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| **Class: FYMCA Div: A**  **Semester: II** | **Course Code:**  MCA01554  **Course Name: Java Programming Laboratory** | | **Batch:**  **F1** |
| **Name: Anurag Dalal** | | **Roll No: 51009** | |
| **CO No: CO515.5** | | **Assignment No: 14** | |

**PRACTICAL SUBMISSION RECORD- A.Y. 2024-25**

Title:

Write a JSP code for accepting book id from HTML page. Verify it with book table (Assume suitable fields). If book is already exists, then display its details. If not, insert new details in to table

Code:

<%@ **page** import=*"java.sql.\*, java.io.\*"* %>

<**html**>

<**head**>

<**title**>Book Lookup</**title**>

</**head**>

<**body**>

<**h2**>Book Details Checker</**h2**>

<**form** method=*"post"*>

Enter Book ID: <**input** type=*"text"* name=*"id"* required />

<**input** type=*"submit"* value=*"Check Book"* />

</**form**>

<%

String id = request.getParameter("id");

if (id != null && !id.trim().isEmpty()) {

Connection conn = null;

PreparedStatement stmt = null;

ResultSet rs = null;

try {

Class.forName("com.mysql.cj.jdbc.Driver");

String url = "jdbc:mysql://localhost:3306/java\_practice";

String username = "root";

String password = "";

conn = DriverManager.getConnection(url, username, password);

String checkQuery = "SELECT \* FROM book WHERE id = ?";

stmt = conn.prepareStatement(checkQuery);

stmt.setString(1, id);

rs = stmt.executeQuery();

if (rs.next()) {

out.println("<h3>Book Already Exists!</h3>");

out.println("<p><b>ID:</b> " + rs.getString("id") + "</p>");

out.println("<p><b>Title:</b> " + rs.getString("title") + "</p>");

out.println("<p><b>Author:</b> " + rs.getString("author") + "</p>");

out.println("<p><b>Price:</b> " + rs.getDouble("price") + "</p>");

} else {

String newTitle = "New Book Title";

String newAuthor = "Unknown Author";

double newPrice = 100.0;

String insertQuery = "INSERT INTO book (id, title, author, price) VALUES (?, ?, ?, ?)";

stmt = conn.prepareStatement(insertQuery);

stmt.setString(1, id);

stmt.setString(2, newTitle);

stmt.setString(3, newAuthor);

stmt.setDouble(4, newPrice);

int rows = stmt.executeUpdate();

if (rows > 0) {

out.println("<h3>New book inserted successfully!</h3>");

out.println("<p><b>ID:</b> " + id + "</p>");

out.println("<p><b>Title:</b> " + newTitle + "</p>");

out.println("<p><b>Author:</b> " + newAuthor + "</p>");

out.println("<p><b>Price:</b> " + newPrice + "</p>");

} else {

out.println("<p style='color:red;'>Failed to insert new book.</p>");

}

}

} catch (Exception e) {

out.println("<p style='color:red;'>Error: " + e.getMessage() + "</p>");

StringWriter sw = new StringWriter();

PrintWriter pw = new PrintWriter(sw);

e.printStackTrace(pw);

out.println("<pre>" + sw.toString() + "</pre>");

} finally {

try { if (rs != null) rs.close(); } catch (Exception ex) {}

try { if (stmt != null) stmt.close(); } catch (Exception ex) {}

try { if (conn != null) conn.close(); } catch (Exception ex) {}

}

}

%>

</**body**>

</**html**>

Output:

A screenshot of a check box

Description automatically generated