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## FULLSTACK / JAVA & PROJECT

### COURSE CONTENTS

#### Java

- Introduction To JAVA
- Object Oriented Programming (OOPS)
- Serialization
- Array
- String
- Exception Handling
- Collection Framework
- JDBC
- Multithreading
- Data Base

#### User interface

- HTML
- CSS
- What is Java Script
- What is Ajax ?
- Angular

#### Advance Java

- Hibernate (Hibernate 5.X)
- Spring Spring IOC
- Spring Web Mvc
- Spring Boot JPA
- Spring Boot
- Microservices and Kafka

#### Project Tools

- Log4j
- Maven
- Tomcat
- Jira,Agile
- Java 8
- Git



## Core Java

### Introduction To JAVA

- What is Java
- Features Of Java
- Java History
- Jdk Installations
- Simple Java Program (100%)
- All Block
- Default Constructor, Static Block, Non Static
- Method And Main Method
- Local And Global Variable
- Package And Import Keyword In Java
- Difference Between Jdk, Jvm, Jre
- Javap, Javac \*.java, Javaw, Javaws
- Installation Of IDE
- IDE - (Integrated Development Environment)
- Eclipse, IntelliJ, Netbeans
- Data Types
- Return Type
- Logical Program On Return Type
- Mini Project On Return Type
- Project :-
  - 1. Project Based On Return Type.
  - 2. Project Based On Return Type.
- Parameterized Method
- Eclipse Shortcut
- Project :-
  - 1. Project Based On Parameterized Method.
- Object Class In Java
- Setter And Getter File In Java
- Tostring() Method In Java
- Static Block And Non Static Block

### Object Oriented Programming (OOPS)

- OOPS Concept
- Inheritance In Java
- Method Overriding
- Java Type Casting
- Covariant Return Type(Jdk 1.5)
- Access Modifiers
- Final Keyword
- Static Keyword
- Super And This Keyword
- Polymorphism In Java
- Method Overloading
- Narrowing Concept
- Method Overriding
- Abstraction In Java
- Abstract Class
- Interface
- Interface And Abstract Class
- Encapsulation
- Project :-
  - 1. Calculator Project
  - 2. Project Based On OOPS Concept.
- Aggregation/Composition In Java (HAS-A Relationship)
- Project :-
  - 1. Project Based On Aggregation/Composition

### Serialization

- Serialization And Deserialization In Java

### Array

- Array In Java
- Project :-
  - 1. Project Based On Array.

#### String

- String Class In Java
- Project :-
  - 1. Validation Project Based On String.
- String Class Compare
- String Buffer And StringBuilder

#### JDLC

- Collections Utility Class
- Fail Safe And Fail Fast
- Homework(Weakhash Map, Identityhash Map, Concurrent)
- Internal Working Hashmap
- Comparable And Comparator

#### Exception Handling

- Exception Handling
- Try Catch Block Example
- Try Catch Finally Block
- Inner Try Catch Block
- Try With Multiple Catch Block
- Try With Pipe Operator
- Exception Message Printing Ways
- Throw And Throws Keyword In Java
- Overriding Rule
- Custom Exception In Java
- Return Type Example
- Project :-
  - 1. Project Based On Exception Handling

#### Multithreading

- Jdbc API In Java
- Statement Interface
- PreparedStatement
- CallableStatement
- Singleton Design Pattern
- Project :-
  - 1. Project Based On JDBC.

#### Collection Framework

- Collection Frameworks
- List Interface
- Examples On List
- Project -
  - 1. Project Based On ArrayList, LinkedList.
- Collections Class Utility Method
- Comparable And Comparator Interface
- Set Interface
- Map Interface(Hash Map, Tree Map, LinkedHashMap Map)
- Project -
  - 1. Project Based On Hash Map, Tree Map, LinkedHashMap Map.

#### Database

- SQL Introduction
- MySQL Introduction
- MySQL Installation
- MySQL Workbench Installation
- Features
- Data Types
- DDL DML TCL
- MySQL Conditions
- MySQL Functions
- Joins

#### What is Java Script

- Ways To Insert Java Script In Html Page
- External Javascript
- How To Call Functions Of JavaScript
- Events In JavaScript
- Table Creation By Using Javascript

#### Spring Boot JPA

- What is Spring Boot JPA ?
- JPA Annotations
- Curd Repository
- JPA Repository
- Custom Queries

#### Microservices and Kafka

- Digi society
- Vehicle Management
- Ford Services
- E-Banking app

#### Spring Boot

- Spring Boot Introduction
- Spring Boot Features
- Creating Spring Boot Application
- Removal Of XML Files
- Simple Application Using Spring Boot
- Spring Boot Starters
- @SpringBootApplication Annotation
- Spring Application Class
- Spring Boot Actuator
- Spring Boot With Data JPA (CRUD Repository)
- Mini Project Using Spring Boot

#### Spring Boot

- What is Spring Boot ?
- Components Of Spring Boot
- Basic Program
- Log4j Properties File
- Console Properties And File Properties

#### Final Project

- Introduction Of Angular10
- Basic Architecture Of Angular Application
- Angular Semantic Versioning
- Environment Setup
- Creating First Angular Application
- Folder Structure
- Angular CLI
- TypeScript Sessions
- Angular Building Blocks
- Data Binding
- Directives
- Pipes
- Routing
- Angular Forms

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#### HTML

- User Interface
- What Is Html?
- Html Paragraphs
- Html Headings
- Links
- Html Forms
- Use Of Get () Method
- Use Of Post () Method
- Html Table
- How To Use Radio Buttons And Check Box

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#### CSS

- What Is CSS And Its Syntax
- Ways To Insert CSS In HTML Page
- Internal CSS
- External CSS
- Inline CSS
- Types Of Selector
- ID Selector
- Class Selector
- Element Selector

#### Spring MVC

- Java MVC
- Features Of Web MVC
- Life Cycle Of Web MVC
- Execution Flow Of MVC
- Stereotype Annotation In MVC Spring MVC - Multiple Controllers
- @Request Mapping - Working With Parameters
- Handler Mapping
- Controller Class
- View Resolvers
- Form Handling
- Spring Form Validation
- Spring Hibernate Integration (XML And Java Based)

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