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1. CORE JAVA

1.1. Introduction To Java

1.2. Java History

1.3. Why Java

1.4. JVM

1.5. Class, Objects, Data Types

1.6. Variables

1.7. Type Casting

1.8. Object Oriented Programming Concepts

1. Abstraction

2. Encapsulation

3. Polymorphism

4. Inheritance

1.9. Java Coding Standards

1.10. Package – Creating package, naming package

1.11. Java Keywords

1.12. Access Specifiers – Public, Private, Protected, Default

1.13. Static Concept – Block, Variable, Method, Class

1.14. Scanner Class

1.15. Control Statement – If, If...else, Nested if...else and SwitchCase

1.16. Flow Statement- for, while, do While

1.17. Constructor- Default, Parameterized

1.18. Inheritance



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- 1.19. Extends, super and this keyword
- 1.20. Method Overloading, Method Overriding
- 1.21. Interface
- 1.22. Abstract Class
- 1.23. Garbage Collection
- 1.24. Marker Interface
- 1.25. Serialization
- 1.26. Transient
- 1.27. Exception Handling
- 1.28. Exception Handling- try, catch, throw, throws, finally
- 1.29. String Concept

- String Basics

- String Methods

- 1.30. String Buffer
- 1.31. String Builder
- 1.32. Custom Immutable Class
- 1.33. Collection Framework

- Collection Basics
- Iterator Interface
- Methods of Collection Interface

1. List

- A] Array List
- B] Linked List
- C] Vector



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- 2. Set
 - A] Hash Set
 - B] Tree Set
- 3. Map
 - A] Hash Map
 - B] Tree Map
 - C] Hashtable
- 3. Inter Thread Communication
- 1.34. File Handling Concept
 - 1. File Handling Basics
 - 2. Create Folder
 - 3. Create File- .txt, .pdf, .xlsx, .docs, etc
 - 4. Write File
 - 5. Read File
 - 6. Delete File
- 1.35. Thread
 - 1. Concept, Lifecycle
 - 2. Extends Thread
 - 3. Implement Runnable Interface
 - 4. Thread Priorities
 - 5. Thread Methods
- 1.36. Multithreading
- 1.37. Thread Synchronization
 - 1. Synchronization
 - 2. Object Locking
 - 3. Inter Thread Communication



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Advanced Java (J2EE)

Part - 1 / JDBC (Java data base Connectivity)

1. What is database
2. Types of databases
3. Introduction to DBMS
4. What is JDBC
5. Types of drivers in JDBC
 1. Working with Type-1
 2. Working with Type -2
 3. Working with Type -3
 4. Working with Type -4
 5. Working with Type-5
6. Developing first example to connect to database
7. Introduction to statement (I)
8. Introduction to prepared statement (I)
9. Introduction to callable statement (I)
10. Difference between statement vs prepared statement
11. Working with BLOB and CLOB
12. Cached Rowset and Web rowset
13. Join RowSet
14. Transaction management in JDBC
15. Batch processing



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Part - 2 : Servlets

1. Introduction to Web application and Web container
2. What is Servlet (I)
3. Types of Servlets
4. Working with Servlet (I)
 - i. Servlet life cycle
 - ii. Servlet config
 - iii. Servlet context
 - iv. Difference b/w Servlet config vs Servlet config
5. Working with Generic Servlet (I)
6. Introduction to HTTP and HTTPS
7. What are HTTP methods and status codes
8. Introduction to HTTP Servlet (I)
9. Working with request dispatcher
 - i. Include mech
 - ii. Forward mech
10. Cookies management
11. Session management
12. Stateful & Stateless sessions
13. Implicit objects in Servlets
14. Servlets scopes
15. Exporting data to excel and pdf



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Part - 3 JSP (Java Server Pages)

1. What is Jsp
2. Difference b/w Servlets and Jsp
3. How internally Jsp works
4. Working with Jsp tags
5. Implicit objects in Jsp
6. Jsp scopes
7. Understanding about web mvc project arch
8. Deploying Web application in tomcat server

Frameworks

Hibernate Framework

1. What is Framework?
2. What are Different Types of Frameworks?
3. Hibernate Introduction
4. Hibernate Basics
5. What is Object Relational Mapping
6. What is Difference between JDBC and ORM?
7. Hibernate Architecture
8. Hibernate Session
9. Hibernate Session Factory



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10. UML diagrams Introduction
11. Hibernate with HBM
12. Developing a Model class
13. Working with model class annotations
14. Hibernate Configuration
15. Hibernate Configuration Offline
16. Working with Hibernate Test class?

17. Understanding Hibernate configuration xml file
18. Understanding detail about Hibernate Test class
19. Developing a first Hibernate Application
- .20. Session(I) methods
- .21. Working with date type annotations in Hibernate
22. Working with clob and blob in hibernate
- .23. Fetching data using hibernate from database
- .24. Diff. save(), saveOrUpdate(), update(), persist() and merge()
- .25. Diff. get() and load()
26. Working with collection framework
- .27. What are multi-table concepts
- .28. Working with Secondary Table
- .29. Working with component mapping
30. Working with Inheritance



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31. Hibernate Association Mapping

1. One to One Mapping
2. One to Many Mapping
3. One to Many Mapping
4. Many to Many Mapping

32. Introduction to hibernate query language

33. Working with HQL

34. Types of parameters in HQL

35. Working with named parameters and positional parameters

36. Pagination in hibernate

37. HQL-non select operations

38. Copy data using HQL

39. Generators in hibernate

40. Custom generators in hibernate

41. Hibernate composite key

42. Bag and Id-bag

43. Native SQL

44. Validation in hibernate

45. Hibernate HCQL-Criteria Query Language

46. Connection pooling in hibernate

47. Cache Mechanism

48. Types of caches in hibernate

49. Working with eh-cache implementation

50. Interview questions

51. Misc Topics of Hibernate



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Spring basics and Spring boot

1.1. Spring Framework

1. What is Framework?
2. How many Types of Frameworks?
3. Spring Framework Introduction
4. What is MVC Architecture?

Module1:(Spring-Core)

1. What is IOC ?
2. Types of Injections in Spring?
 - i. Dependency Injection
 - ii. Construction Injection
3. First Example on Injections
 - i. Xml Based
4. Configuration in Spring:(Java Annotation Configuration)
 - i. Second Example on Injections
5. What is Difference Between Dependency Injection and Constructor Injection?
6. Introduction to Inner Beans
7. Bean Inheritance
8. Scopes in Spring ?
 - i. Singleton Scope
 - ii. Prototype Scope
 - iii. Session Scope
 - iv. Request Scope
 - v. Global scope



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10. Working with properties file
 - i. @value ii. @propertySource()
11. Bean lifecycle
12. Bean preprocessor and postprocessor mechanisms?
13. Core module Annotations
14. p-namespace and c-namespace
15. Summary of Annotations of Spring core module

Module 2:(Spring Boot-Core)

3.4.1. SpringBoot

3.4. SPRING BOOT

- Boot Basic and Features Need of Spring Boot
- Spring V/s Boot Components in Boot
- Boot Architecture Types of Files in Boot
- Advantages of Boot Boot Dependencies
- Maven Boot Plug-in Parent Project in Boot

3.4.2. First Application in Boot

- Basic Annotations in Boot Execution Flow
- Boot Starter class Application Properties
- Server Port Change Managing of Dependencies
- Common Problem incoding
- @Spring Boot Application



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3.4.3. Customizing the Banner

- Spring Boot Banner Banner Example
- Text Banner Custom banner

3.4.4. DEVELOPMENT

3.4.4. Runners in Spring Boot

- ☐ Command Line Runner Application Runner
- Multiple Runners with Order Runner Configuration
- Inputs to Runner

3.4.5. Application Properties file

- ☐ Properties file Need XML/Properties
- Finding Key-values Option-args / Nonoption-args
- Default values

3.4.6. Application YAML File

- YAML structure YAML Locations and Order
- Snake YAML Execution Flow

3.4.7. POM structure for Boot

- Why POM, Role of POM Elements Parent Project
- Properties in POM Version Management

3.4.8. Profiles in Spring boot

- @ Profile annotation Customer / Environment Specific coding
- Profile Properties Profiles YAML



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Module - 3 Spring Boot JDBC

1. What is JDBC?
2. Why spring JDBC introduced?
3. What is DataSource and Types of Data Sources?
4. Working with JDBC Template
5. Named Parameter using JDBC Template
6. Crud Operations using JDBC Template
7. Spring JDBC Configuration using Java Configuration Style
8. Reading db values from properties file
9. RowMapper(I)

Module - 4 Spring Data JPA

1. CURD Repository
2. Paging and Sorting Repository
3. JPA Repository
4. Find xxx methods
5. Query Annotation for HQL
6. JPA Properties Configuration



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Building Application (.jar,.war)

- What is Build plug-in Maven Clean and Install
- Target folder and .jar and .war

Spring Boot starter class

- @ Spring Boot Configuration
- @ Enable Auto Configuration
- @ Component Scan

Spring Boot standalone Application

- Writing Standalone Application Service Examples
- Printing Messages Spring Boot Configuration
- Writing Application Configuration
- Java and Annotation Configuration
- Auto detection of Configuration File

Lombok API

- @ Data
- @ Getter
- @ Setter
- @ ToString
- @ Equals And Hash Code
- @ No Args Constructor
- @ Required Args Constructor
- @ All Args Constructor
- @ Non Null



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Module - 5 Spring Boot NoSQL

1. Introduction to NoSQL
2. Working with Mongo Repository

Module - 6 Cache Mechanism & Connection pooling

1. Spring Boot Connection Pooling
2. Types of Temporary Memories
3. Need of Pooling
4. Pooling v/s caching
5. Hikari CP Configuration

Module - 7 Spring WEB MVC

1. Design of Web Applications
2. Layers in Web Application
3. MVC Model -1 & MVC Model -2
4. Writing of Controllers
5. Spring MVC arch
6. Working with ModelAndView (I)
7. Working with ModelAndView ©
8. Working with Model
9. Working with ModelAttribute
10. Working with Spring Form Tag Lib
11. Spring Validator
12. Working with I18N in Spring
13. Important Annotations in WEB MVC



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Module - 8 Spring Reactive WEB FLUX

1. Introduction to Reactive Programming
2. Difference WEB MVC vs WEB FLUX
3. Working with Mono and Flux
4. Working with Web Client

Module - 9 Spring Boot Email

1. Introduction to Spring Email
2. Spring Email Design
3. Understanding Configuration of Spring Email
4. Working with Spring-Email

Module -10 Spring Scheduler

1. What is Scheduling?
2. Why Schedulers are Used?
3. Introduction to Spring Scheduler
4. Spring Scheduler Annotations
5. Developing a Spring Scheduler Application

Module -11 Spring REST

1. What is a Webservices?
2. What is Restful Webservice ?
3. Introduction to Spring Restful Webservices?
4. Annotations in Spring Rest?
5. What is rest template?



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- 6.What are producer and consumer application?
- 7.What are different http methods?
- 8.Spring rest http method Annotations
- 9.What is response entity ?
- 10.Working with Spring Rest using maven
- 11.Working with Spring Rest Producer Application
- 12.Introduction to postman?
- 13.Working with Postman using spring rest?
- 14.Developing Spring rest consumer Application
- 15.Media type annotations using spring rest
- 16.Making request using http headers using postman
- 17.Consuming data using consumer application

Module - 12 Spring AOP

- 1.What is AOP?
- 2.What are AOP Terms?
- 3.Types of Advices?
- 4.Understanding Spring-aop configuration
- 5.Developing a Aop Application
- 6.Some misc Interview Questions on Aop.
- 7.Aop using Aspect
- 8.What are internal annotations of aspect aop?
- 9.Aspect Aop Example program
- 10.Types of advices in aspect Aop
- 11.Special Expression in Aop



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Module -13 Spring Messaging

Part - 1 (Spring Boot JMS)

- 1.Introduction to Jms
 - 2.Types of Jms Communication
 - 3.What is queue,Topic and Destination in Mom?
 - 4.Jms Design
 - 5.Downloading activemq
 - 6.Working with Activemq
 - 7.Jms Template Design
 8. Introduction to JMS TEMPLATE
 - 9.Working with Jms Template
- Part - 2 Working with Apache Kafka

1. What is Data Streaming
2. Working with Kafka Template
3. Developing a application by producer and consumer

Module - 14 Spring Transaction Management

1. Purpose of Transaction Management
2. Working with @Transactional Management
3. Working with Isolation and Propagation



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Module - 15 Spring Security

1. What is a Security why it is needed?
2. What is Jaas?
3. What is Authentication and Authorization?
4. Types of authentication?
 - i. Inmemory Authentication
 - ii. Jdbc Authentication
 - iii. UserDetailsService
5. What is role of Authorization manager and how many types?
6. Spring Security Design in uml design
7. Working with different types of authentications
8. Working with Password Encoder?
9. JWT and JWWT
10. OAUTH 2.x

Spring Cloud (Microservices)

1. Monolithic Applications
 - Introduction of Layers Application
 - Modules Integration
 - Implementation of Monolithic Applications
2. Drawbacks of Monolithic applications
 - Problems in Design
 - Load Balancing
 - Parallel Coding and Testing



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3. SOA Introduction

- What is SOA
- SOA as Design Pattern
- Components of SOA
- Need of JSON
- JSON and It's Auto Conversion
- Testing Using POSTMAN
- Types of HTTP Methods
- PUT
- GET
- DELETE
- POST
- Parameters(Header Param, Request Param..)
- Response Entity Format
- @ Request Body
- @ Response Body Format
- Consumer and Producers
- Registry and Discovery Component

4. Micro services Introduction

- Importance of micro services
- Services in Application
- Monolithic to Micro services
- Architecture and Implementation styles



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5. Design of Micro services

- Eureka Server as Registry and Discovery
- Registry server
- Consumer Discovery

6. Intra Communication of Microservices

- Provider and Consumer Integration
- Sending/Receiving Data
- HTTP Methods Examples

7. Data passing types (JSON, XML)

- HTTP Parameters
- HTTP Body for Datapassing
- Object to JSON Format
- Object to XML Format

8. Need of Load balancing

- What is Load balancing
- Types of Load Balancing
- Ribbon for Client Load balancing
- Zuul for Server Load Balancing

9. API creation for Micro services

- Defining Consumer for Rest Controller
- Paths and Parameters
- Using API for Integration



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10. Spring Cloud Architecture

- Components
- Service Registry
- API Gateway
- Config Server
- Config Client
- Load Balancer
- PCF
- Circuit Breaker
- Cloud Integrations

11. Discovery and Registry server

- Netflix Eureka Server Example
- Application Properties
- Dependencies Introduction
- Spring Boot version and Cloudversion

12. Provider and Consumer Micro services

- Rest Template Introduction
- Eureka server Registry
- Provider Creation and Register with Eureka
- Consumer Application and Register with Eureka
- Application Configuration for Rest Template
- Consumer and Provider Integration



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.NET FSD

Testing Tools - AI

AI FULL STACK

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DATA SCIENCE

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Healthcare Courses
SAS, CDM, Medical Coding

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13. Config server and Config Client

- Need of Config Servers
- Local File System
- Git Config Servers
- Eureka with Configserver
- Provider and Consumers with ConfigClient

14. API for Gateway Proxy

- What is APIGateway
- Netflix Zuul Gateway example
- Zuul project Properties
- Integration with Eureka and PC App
- Spring Cloud Gateway
- Spring Cloudbus

15. Fallback methods and Circuit Breaker

- Exception Handling in Cloud
- Fall back methods
- Hystrix Circuit Breakers
- Hystrix Admin Dashboard

16. Zipkin and Sleuth

- Logging and Tracing in Microservices
- Log4J for Microservices
- Need of Sleuth
- Zipkin UI Tracer



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17. Spring Boot Actuator

- Production REST Endpoints
- Sensitive and Insensitive endpoints
- Dependency for Actuator
- Executing end points
- Finding logs
- Health check
- Current Environment Spring Cloud & Micro services
- Concentric Admin UI

Sql

Topic 1

Introduction to DBMS

Introduction Oracle Data base

Understanding about DDL, DML, DCL, TCL, DQL

Topic 2

Introduction PL/ SQL

Working with triggers, Cursors, Procedures

Exceptional Handling in PL/SQL



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Web Programming

- HTML 5

- Difference between HTML5 and HTML 4
- Schematic elements
- List of Browsers that support HTML5

Doctype

Including external page links in a page using anchor tags and their properties

- Working with row and column data using table tags Hiding and unhiding elements using display
- Image tag, p tag, ul and ol tags, li, nobr, hr, br, etc.
- Layouts, forms, buttons
- Input fields (textbox, radio button, checkbox, dropdown, text area, etc.)
- Media tags (audio and video tags)
- Storing user preferences using Local storage.
- Cookies
- Web worker

CSS-3

- Difference between CSS2 and CSS3
- Adding borders, font, pseudo-classes
- Positioning elements (absolute, relative, fixed, and static)
- Image spriting
- Box model (margins, padding)
- Floating elements (float left, right etc.)
- Including external resources
- Absolute and Relative Paths
- Including external resources like CSS, images, etc
- Adding borders and backgrounds
- Flex
- Grid
- SASS Vs LESS



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Javascript

- JavaScript (ES6-ES13)
- variables
- var, let, and const
- functions
 - arrow functions
 - Arrays
- map(),reduce(),filter()
- JSON
- DOM Manipulations
- Callbacks
- Events Handling

Typescript

- What is TypeScript?
- Benefits of TypeScript:
- Setup the Environment
- First TypeScript Example
- Data Types and Variables
- Difference between let and var
- De-structuring & Spread
- Array De-structuring
- Object De-structuring
- Mixed De-structuring
- Property renaming
- Default Values
- Spreads
- Working with Classes and Objects
- Writing and Using Classes
- Constructor method



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- Inheritance of classes
- Static Properties
- Abstract class
- Working with Interfaces
- Interface Declaration and Initialization with an object
- Duck Typing
- Interface Implementation by class
- Interface having Optional Property
- Class extending another class and also implementing an Interface
- Excess Property Check
- Generics
- Modules and Namespaces

Angular

- Angular
- Modules and Components
 - Data Binding in Angular
 - Directives in Angular js
 - Dependency Injection in Angular
 - Routing
 - Forms
 - Reactive Forms
 - Pipes
 - HTTP Requests Authentication
 - Angular Modules



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