**Deployment Documentation**

**To deploy and run the Library Management System, follow the steps outlined below:**

Ensure you have a compatible Java Development Kit (JDK) installed on your system.

Choose and set up a Database Management System (DBMS) such as MySQL, PostgreSQL, or SQLite.

**Installation Steps**

**Clone the Repository**

Access the version control system where the repository is hosted (e.g., Git).

**Clone the repository using the provided URL:**

git clone https://github.com/yourusername/library-management-system.git

**Database Configuration**

Create a new database for the Library Management System on your chosen DBMS.

Adjust the database connection details in the application's configuration files located in the src/main/resources directory.

**Compile the Code:**

**Navigate to the project root directory:**

cd library-management-system

**Compile the code using a Java compiler (e.g., javac):**

javac -d target/classes src/main/java/com/library/\*.java

**Run the Application:**

Execute the application using the Java Virtual Machine (JVM):

java -cp target/classes com.library.Library

**Usage Instructions:**

Follow the prompts to manage books, authors, patrons, borrow books, and return books within the application.

**Notes:**

Ensure the JDBC driver for your chosen DBMS is included in the classpath.

Adjust the database connection details in the Library class or the configuration files as needed.

Customize the code or configuration based on specific deployment requirements.

By following these steps, you can successfully deploy and run the Library Management System on your system.