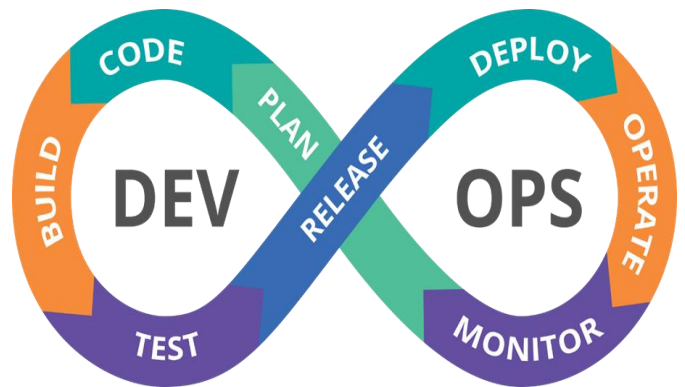




SAL CONNECTS
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Enterprise Linux



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Java™

FULL STACK



Program Details

Name of the Course: JAVA FULL STACK

Duration: 4 months



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JAVA FULL STACK COURSE CONTENT



HTML

- Introduction to HTML
- HTML Basics
- HTML Text Formatting and Semantic Elements
- HTML Lists
- HTML Links
- HTML Images
- HTML Tables
- HTML Forms
- HTML Multimedia
- HTML Block-Level and Inline Elements
- HTML Layouts
- HTML Attributes and Global Attributes
- HTML5 New Features
- HTML Best Practices
- HTML Integrations
- HTML Meta Tags
- MINI PROJECTS



CSS

- Introduction to CSS
- CSS Selectors
- CSS Properties for Styling
- CSS Box Model
- CSS Positioning
- CSS Flexbox
- CSS Grid
- CSS Responsive Design
- CSS Units
- CSS Colors and Gradients
- CSS Transitions and Animations
- CSS Transformations
- CSS Pseudo-classes and Pseudo-elements
- CSS Variables
- CSS Frameworks (Introduction)
- CSS Best Practices
- Debugging CSS

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JAVA FULL STACK COURSE CONTENT



BOOTSTRAP

- Introduction to Bootstrap
- Bootstrap Grid System
- Bootstrap Typography
- Bootstrap Colours and Backgrounds
- Bootstrap Components
- Bootstrap Tables
- Bootstrap Utilities
- Bootstrap Images
- Bootstrap Icons
- Bootstrap Layout
- Bootstrap Responsive Design
- Customizing Bootstrap
- Mini projects

JavaScript



JAVASCRIPT

- Introduction to JavaScript
- JavaScript Basics
- Data Types and Variables
- Operators in JavaScript
- Control Flow and Loops
- Functions in JavaScript
- Objects in JavaScript

- Arrays and Array Methods
- JavaScript DOM Manipulation
- Events in JavaScript
- Error Handling in JavaScript
- JavaScript ES6 Features
- Asynchronous JavaScript
- JavaScript Modules
- Browser APIs
- JavaScript Best Practices
- Mini projects



ReactJS

REACT JS

- Introduction to React.js
- JSX (JavaScript XML)
- React Components
- React Hooks
- React Event Handling
- React Lists and Keys
- React Forms
- React Router
- React State Management
- Styling in React
- React Performance Optimization
- Working with APIs
- Deployment
- Advanced React Concepts
- Mini Projects

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JAVA FULL STACK COURSE CONTENT



CORE JAVA

- Introduction to Java
- Java Basic Syntax
- Data Types and Variables
- Operators in Java
- Control Flow Statements
- Methods in Java
- Object-Oriented Programming (OOP) Concepts
- Classes and Objects
- Inheritance
- Polymorphism
- Abstraction
- Encapsulation
- Interfaces and Abstract Classes
- Exception Handling
- Collections Framework
- Generics
- Java I/O (Input/Output)
- Multithreading and Concurrency
- Lambda Expressions and Functional Interfaces
- Stream API
- Java 8 Features
- Java Memory Management
- Java Serialization
- Java Best Practices
- Mini projects



JDBC

- Introduction to JDBC
- Setting up JDBC Environment
- JDBC Architecture
- JDBC Drivers
- Establishing Database Connection
- Executing SQL Queries
- ResultSet and Retrieving Data
- PreparedStatement
- Statement and CallableStatement
- Updating Database (Insert, Update, Delete)
- Handling Transactions in JDBC
- Handling Exceptions in JDBC
- Batch Processing in JDBC
- JDBC Connection Pooling
- Closing JDBC Resources
- Metadata in JDBC
- JDBC and Stored Procedures
- JDBC Best Practices
- Mini projects

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JAVA FULL STACK COURSE CONTENT



SERVLETS

- Introduction to Servlets
- Servlet Architecture
- Setting up a Servlet Environment
- Servlet Lifecycle
- Handling HTTP Requests and Responses
- Request and Response Objects
- Servlet Config and Servlet Context
- Session Management
- Cookies in Servlets
- Servlets and HTML Forms
- Using GET and POST Methods
- Forwarding Requests (RequestDispatcher)
- Handling Exceptions in Servlets
- File Uploads in Servlets
- Servlets and Database Connectivity (JDBC)
- Multi-Threading in Servlets
- Security in Servlets
- Deploying Servlets on Web Servers
- Best Practices for Servlets
- Mini projects



JSP

- Introduction to JSP
- JSP Architecture
- Setting up a JSP Environment
- JSP Syntax and Structure
- JSP Directives
- Page Directive
- Include Directive
- Taglib Directive
- JSP Standard Actions
- <jsp:useBean>
- <jsp:setProperty>
- <jsp:getProperty>
- <jsp:forward>
- <jsp:include>
- JSP Expressions, Scripts, and Declarations
- JSP Implicit Objects
- request, response, session, application, out, etc.
- JSP Tags (Custom Tags)
- Tag Libraries
- Standard Tag Libraries (JSTL)
- Session Management in JSP
- Handling Forms in JSP
- JSP and Database Connectivity (JDBC)
- Error Handling and Exception Handling in JSP

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JAVA FULL STACK COURSE CONTENT

- JSP Implicit Objects and EL (Expression Language)
- JSP File Forwarding and Redirecting
- JSP and Servlets Integration
- JSP Custom Tags and Tag Libraries
- JSP Best Practices
- JSP Security
- Deploying JSP Applications
- Mini Projects



SPRING FRAMEWORK

- Introduction to Spring Framework
- Spring Core Concepts
- Spring Configuration
- Spring AOP (Aspect-Oriented Programming)
- Spring Data Access and ORM
- Spring MVC
- Spring Boot
- Spring Security
- Spring Testing
- Spring Integration
- Spring Cloud
- Spring Batch
- Reactive Programming with Spring WebFlux

- Hands-On Projects and Case Studies



SQL

- Introduction to SQL
- Database Concepts
- SQL Syntax and Basic Queries
- Data Types in SQL
- CRUD Operations (Create, Read, Update, Delete)
- SQL SELECT Statement
- SQL WHERE Clause
- SQL Sorting and Filtering
- SQL Operators
- Comparison Operators
- Logical Operators
- LIKE and IN Operators
- BETWEEN and IS NULL Operators
- SQL Aggregate Functions
- COUNT, SUM, AVG, MIN, MAX
- SQL GROUP BY and HAVING Clauses
- SQL Joins
- INNER JOIN
- LEFT JOIN (OUTER JOIN)
- RIGHT JOIN (OUTER JOIN)
- FULL JOIN
- SELF JOIN
- SQL Subqueries
- Subqueries in SELECT, WHERE, and FROM Clauses
- Correlated Subqueries
- SQL Set Operations

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JAVA FULL STACK COURSE CONTENT

- UNION, UNION ALL
- INTERSECT
- EXCEPT
- SQL Constraints
- PRIMARY KEY
- FOREIGN KEY
- UNIQUE
- CHECK
- DEFAULT
- SQL Indexes
- SQL Views
- SQL Transactions
- COMMIT, ROLLBACK, SAVEPOINT
- SQL Functions and Stored Procedures
- SQL Triggers
- Normalization and Denormalization
- 1NF, 2NF, 3NF, BCNF
- Advanced SQL Queries
- SQL Best Practices
- Mini Projects
- **Note: Git and GitHub will be provided:**

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