

# IntelliQ IT



**Address: 502, Manjeera Square Building, Prime Hospital Lane, Above Udipi Park  
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## **Full Stack Java Development**

- + Full Stack Introduction**
- + Environment Setup**
- + Core Java**
- + Advanced Java Topics**
- + Databases(PL/SQL & SQL)**
- + Web Development**
- + Angular / React JS**
- + JAVA Frameworks Introduction**
- + Spring Core Module**
- + Spring boot**
- + Rest APIs Development**
- + Spring Data JPA**
- + Microservices Architecture**
- + Spring Security**
- + Mini Projects Development**
- + Major Project Development**
- + Interview Guidance**
- + Resume Preparation**
- + Mock Interviews**
- + Mock Tests**
- + Placement Assistance**

### **INTRODUCTION**

- WHAT IS FRONT END DEVELOPMENT
- FRONT END TECHNOLOGIES

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- WHAT IS BACK END DEVELOPMENT
  - BACKEND DEVELOPMENT TECHNOLOGIES
  - WHAT IS FULL STACK DEVELOPMENT
  - ROLES OF FULL STACK DEVELOPER

## **CORE JAVA**

- WHAT IS PROGRAMMING LANGUAGE?
- TYPES OF PROGRAMMING LANGUAGES
- JAVA Intro, History & Principles of JAVA?
- JAVA INSTALLATION
- JAVA PROGRAM EXECUTION FLOW
- JVM ARCHITECTURE
- IDENTIFIERS & KEYWORDS
- VARIABLES & DATA TYPES
- JDK VS JRE VS JVM
- METHODS
- OBJECT ORIENTED PRINCIPLES
- ARRAYS & STRINGS HANDLING
- EXCEPTION HANDLING
- MULTI-THREADING
- FILE IO OPERATIONS
- WRAPPER CLASSES
- AUTO BOXING, UN-BOXING
- COLLECTIONS FRAMEWORK
- LAMBDA EXPRESSIONS
- FUNCTIONAL INTERFACES
- DEFAULT & STATIC METHODS
- STREAM API
- METHOD REFERENCES
- DATE AND TIME API CHANGES
- JAVA 9 MODULE SYSTEM
- JAVA 11 FEATURES
- JAVA 17 FEATURES
- JAVA 21 FEATURES
- WORKING WITH IDE
- LOGICAL PROGRAMMING

## **ADVANCED JAVA**

- SERVLETS

- JSP
- JDBC
- MVC ARCHITECTURE
- PROJECT DEVELOPMENT
- DEBUGGING

## **SPRING BOOT & MICROSERVICES**

### **SPRING FRAMEWORK**

- WHAT IS FRAMEWORK
- TYPES OF JAVA FRAMEWORKS
- SPRING FRAMEWORK INTRODUCTION
- SPRING MODULES OVERVIEW
- SPRING CORE MODULE
- IOC CONTAINER
- SPRING ARCHITECTURE
- DEPENDENCY INJECTION
- CONSTRUCTOR INJECTION
- FIELD INJECTION
- SETTER INJECTION
- SPRING BEANS
- COMPONENT SCANNING
- BEAN LIFECYCLE
- AUTOWIRING
- BEAN SCOPES

### **SPRING BOOT**

- SPRING VS SPRINGBOOT
- SPRINGBOOT INTRODUCTION
- STARTER POMS
- SPRINGBOOT ADVANTAGES
- SPRINGBOOT APP CREATION
- SPRINGBOOT INTERNALS
- SPRINGBOOTAPPLICATION
- AUTO CONFIGURATION
- RUN ( ) METHOD INTERNALS
- ACTUATORS
- RUNNERS
- EMBEDDED CONTAINERS

- PROPERTIES VS YML

## **SPRING DATA JPA**

- DATA JPA INTRODUCTION
- ORM PRINCIPLES
- ENTITIES
- REPOSITORIES
- CRUDREPO
- JPAREPO
- FINDBY
- METHODS
- CUSTOM QUERIES
- GENERATORS
- QBE
- PAGINATION
- SORTING
- SPRING PROFILES
- ASSOCIATION MAPPING
- TRANSACTIONS

## **SPRING WEB MVC**

- INTRODUCTION
- HANDLER MAPPER
- MODEL AND VIEW
- VIEW
- VIEWRESOLVER
- DISPATCHER SERVLET
- CONTROLELR
- FORMS
- EMAIL SENDING
- LOGGING
- VALIDATIONS
- THYMELEAF

## **SPRING REST**

- DISTRIBUTED APPLICATION
- REST ARCHITECTURE
- REST PRINCIPLES
- SOAP VS REST

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- HTTP METHODS, PROTOCOL, REQUEST, RESPONSE
  - JACKSON API
  - JSON DATA
  - STATUS CODES
  - REST CONTROLLER
  - REST API DEVELOPMENT
  - PATH VARIABLES
  - RESPONSE BODY
  - REQUEST BODY
  - POSTMAN
  - EXCEPTION HANDLING
  - RESTTEMPLATE
  - REST REPOSITORIES
  - WEBCLIENT
  - SWAGGER
  - MEDIA TYPES

## **SPRING SECURITY**

- AUTHENTICATION
- IN MEMORY AUTHENTICATION
- AUTHORIZATION
- AUTH PROVIDER
- USER DETAILS SERVICE
- OAUTH 2.0
- JWT
- AUTH PROVIDER

## **MICROSERVICES**

- MICROSERVICES ARCHITECTURE
- SERVICE REGISTRY
- MONOLITH VS MICROSERVICES
- MICROSERVICES ARCHITECTURE
- SPRING CLOUD LIBRARIES
- ADMIN SERVER
- ZIPKIN SERVER
- CONFIG SERVER
- FEIGNCLIENT
- LOAD BALANCING
- APIGATEWAY
- FILTERS

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- ROUTINGS
- KAFKA INTEGRATION
- REDIS INTEGRATION
- SPRING BATCH
- SPRING SCHEDULAR

## **DATABASE**

- INTRODUCTION TO DBMS
- ENVIRONMENTAL SETUP
- DATABASE COMMANDS
- DML OPERATIONS
- DDL Commands
- DQL OPERATIONS
- SQL CLAUSES
- SQL OPERATORS
- SQL FUNCTIONS
- SUB QUERIES
- INTEGRITY CONSTRAINTS
- SQL JOINS
- FUNCTIONS
- PROCEDURES

## **HTML**

- WEB DEVELOPMENT OVERVIEW
- HTML INTRODUCTION
- HTML DOCUMENT STRUCTURE
- HEADINGS & PARAGRAPHS
- TYPOGRAPHY
- HTML LINKS
- IMAGES IN HTML
- ATTRIBUTES
- LISTS
- HTML TABLES
- FORMS & INPUTS
- BLOCK & INLINE ELEMENTS
- DIVS & SPANS
- CLASSES & IDS
- IFRAMES
- HTML 5 SEMANTICS

## **CSS**

- CSS INTRODUCTION
- BASIC CSS SELECTORS
- DEV TOOLS INTRODUCTION
- FONTS & COLORS
- BACKGROUNDS
- BORDERS
- BOX MODEL
- MARGIN & PADDING
- DISPLAY, ALIGNMENT & POSITIONING
- PSEUDO SELECTORS
- RESPONSIVE LAYOUTS
- INTRODUCTION TO FLEXBOX
- BUILDING RESPONSIVE WEBSITE

## **BOOTSTRAP**

- BOOTSTRAP INTRODUCTION
- TYPOGRAPHY & UTILITY CLASSES
- NAVBARS & NAVS
- FORMS & INPUTS
- TABLES & PAGINATION
- CARDS
- COLLAPSE
- TOOLTIPS
- MODELS
- INPUT GROUPS
- ALERTS & SPINNERS
- CAROUSEL SLIDER
- ACCORDION
- POPOVERS

## **JAVA SCRIPT**

- INTRODUCTION TO JAVA SCRIPT
- SCRIPT TAGS
- CONSOLE OUTPUT
- DATA TYPES
- VARIABLES
- ARRAYS
- STRINGS MANIPULATION

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- JAVA SCRIPT OBJECTS
  - JSON
  - LOOPS
  - CONDITIONALS
  - FUNCTIONS
  - CONSTRUCTOR FUNCTIONS
  - WINDOW OBJECT & DOM
  - DOM SELECTION
  - DOM MANIPULATION
  - EVENTS HANDLING FORMS
  - ES6 CLASSES

## **REACT JS**

- INTRODUCTION TO REACT JS
- SPA VS MPA
- REACT VS ANGULAR VS VUE
- SETTING UP THE ENVIRONMENT (NODE.JS, NPM)
- CREATE REACT APP (CRA)
- FOLDER STRUCTURE OVERVIEW
- REACT ELEMENTS
- REACT DOM
- JSX
- REACT COMPONENTS
- PROPS
- VITE TOOL
- FUNCTIONAL COMPONENTS
- INTRODUCTION TO HOOKS
- STATE MANAGEMENT
- INTERACTION BETWEEN COMPONENTS
- CONTEXT API
- AXIOS
- FORMS IN REACT
- REACT ROUTING
- REACT HOOKS
- REDUX WITH FUNCTIONAL COMPONENT
- TESTING IN REACT & DEPLOYMENT