A short note on Documentation tools

Javadoc: Generates API documentation for Java code directly from Java source code comments.
Doxygen: Creates documentation from annotated C++, C, Java, and other source code files. Supports various output formats like HTML and LaTeX.
Swagger/OpenAPI: Generates interactive API documentation and client libraries from API specifications.
Postman: Provides interactive API documentation and testing tools for REST APIs.
Jekyll: A static site generator that can be used to create documentation websites from Markdown files.
Sphinx: Used for creating documentation for Python projects; supports reStructuredText and generates outputs in formats like HTML and PDF.
MkDocs: A static site generator designed for project documentation, using Markdown for content.
GitBook: An open-source tool for creating beautiful documentation using Markdown and Git.

Among them, **Javadoc** is preferred for several reasons:

1. Automatic Generation: Javadoc automatically generates API documentation from Java source code comments. This ensures documentation is always up-to-date with the codebase.
2. Standardised Format: It follows a standardised format that is widely recognized in the Java community, making it easier for developers to understand and use.
3. Integration with IDEs: Many Integrated Development Environments (IDEs) like IntelliJ IDEA and Eclipse support Javadoc integration, making it easier to generate and view documentation directly from the development environment.
4. Detailed Documentation: It supports detailed documentation features such as method descriptions, parameter explanations, return values, and code examples.
5. Cross-Referencing: Javadoc allows for cross-referencing between classes, methods, and fields, which helps users navigate through the documentation.
6. HTML Output: It generates well-organised HTML documentation that is easy to browse and search, providing a user-friendly interface for developers.

More about javadoc:

https://docs.oracle.com/javase/8/docs/technotes/tools/windows/javadoc.html