

EXP NO: 7

22481A0544:

AIM:

Install a database and design a Web application using JSP:

- i. To connect to the database using JDBC.
- ii. Create new tables.
- iii. Insert the details of the users who register through the registration page of the online book store web site in to the database.
- iv. Retrieve and display data related to books stored in the tables to the user.

PROGRAM:

```
<%@page import="java.sql.*"%>

<%

try{

Class.forName("oracle.jdbc.driver.OracleDriver");

out.println("Class will loaded");

Connection
con=DriverManager.getConnection("jdbc:Oracle:thin:@localhost:1521:xe","SYSTEM","cse");

out.println("database connected");

Statement st=con.createStatement();

ResultSet rs=st.executeQuery("CREATE TABLE bookstore2(title varchar(30),author
varchar(20),publisher varchar2(20),price varchar2(20))");

out.println("Create table successfully");

}

catch(Exception e)

{

out.println(e);

}

%>
```



```
<html>

<body bgcolor="cyan">

<h2 align="center">Book-Details</h2>

<center>

<form name="f1" action="insert.jsp">

<table border="1">

<tr>

<td><label>Book-Title</label></td>

<td><input type="text" name="bt"></td>

</tr>

<tr>

<td><label>Author-Name</label></td>

<td><input type="text" name="an"></td>

</tr>

<tr>

<td><label>Publisher-Details</label></td>

<td><input type="text" name="pd"></td>

</tr>

<tr>

<td><label>Price</label></td>

<td><input type="text" name="price"></td>

</tr>

<tr>

<td><input type="submit" value="Store"></td>

<td><input type="reset" value="Clear"></td>

</tr>
```

```
</table>
</form>
</center>
</body>
</html>
<%@ page language="java" contentType="text/html" pageEncoding="UTF-8"%>
<%@ page import="java.sql.*" %>
```

```
<%
```

```
String title = request.getParameter("bt");
String author = request.getParameter("an");
String publisher = request.getParameter("pd");
String price = request.getParameter("price");
```

```
Connection conn = null;
PreparedStatement pstmt = null;
```

```
try {
    Class.forName("oracle.jdbc.driver.OracleDriver");
    conn = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe", "SYSTEM", "cse");

    String sql = "INSERT INTO bookstore (title, author, publication, price) VALUES (?, ?, ?, ?)";
    pstmt = conn.prepareStatement(sql);
    pstmt.setString(1, title);
    pstmt.setString(2, author);
    pstmt.setString(3, publisher);
    pstmt.setString(4, price);

    int i = pstmt.executeUpdate();

    out.println("Data successfully inserted!");
```

```

} catch (Exception e) {

    out.println("An error occurred: " + e.getMessage());

    e.printStackTrace();

} finally {

    if (pstmt != null) try { pstmt.close(); } catch (SQLException e) { e.printStackTrace(); }

    if (conn != null) try { conn.close(); } catch (SQLException e) { e.printStackTrace(); }

}

%>

```

The screenshot shows a web browser with two tabs. The first tab, titled 'localhost:9010/22544/insfortable.jsp', displays a form titled 'Book-Details'. The form contains the following fields and values:

Book-Title	fsad
Author-Name	nag
Publisher-Details	npublisher
Price	999
Store	<input type="button" value="Clear"/>

The second tab, titled 'localhost:9010/22544/insert.jsp', shows the URL 'localhost:9010/22544/insert.jsp?bt=fsad&an=nag&pd=npublisher&price=999'. Below the browser window, the text 'Data successfully inserted!' is displayed.

```

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

<%

try

{

    Class.forName("oracle.jdbc.driver.OracleDriver");

    out.println("Registered the JDBC driver");

    Connection conn = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe",
    "system","cse");

    out.println("<br>Connection Established");

```

```

Statement stmt = conn.createStatement();

out.println("<br>Statement created");

ResultSet rset = stmt.executeQuery ("SELECT * FROM bookstore");

out.println("<table border=1 align=center
font=red><tr><td>Title</td><td>Author</td><td>Publisher</td><td>Price</td></tr>");

while(rset.next())
{
out.println("<tr><td>" + rset.getString(1) + "</td><td>" + rset.getString(2) + "</td><td>" + rset.getString(3) + "</td><td>" + rset.getString(4) + "</td></tr>");
}

out.println("</table>");
}

catch (Exception e)
{
out.println(e);

e.printStackTrace();
}

%>

```



Registered the JDBC driver
Connection Established
Statement created

Title	Author	Publisher	Price
ai	nag	npublisher	999
fsad	null	null	null
fsad	nag	npublisher	999