

## Course End Java Project Report

**Project Name:** Library Management Web-Application ( ALPHA )

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As per the guidelines of the instructors of Java and J2EE Course, Library Management Software uses most of the topics that have been covered during the period of the course. Below is a given list of all the topics that has been used in the following project.

1. JSP( HTML5+CSS+JS+Java Servlet Code)\*
  - a) jsp:include
2. Cookies and Sessions
  - a) Used for creating login sessions
  - b) Cookie operations
3. Servlets
  - a) Get and Post Methods (as per the requirement)
  - b) Request Dispatcher (Forward)
  - c) Using request attributes
  - d) Request parameters
4. JDBC (Java Database Connectivity) using XAMPP
  - a) Connection establishment and operations
  - b) Prepared Statements
  - c) Committing a connection (autoCommit())
  - d) All variants of SQL Codes (INSERT, UPDATE, SELECT, DELETE)
5. String Operations
6. Classes and Objects

### **Features of the Project:**

1. Rich and easy to use UI.
2. Easy to maintain and access all records
3. Searching books made easy and efficient.
4. Books and Records can be exported as an Excel-Spreadsheet (.xls format) for Operational Purposes. \*\*
5. Includes 90% of the topics covered during the period of the course.

### **External Sources and Links**

1. Project Source Code- \*\*Scan the QR Code to get the source code of the project.
2. This Project uses support of XAMPP and Eclipse (Apache Tomcat Server 8.0)
3. HTML5 Editor- Microsoft Expression Web 4
4. Icons and Style-sheets- Icons8, W3-CSS, Bootstrap Framework
5. Images- Google Images
6. Book hyper-links- Google Books



\*All the HTML5, CSS, JS and Servlets code is programmed and in any case no templates or ready code are used (Excluding HTML5 Animations).

\*\*Exporting Table to Excel Spreadsheet using JavaScript source- sharepointpals.com