

RAG (Retrieval-Augmented Generation) Results

Question: java abstract classes

Search Method: Cosine

Embedding Model: text-embedding-3-small

Embedding Endpoint: <https://aihubmytesthub7294089329.openai.azure.com/>

Generation Model: Llama-3.3-70B-Instruct

Generation Endpoint: <https://aihubmytesthub7294089329.services.ai.azure.com/models>

Generated: 2025-07-24 15:50:04

Generated Answer

According to the provided context, an abstract class in Java is defined as a "class template" which translates to "template class" (Source: Modifier CLASS METHOD VARIABLE table).

An abstract class is a class that cannot be instantiated on its own and is intended to be inherited by other classes. It can contain both abstract and non-abstract methods. Abstract methods are declared without an implementation, and any non-abstract class that inherits from the abstract class must provide an implementation for all abstract methods.

The context also mentions that an abstract method is a "method template" which means it is declared without defining the function body (Source: Modifier CLASS METHOD VARIABLE table).

Additionally, the context provides information on other Java concepts such as access modifiers (public, private, protected), static methods, and interfaces, but it does not provide a comprehensive overview of abstract classes.

For more information on abstract classes, it is recommended to consult additional resources, such as the Java documentation or programming books. The provided context includes a bibliography with references to Java 9 documentation and tutorials, which may provide more detailed information on abstract classes and other Java concepts.

Specifically, the bibliography mentions "Java 8 in Action" by Raoul-Gabriel Urma, Mario Fusco, Alan Mycroft (2014) and "Building Java Programs" by Pearson (2016), which may cover abstract classes in more detail. However, the context does not provide explicit information on abstract classes from these sources.

In summary, the provided context provides a brief overview of abstract classes in Java, but for a more comprehensive understanding, it is recommended to consult additional resources.

Performance Metrics

Search Time: 2.4649 seconds

Generation Time: 32.1082 seconds

Total Time: 34.5731 seconds

Source Documents

Source 1

Document: Java_9.pdf

Chunk: 5

Relevance Score: 0.5144

Content Preview: Oct. 2017 <https://www.journaldev.com/12850/java-9-private-methods-interfaces>

Source 2

Document: Curs2_3_SDJava.pdf

Chunk: 0

Relevance Score: 0.4680

Content Preview: Programare Java (2) prof.dr.ing. ■tefan -Gheorghe Pentiuc Modificator CLAS■
METOD■ VARIABIL■ public acces permis tutoror claselorpoate fi apelat■ din orice clas■ poate fi
consultat■ / modificat■ din ...

Source 3

Document: Curs2_3_SDJava.pdf

Chunk: 10

Relevance Score: 0.4382

Content Preview: ecated. The finalization mechanism is inherently problematic. Class getClass ()
Returns the runtime class of this Object. int hashCode () Returns a hash code value for the object. void
notify () ...

Source 4

Document: Java_9.pdf

Chunk: 4

Relevance Score: 0.4372

Content Preview: erface, enum , obiecte , instructiuni etc). jshell > int counter = 0 counter ==> 0 jshell
> counter++ \$6 ==> 0 jshell > counter counter ==> 1 BIBLIOGRAFIE •What's New in Oracle JDK ...

Source 5

Document: ExpresiiLambda.pdf

Chunk: 6

Relevance Score: 0.4268

Content Preview: dia, 2014 •Java 8 in Action , by Raoul -Gabriel Urma , Mario Fusco , Alan Mycroft , 2014 Manning Publications •Building Java Programs , Chapter 19, Pearson 2016

RAG Process Summary

This RAG (Retrieval-Augmented Generation) search performed the following steps:

1. **Retrieval:** Found 5 most relevant document chunks using cosine similarity with text-embedding-3-small model from <https://aihubmytesthub7294089329.openai.azure.com/>
2. **Augmentation:** Combined the retrieved content as context
3. **Generation:** Used Llama-3.3-70B-Instruct model from <https://aihubmytesthub7294089329.services.ai.azure.com/models> to generate a comprehensive answer based on the context

RAG provides more accurate and contextual answers by grounding the AI response in your specific document content. Using separate models and endpoints for embedding and generation allows for optimized performance and resource allocation.