**Development Documentation**

**Javadocs:**

The source code is extensively documented using Javadoc comments to provide detailed explanations of each class, method, and field. You can find the generated Javadocs under /docs/DevDocumentation/Javadocs/.

**Source Code Directory Structure:**

The source code is organized in the following directory structure:

* + JavaSprint/: The main directory containing all Java source files and resources.
  + Book.java: Class file for the Book entity.
  + Author.java: Class file for the Author entity.
  + Patron.java: Class file for the Patron entity.
  + Library.java: Class file for the Library management system.
  + Borrowable.java: Interface defining methods for borrowing and returning books.
  + Status.java: Enum class defining book status constants.

**Build Process:**

To compile the project, simply run the appropriate build command (e.g., javac) on the main directory (JavaSprint/). No additional build tools or dependencies are required.

**Development Standards:**

The project follows standard Java coding conventions and best practices, including meaningful class and method names, proper indentation, and clear and concise code.

**Dependencies:**

There are no external dependencies or libraries required for compilation or development of the project.

**Setting up a Database for Development:**

1. **Choose Database:** Decide on a database system like MySQL or PostgreSQL.
2. **Install Database:** Follow installation instructions for your chosen database.
3. **Create Database:** Using database management tools, create a new database.
4. **Define Tables:** Design tables for books, authors, and patrons, and define their relationships.
5. **Add Sample Data:** Insert sample data into tables for testing.
6. **Configure Application:** Update application settings to connect to the database.
7. **Test Connection:** Ensure the application can connect to the database and perform basic operations.
8. **Handle Errors:** Implement error handling for database-related issues.
9. **Refine as Needed:** Continuously refine database design based on feedback and requirements.

**Accessing Source Code from the Repository:**

The source code repository is accessible via the following URL: https://github.com/RyanGuinchard/Sem3JavaSprint