO START
Description:
Web server failed to start. Port 15000 was already in use.
```

www.youtube.com/c/javaexpress Contact Number: +91 8555929285 (New Batch Going to Start in this week - 8.30 AM/8.00 PM) 1. Spring Boot Internals 2. Spring Data JPA 3. Spring MVC 4. Restful Services

- 1) What is Spring Framework? 2) Spring vs Spring Boot ?
- 3) Advantages of Spring Boot?
- 4) Environment Setup
- 5) Spring Boot Application

 - a) Spring Initialer b) STS (Spring Tool Suite)
- 6) Spring Boot Starters
- 7) Main Class in SpringBoot
- 8) @SpringBootApplication
- 9) Autoconfiguration in SB
- 10) Spring Boot Internal Working
- 11) Spring IOC Container
- 12) Setter Injection
- 13) Constructor Injection
- 14) Field Injection
- 15) Autowiring & Qualifier
- 16) Component Scanning
- 17) Spring Boot Customer Banner
- 18) Runners in SpringBoot
- 19) Application Runner
- 20) Command Liner Runner
- 21) Stereotype Annotations

- 1) What is Spring Data?
- 2) Spring ORM vs Data JPA
- 4) ORM Basics
- 5) JPA Annotations
- 6) CRUD Repository

- 9) @Query Annotation
- @Query
- 11) HQL Queries using @Query
- 12) Positional & Named **Parameters**
- 13) Read Queries using Properties
- 15) Pagination using JPA
- 16) Sorting using JPA
- 17) Custom Generators

AUTO

create update

- 3) What is Persistence Layer?

- 7) JPA Repository
- 8) Repository Methods
- 10) Native SQL Queries using

- 14) Find By Methods in Spring
- Data JPA

- IDENTITY
 - SEQUENCE
- 18) Schema Generation
 - validate
 - create-drop

- 1) What is Web Application?
- 2) MVC Architecture ?
- 3) Front Controller Design Pattern

JAVA EXPRESS - SPRING BOOT MICROSERVICES ONLINE TRAINING

- 4) Dispatcher Servlet
- 5) Handler Mapping
- 6) View Resolver
- 7) Model, Model and View
- 8) @ModelAttribute
- 9) @Controller Annotation
- 10)@Response Body
- 11) Send Controller to UI
- 12) Send UI to Controller
- 13) @RequestParam
- 14) @PathVariable
- 15) Embeded Containers
- 16) Embedded Database (H2)
- 17) Spring Boot Actuator
- 18) Exception Handling in Spring
- 19) Thymeleaf Integration with **Spring Boot**
- 20) Email Sending in Spring Boot

1) What is Distributed Application

- 2) Distributed Technologies
- 3) Evolution of Web services
- 4) SOAP Based Web Services
- Architecture
- 5) What is WSDL File in SOAP?
- 6) REST Architecture Principles
- 7) Rest Resource & Rest Client
- 8) HTTP Methods 9) Http Status codes & Messages
- 10) @Rest Controller
- 11) Difference between
- @RestController vs @Controller
- 12) Spring Annotations
- 13) Swagger Documentation
- 14) OPEN API Integration
- 15) Spring Boot Profiles
- 16) Spring Boot Logging
- 17) Rest Template, Web Client
- 18) Reactive Programming 19) Spring Boot Security Form Based Auth Http Basic Auth
- Role Bases Auth 20) HATOES
- 21) Rest Client Using Node JS &
- 22) Running SB in Docker Container

5. Micro Services

- 1) Monolithic Architecture 2) Drawbacks of Monolithic
- Architecture 3) Introduction to Microservices
- 4) Challenges in Microservice's
- 5) Advantages of using
- Microservices
- 6) Microservices Architecture
- 7) What is Service Registry?
- 8) Eureka Server
- 9) Eureka Client
- 10) API Gateway (Zuul Proxy) 11) Feign Client (Interservice
- Communication) 12) Spring Boot Actuators
- 13) Spring Boot Admin Server &
- Admin Client 14) Read Properties from YML
- 15) Centralized Configuration
- 16) Spring Boot Config Server
- 17) Spring Boot Config Client 18) Distributed Logging using
- Sleuth & Zipkin Server 19) Load Balancing using Ribbon
- Client
- 20) Hystrix (Circuit Breaker) 21) OAuth 2.0 SSO - GitHub Integration 22) Connecting Multiple DB's

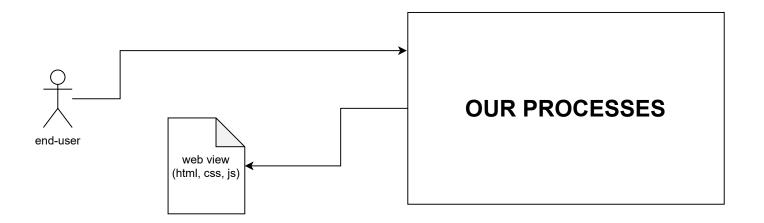
23) Apache Kafka Integration



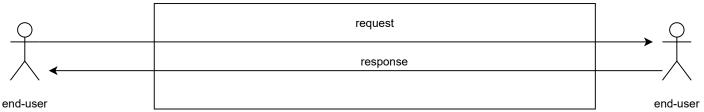
LESSON #03 - 04.11.2021



LESSON #04 - 11.11.2021



DATA TRANSFER - WEB SERVICES



// http://localhost:8085/api/v1/persons

```
v(List>
v(List)
v(List)
v(iten)
cido1c/id)
cfirstName>Elpin(refirstName)
clastName>Taghirade:/lastName)
csalary>100c/salary>
(/item)
v(Liten)
```