Library Management System Deployment Documentation

1. Introduction
Welcome to the Deployment Documentation for the Library Management System. This document provides instructions on how to install and run the application. By following these steps, you can quickly get the system up and running.

2. Prerequisites
Before deploying the Library Management System, ensure that you have the following prerequisites:
Java Runtime Environment (JRE): The application is written in Java, so you need a JRE installed on your system. You can download the JRE from the official Oracle website or use an OpenJDK distribution.
Source Code: You should have access to the source code of the Library Management System, including all Java source files and the Demo.java or equivalent main class.
Application Files: Download and extract the application files, including the .java source files and any data files you might need.

3. Application Deployment
The Library Management System is a Java-based console application, and it does not require a formal installation process. You can deploy the application by following these steps:

1. Ensure you have the Java Runtime Environment (JRE) installed on your system.
2. Download and extract the application files (source code and data files) to a directory of your choice.

4. Running the Application
To run the Library Management System, follow these steps:
Open a command prompt or terminal.
Navigate to the directory where you have placed the application files.
Compile the Java classes using the javac command:
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javac <MainClass>.java
Replace <MainClass> with the name of your main class, such as Demo.java.
Run the application by executing the main class using the java command:
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java <MainClass>
Replace <MainClass> with the name of your main class.
The application should start, and you can interact with it through the command line.

5. Troubleshooting
If you encounter any issues or errors while running the application, consider the following troubleshooting steps:
Ensure JRE is Installed: Make sure you have the Java Runtime Environment (JRE) installed and correctly configured. You can check the JRE installation by running java -version in the command prompt or terminal.
Check for Compilation Errors: Verify that you compiled the source code without any compilation errors. Review any error messages provided by the javac command.
Classpath: Ensure that the classpath is correctly set to include the current directory (where your compiled .class files are located).
Data Files: If you are using external data files, ensure that they are correctly placed and accessible by the application.
If the issue persists, consider seeking assistance from your development team or support resources.

6. Conclusion
This Deployment Documentation provides instructions for deploying and running the Library Management System. By following these steps, you can successfully set up the application and use it for managing books, authors, and patrons in a library.
Thank you for using the Library Management System!