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SOFTWARE TRAINING & DEVELOPMENT

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SPRING BOOT & Cloud with MicroServices

Spring BOOT

A)SpringBootCore:

BootBasicandFeatures

- NeedOf Spring Boot
- SpringV/sBoot
- ComponentsinBoot
- BootArchitecture
- TypesofFilesinBoot
- Advantagesof Boot
- BootDependencies
- MavenBootPlug-in
- ParentProject inBoot

FirstApplicationinBoot

- BasicAnnotationsinBoot
- ExecutionFlow
- BootStarterclass
- ApplicationProperties
- ServerPortChange
- Managingof Dependencies
- CommonProblem incoding
- @SpringBootApplication

CustomizingtheBanner

- SpringBoot Banner
- BannerExample
- TextBanner
- Custombanner

RunnersinSpringBoot

- CommandLineRunner
- ApplicationRunner
- MultipleRunnerswith Order
- RunnerConfiguration
- InputstoRunner

Application Properties file

- Propertiesfile Need
- XML/Properties
- FindingKey-values
- Option-args/Nonoption-args
- Defaultvalues

Application YAMLFile

- YAMLstructure
- YAML Locationsand Order
- SnakeYAMLExecutionFlow

POMstructurefor Boot

- WhyPOM,Roleof POMElements
- ParentProject
- Properties inPOM
- VersionManagement

ProfilesinSpring boot

- @Profileannotation
- Customer/EnvironmentSpecific coding
- ProfileProperties
- ProfilesYAML

BuildingApplication(.jar,.war)

- WhatisBuildplug-in
- MavenCleanandInstall
- targetfolder and .jar and .war

SpringBootstarterclass

- @SpringBootConfiguration
- @EnableAutoConfiguration
- @ComponentScan

SpringBootstandaloneApplication

- WritingStandalone Application
- ServiceExamples
- PrintingMessages

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SpringBootConfiguration

- WritingApplicationConfiguration
- JavaandAnnotation Configuration
- Autodetectionof ConfigurationFile

LombokAPI

- @Data
- @Getter
- @Setter
- @ToString
- @EqualsAndHashCode
- @NoArgsConstructor
- @RequiredArgsConstructor
- @AllArgsConstructor
- @NonNull

BasicAnnotations andExecutionflow

- @Service
- @Component
- @Scope
- @Bean
- @Configuration
- @ConfigurationProperties
- @Order
- @Profile
- @Value
- @PropertySource

B) SpringBootAdvanced

SpringBootWebApplications

- Designof Web Applications
- LayersinWebApplication
- SpringBoot MVCModel
- WritingofControllers

Embedded Server andDatabases

- Needof EmbeddedComponents
- KnowingServersConfiguration
- Working withTomcat
- WorkingJettyServers
- Working with Undertow
- H2DatabaseandConsole
- HSQLDB
- ApacheDerby

SpringBoot JDBC

- CurdRepository
- BasicOperations
- Executionwith DifferentDb
- DatabaseConnection Properties

SpringBootDataJPA

- JPARepository,JPADB Operations(CURD)
- findAllandfindBy methods
- @QueryAnnotation forHQL
- JPAPropertiesConfiguration

SpringBootAJAX

- Synchronouvs/sAsynchronous
- AJAXintroduction
- JQueryAJAX call models
- Integrationwith RestController

SpringBootConnectionPooling

- TypesofTemporary Memories
- Needof Pooling
- Poolingv/scaching
- HikariCP Configuration

SpringBootPagingandSorting

- PagingIntroduction
- GoogleExamplefor Paging
- PagingAndSorting Repository
- Pageand Pageableobjects
- defaultvaluesfor Paging
- Sorting Directions

RestWebServices andOperations

- NeedofJSON
- JSONandIt'sAutoConversion
- TestingUsing POSTMAN
- TypesofHTTPMethods
- PUT
- GET
- DELETE
- POST
- Parameters(HeaderParam,RequestParam..)
- ResponseEntityFormat
- @RequestBodyand @ResponseBodyFormat

SpringBootwithSwagger

- WhatisAPIEndpoints
- SwaggerIntroduction
- Designof SwaggerUI
- Codingfor RestController
- TestingSwagger Operations

SpringBootProfiles

- Needof Profiles
- EnvironmentsandProfiles
- DefiningProfiles
- ExecutionOf profile

SpringBootDevTools

- WhatareDevTools
- DependencyforDevTools
- Working with DevTools

SpringBootTaskScheduling

- SchedulersIntroduction
- TaskManagement
- fixedDelayand fixedRate
- cronexpression

SpringBootActuator

- ProductionRESTEndpoints
- Sensitiveand Insensitiveendpoints

- DependencyforActuator
- Executingendpoints
- findinglogs
- Beansin container
- Healthcheck
- CurrentEnvironment

SpringBoot Email

- JavaMAILAPIstructure
- MailProperties
- BootMail Design
- SimpleEmail
- MimeEmailwith Attachments

MICROSERVICES**MonolithicApplications**

- Introductionof LayersApplication
- ModulesIntegration
- Implementationof MonolithicApplications

DrawbacksofMonolithicapplications

- Problems inDesign
- LoadBalancing
- ParallelCoding andTesting

SOAIntroduction

- WhatisSOA
- SOAasDesignPattern
- ComponentsofSOA
- ConsumerandProducers
- RegistryandDiscovery Component

MicroservicesIntroduction

- Importanceof microservices
- ServicesinApplication
- MonolithictoMicroservices
- ArchitectureandImplementationstyles

Design ofMicroservices

- EurekaServerasRegistryandDiscovery

- Registryserver
- ConsumerDiscovery

IntraCommunicationofMicroservices

- Providerand Consumer Integration
- Sending/ReceivingData
- HTTPMethodsExamples

Datapassing types(JSON,XML)

- HTTPParameters
- HTTPBody forDatapassing
- ObjecttoJSONFormat
- ObjecttoXMLFormat

Need ofLoadbalancing

- WhatisLoad balancing
- Typesof LoadBalancing
- RibbonforClientLoad balancing
- Zuul forServer LoadBalancing

APIcreationfor Microservices

- Defining Consumerfor RestController
- Pathsand Parameters
- UsingAPIfor Integration

SpringCloudArchitecture

- Components
- ServiceRegistry
- API Gateway
- ConfigServer
- ConfigClient
- LoadBalancer
- PCF
- CircuitBreaker
- CloudIntegrations

DiscoveryandRegistry server

- NetflixEurekaServer Example
- ApplicationProperties
- DependenciesIntroduction
- SpringBootversionandCloudversion

ProviderandConsumer Microservices

- RestTemplateIntroduction
- EurekaServer Registry
- ProviderCreationandRegisterwith Eureka
- ConsumerApplicationandRegister withEureka
- ApplicationConfigurationfor RestTemplate
- ConsumerandProvider Integration

ConfigserverandConfigClient

- NeedofConfig Servers
- LocalFileSystem
- GitConfigServers
- EurekaWith Configserver
- ProviderandConsumerswith ConfigClient

APIforGateway Proxy

- WhatisAPIGateway
- NetflixZull Gatewayexample
- Zullproject Properties
- Integrationwith EurekaandPCApp

LoadingBalancing

- NeedOf load Balancing
- NetflixRibbonExample
- ProviderLoadBalancing
- RibbonwithEureka-PCAPP

Fallbackmethods andCircuitBreaker

- ExceptionHandling inCloud
- Fallbackmethods
- HystrixCircuit Breakers
- HystrixDashboard

Zipkin andSleuth

- LoggingandTracing inMicroservices
- Log4Jfor Microservices
- NeedofSleuth
- ZipkinUI Tracer

PivotalCloudFoundry(PCF)

- WhatisPCF
- RegisterandValidate Account
- InstallingPCFinsystem
- PushMicroservicetoPCF
- ServiceDashboard
- PCFBasicCommands

MessageQueue(MQ)

- IntroductionstoMQs
- Needof MQs
- Codingusing ActiveMQ
- Apache Kafka

SpringBootSecurity

- BootSecurity Design
- AuthenticationandAuthorizations
- Roles andAntMatcher ULR Patterns
- InMemory Authentication
- DefaultFormLogins
- CustomFormCreation
- JdbcAuthentication
- JPA/Hibernate(ORM)Authentication
- OAuth2Security Desig
- OAuth2ClientApplicationDesign

Casestudy[EmployeeModule]

- SpringBootDesignand Coding
- ConvertingtoMicroservices
- DeployinPFC
- IntegratewithSpringApps
- IntegratewithAngularApps

SpringBootwithTools

- Eclipse, STS
- Maven/Gradle
- Github
- start.spring.io
- JUnitWith Mocking
- Logging
- ReferenceDocuments
- Docker
- FAQs