

# Summary of Java Imports

Import	Package	Purpose	Usage in Code
com.sun.net.httpserver.HttpServer	com.sun.net.httpserver	Creates and manages an HTTP server for handling API requests.	Sets up server, defines contexts, handles HTTP methods.
java.io.BufferedReader	java.io	Reads text from the HTTP request body efficiently.	Parses JSON payload in POST requests.
java.io.IOException	java.io	Handles I/O exceptions during network and stream operations.	Used in try-catch blocks and method signatures for error handling.
java.io.InputStreamReader	java.io	Converts byte streams to character streams for reading request bodies.	Wraps request body input stream for BufferedReader.
java.io.OutputStream	java.io	Writes byte data to HTTP response bodies.	Sends JSON responses to clients.
java.net.InetSocketAddress	java.net	Specifies the servers network address and port.	Binds the HTTP server to localhost:8080.
java.nio.charset.StandardCharsets	java.nio.charset	Provides UTF-8 encoding for consistent string-to-byte conversion.	Encodes JSON responses in UTF-8.
java.util.ArrayList	java.util	Stores a dynamic list of employees.	Used in PayrollSystem for employee storage and copying.
java.util.List	java.util	Provides a generic list interface for returning employee collections.	Return type for getEmployeeList() to ensure abstraction.

Table 1: Summary of Java imports used in the payroll system application.