Java SE 11 Developer

Zetlan Technologies

Online Course

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Java SE 11 Developer

Course Modules

1. Working with Java data types
- Use primitives and wrapper classes, including, operators, etc.,
- Handle text using String and StringBuilder classes
- Use local variable type inference, includg as lambda parameters

2. Controlling Program Flow
- Create and use loops, if/else, and switch statements

3. Java Object-Oriented Approach
- Declare & instantiate Java objects includg nested class objects
- Define and use fields and methods, including instance, static
- Initialize objects and their members using instance and static
- Undstd variable scopes, apply encapsulation & make objects
- Create subclasses & superclasses, includg abstract classes
- Utilize polymorphism and casting to call methods
- Create and use interfaces, identify functional interfaces,
- Create and use enumerations

4. Exception Handling
- Handle exceptns using try/catch/finally clauses, try-with-resrce
- Create and use custom exceptions

5. Working with Arrays and Collections
- Use generics, including wildcards
- Use a Java array and List, Set, Map and Deque collections
- Sort collctns & arrays using Comparator & Comparbl interfaces

6. Working with Streams and Lambda expressions
- Implement functional interfaces using lambda expressions
- Use Java Streams to filter, transform and process data
- Perform decomposition and reduction, including grouping

7. Java Platform Module System
- Deploy & execute modular apps, including automatic modules
- Declare, use, and expose modules, including the use of services

8. Concurrency
- Create worker threads using Runnable and Callable, & manage
- Develop thread-safe code, usg dift locking mechanisms & java.

9. Java I/O API
- Read and write console and file data using I/O Streams
- Implmt serialztn and deserialization techniques on Java objects
- Handle file system objects using java.nio.file API

10. Secure Coding in Java SE Application
- Develop code that mitigates security threats
- Secure resource access including filesystems, manage policies

11. Database Applications with JDBC
- Connect to & perform database SQL operations, process query

12. Localization
- Implement Localization using Locale, resource bundles

13. Annotations
- Create, apply, and process annotations

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