Java SE 17 Developer

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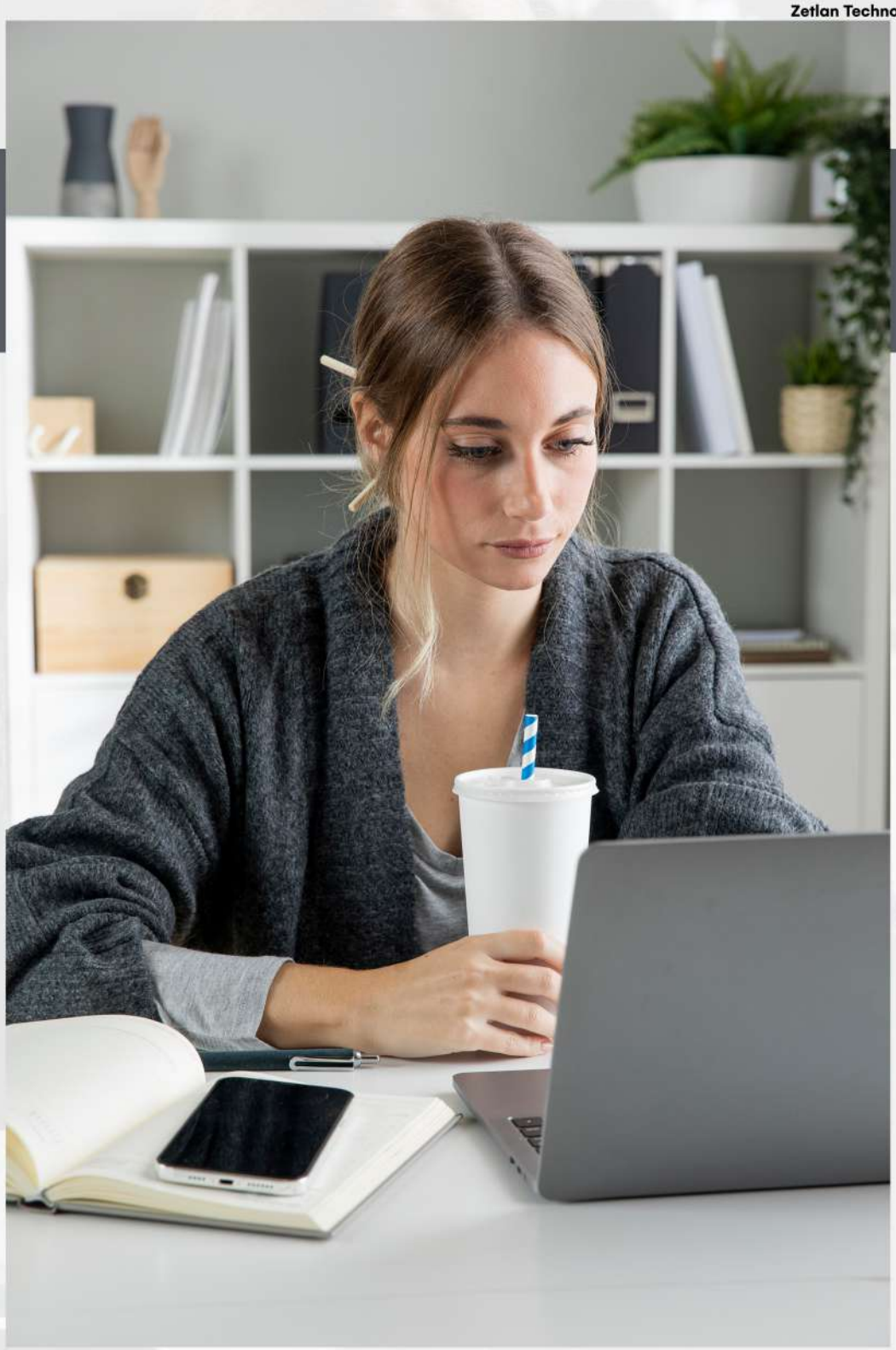

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Online Course

Course Modules

1. **Handling date, time, text, numeric and boolean values**
   - Use primitives & wrapper classes including Math API, etc.,
   - Manipulate text, includg text blocks, usg String & StringBuilder
   - Manipulate date, time, duratn, period, instant & time-zone objcts

2. **Controlling Program Flow**
   - Pogram flow ctrl constructs includg if/else, switch statements

3. **Utilizing Java Object-Oriented Approach**
   - Declare & instantiate Java objects including nested class objects
   - Create classes and records, & define & use instance & static fields
   - Implement overloading, including var-arg methods
   - Understand variable scopes, use local variable type inference
   - Implement inheritance, including abstract & sealed classes
   - Create interfaces, identify functional interfaces, & utilize private
   - Create & use enumerations with fields, methods & constructors

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4. Handling Exceptions

- Handle exceptions using try/catch/finally, try-with-resources

5. Working with Arrays and Collections

- Create Java arrays, List, Set, Map, & Deque cllctns & add, remove

6. Working with Streams and Lambda expressions

- Use Java object & primitive Streams, inludg lambda expressions
- Perform decomposition, concatenation & reduction, & grouping

7. Packaging & deploying Java code & use the Java Platform Module

- Define modules & their dependencies, expose module content
- Compile Java code, produce modular & non-modular jars, runtime

8. Managing concurrent code execution

- Create worker threads using Runnable & Callable, manage thread
- Develop thread-safe code, using different locking mechanisms
- Process Java collctns concurrently includg use of parallel streams

9. Using Java I/O API

- Read and write console and file data using I/O Streams
- Serialize and de-serialize Java objects
- Create, traverse, read, and write Path objects & their properties

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10. Accessing databases using JDBC

- Create connections, create & execute basic, prepared & callable

11. Implementing Localization

- Implement localization using locales, resource bundles, parse

12. Assume the following:

- Missing package & import sttmnts: If sample code do not include
- No file or directory path nams fr classes: If a ques does not state

o All classes are in one file

o Each class is contained in a separate file, & all files are in 1directory

- Unintended line breaks: Sample code might have unintended line
- Code fragments: A code fragmnt is a small section of source code
- Descriptive comments: Take descriptive comment

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13. Candidates are also expected to:

- Understand the basics of Java Logging API.
- Use Annotations such as Override, FunctionalInterface, etc.,
- Use generics, including wildcards.

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The efficiency of online learning in terms of time management, flexibility, and the ability to access resources anytime, anywhere can be compelling.

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