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List and description of useful Java libraries

java.base
This library contains classes for basic data types, object-oriented programming features, exception handling, input/output operations, concurrency utilities, and more. It forms the foundation upon which other Java libraries and frameworks are built.

java.compiler
Java's java.compiler library provides a set of APIs and tools for compiling Java source code into bytecode or other forms of executable code. It contains classes and interfaces that allow developers to programmatically invoke the Java compiler to perform compilation tasks.

java.datatransfer
The java.datatransfer library provides a standardized mechanism for transferring data between or within applications. It defines a common format for data exchange and contains classes and interfaces that allow data to be transferred between different platforms and between different applications.

java.logging
Java's java.logging library provides a flexible and configurable logging framework for capturing and recording application logs. It provides a set of classes and methods that allow developers to log different kinds of events, messages, and exceptions during program execution. It’s a useful tool for troubleshooting, debugging, and monitoring your applications.

java.prefs
Java's java.prefs library provides applications with the ability to store and retrieve user and system preferences and configuration settings. It contains classes and interfaces that allow developers to create, read, and modify configuration data in a platform-independent manner.

java.scripting

Java's java.scripting library provides a framework for integrating scripting languages into Java applications. It contains classes and interfaces that allow developers to run scripts written in various scripting languages such as JavaScript, Python, and Ruby within her Java applications.

jdk.accessibility

Java's jdk.accessibility library provides application accessibility support, making your applications more inclusive and accessible to users with disabilities. It contains classes and interfaces that enable developers to implement accessibility features into their applications. B. Provide assistive technologies, including information about user interface components, handle keyboard navigation, and support screen readers and other accessibility tools.

jdk.httpserver

Defines the JDK-specific HTTP server API, and provides the jwebserver tool for running a minimal HTTP server. However, I suspect that this tooling is no longer being maintained.

jdk.jdi

Java's jdk.jdi library provides a Java debugging interface. This allows a developer to write programs that interact with the Java Virtual Machine for debugging purposes.

jdk.shell

Java's jdk.jshell library provides the Java Shell, a Read-Eval-Print Loop tool for interactive Java programming. It contains classes and interfaces that allow developers to run Java code snippets and expressions directly from the command line. It provides a quick and convenient way to experiment with Java language features, test snippets of code, and explore APIs without needing to build a full-fledged Java project.

jdk.jsobject

This one sounds like a great tool for a developer looking to branch from Java to Javascript. The JSObject class provides a way to invoke JavaScript methods and examine JavaScript properties. Any data returned from the JavaScript engine to Java is converted to Java data types. Certain data passed to the JavaScript engine is converted to JavaScript data types.

jdk.management

Java's jdk.management library provides a set of APIs for managing and monitoring the Java Virtual Machine (JVM) and related resources. It contains classes and interfaces that allow developers to programmatically monitor and control various aspects of her JVM such as: B. Memory usage, thread management, garbage collection, and OS level information. This improves performance analysis, troubleshooting, and optimization of Java applications.

jdk.management.agent

Java's jdk.management.agent library provides a mechanism for dynamically instrumenting and monitoring Java applications using Java Management Extensions technology. It allows a developer to dynamically attach a management agent to her running Java process to remotely manage and monitor an application's run-time behavior, performance, and resource usage. This library facilitates the creation of custom management and monitoring tools for Java applications, giving you greater visibility and control over your application's runtime environment.

jdk.net

Platform specific socket options for the java.net and java.nio.channels socket classes.

jdk.snmp

Java's jdk.snmp library provides a set of APIs for implementing Simple Network Management Protocol functionality in Java applications. It includes classes and interfaces that allow developers to create SNMP agents and managers that monitor and manage network devices, collect and report network statistics, and perform SNMP-based operations for network management tasks. It contains. The jdk.snmp library facilitates the integration of SNMP functionality into Java applications.

jdk.zipfs

Java's jdk.zipfs library provides an implementation of the Java File System API that allows developers to work with ZIP files as if they were regular file systems. It contains classes and interfaces that allow developers to programmatically create, read, write, and manipulate the contents of her ZIP files, providing a convenient way to manipulate compressed archives in Java applications. increase. The jdk.zipfs library simplifies working with ZIP files, provides a uniform interface for accessing their contents, and seamlessly integrates them into file-based operations.