

**Rajalakshmi Engineering College**  
**Rajalakshmi Nagar, Thandalam, Chennai - 602 105**  
**Department of Computer Science and Engineering**



**JSP - MySQL Connectivity**

**Library Application**

**User Manual**

**(Windows Operating System)**



**Prepared by:**

**B.BHUVANESWARAN**

**Assistant Professor (SS) / CSE / REC**

**[bhuvaneshwaran@rajalakshmi.edu.in](mailto:bhuvaneshwaran@rajalakshmi.edu.in)**

## QUESTION

---

Develop a web application for a Library Management System using JSP. Use cookies as part of the web application and perform appropriate validations. Document the functional requirements you are considering.

Create relations using MYSQL given below enforcing primary key and foreign key constraints:

BOOK (ACCNO, TITLE, AUTHOR, PUBLISHER, EDITION, PRICE)

MEMBER (MID, MNAME, BRANCH)

FINE (MID, FINE\_DATE, AMOUNT)

The primary keys are underlined.

Develop a JSP application using database connectivity to list all records from the above relations and illustrate a join query and an update operation.

## MySQL

---

1. Open MySQL.

2. Create a database.

```
mysql> create database library;  
Query OK, 1 row affected (0.02 sec)
```

3. Connect to the database.

```
mysql> use library;  
Database changed
```

4. Create the following tables:

```
mysql> create table book (accno integer, title varchar(20),  
    -> author varchar(20), publisher varchar(20),  
    -> edition integer, price integer, primary key (accno));  
Query OK, 0 rows affected (0.09 sec)
```

```
mysql> create table member (mid integer, mname varchar(20),  
    -> branch varchar(20), primary key (mid));  
Query OK, 0 rows affected (0.06 sec)
```

```
mysql> create table fine (mid integer references member(mid),  
    -> fine_date date, amount integer);  
Query OK, 0 rows affected (0.06 sec)
```

5. Display the tables.

```
mysql> show tables;  
+-----+  
| Tables_in_library |  
+-----+  
| book               |  
| fine               |  
| member             |  
+-----+  
3 rows in set (0.01 sec)
```

## 6. Display the table structure.

```
mysql> describe book;
```

Field	Type	Null	Key	Default	Extra
accno	int(11)	NO	PRI	0	
title	varchar(20)	YES		NULL	
author	varchar(20)	YES		NULL	
publisher	varchar(20)	YES		NULL	
edition	int(11)	YES		NULL	
price	int(11)	YES		NULL	

```
6 rows in set (0.00 sec)
```

```
mysql> describe member;
```

Field	Type	Null	Key	Default	Extra
mid	int(11)	NO	PRI	0	
mname	varchar(20)	YES		NULL	
branch	varchar(20)	YES		NULL	

```
3 rows in set (0.03 sec)
```

```
mysql> describe fine;
```

Field	Type	Null	Key	Default	Extra
mid	int(11)	YES		NULL	
fine_date	date	YES		NULL	
amount	int(11)	YES		NULL	

```
3 rows in set (0.00 sec)
```

## 7. Insert rows in the table.

```
mysql> insert into book values (1, 'C', 'Balagurusamy', 'Tata', 3, 200);  
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into book values (2, 'C++', 'Balagurusamy', 'Tata', 4,  
300);  
Query OK, 1 row affected (0.03 sec)
```

```
mysql> insert into book values (3, 'DS', 'Weiss', 'Pearson', 3, 250);  
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into book values (4, 'Internet', 'Deitel', 'Pearson', 3, 500);  
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into book values (5, 'Java', 'Arun', 'Pearson', 3, 400);  
Query OK, 1 row affected (0.03 sec)
```

```
mysql> insert into member values (1, 'Arun', 'BIOMED');
Query OK, 1 row affected (0.03 sec)
```

```
mysql> insert into member values (2, 'Babu', 'BIOMED');
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into member values (3, 'Chithra', 'BIOMED');
Query OK, 1 row affected (0.03 sec)
```

```
mysql> insert into fine values (1, '2014-04-21', 100);
Query OK, 1 row affected (0.03 sec)
```

```
mysql> insert into fine values (2, '2014-04-21', 200);
Query OK, 1 row affected (0.03 sec)
```

8. Display the records from the table.

```
mysql> select * from book;
```

accno	title	author	publisher	edition	price
1	C	Balagurusamy	Tata	3	200
2	C++	Balagurusamy	Tata	4	300
3	DS	Weiss	Pearson	3	250
4	Internet	Deitel	Pearson	3	500
5	Java	Arun	Pearson	3	400

```
5 rows in set (0.00 sec)
```

```
mysql> select * from member;
```

mid	mname	branch
1	Arun	BIOMED
2	Babu	BIOMED
3	Chithra	BIOMED

```
3 rows in set (0.00 sec)
```

```
mysql> select * from fine;
```

mid	fine_date	amount
1	2014-04-21	100
2	2014-04-21	200

```
2 rows in set (0.00 sec)
```

## JSP – MySQL – Connectivity Displaying Book Information

---

1. Open Eclipse
2. Select the Workspace.
3. Select File → New → Other.
4. Select Dynamic Web Project under Web.
5. Click Next.
6. Enter the Project name as LMS.
7. Choose Target runtime as Apache Tomcat v7.0.
8. Click Next.
9. Click Next.
10. Click Finish.
11. Click Yes for Open Associated Perspective?
12. Select LMS Project in the Package Explorer (available in the left hand side of the window).
13. Right Click → New → HTML File.
14. Enter the File name as BookInfo.
15. Click Next.
16. Click Finish.
17. Change the title as Book Info.
18. Enter the following code inside the body tag:

```
<form method="post" action="BookInfo.jsp">
<center>
<h2>Library Management System</h2>
</center>
<hr>
Enter the Acc No.
<input type="text" name="accno">
<input type="submit" value="Get Details">
</form>
```

19. Select LMS Project in the Package Explorer (available in the left hand side of the window).

20. Right Click → New → JSP File.

21. Enter the File name as BookInfo.

22. Click Next.

23. Click Finish.

24. Change the title as Book Info.

25. Add the statement import="java.sql.\*" at the end of the page directive.

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1" import="java.sql.*"%>
```

26. Enter the following code inside the body tag:

```
<%
    Connection conn = null;
    PreparedStatement ps = null;
    ResultSet rs = null;
%>
```

27. Create a try...catch block inside the scriptlet <% %>:

```
try
{
}
catch(Exception e)
{
    out.println(e);
}
```

28. Enter the following statements inside the try block:

```
Class.forName("com.mysql.jdbc.Driver");
String URL = "jdbc:mysql://localhost:3306/library";
conn = DriverManager.getConnection(URL, "root", "admin");
```

29. Select the file mysql-connector-java-5.1.29-bin.jar from your hard disk and press Ctrl+C to copy.

30. Select LMS in the Package Explorer.

31. Select WebContent → WEB-INF → lib.

32. Press Ctrl+V to paste.

33. Continue entering the following statements inside the try block:

```
ps = conn.prepareStatement("select * from book where accno = ?");
String accno = request.getParameter("accno");
ps.setString(1, accno);
rs = ps.executeQuery();
if(rs.next())
{
    out.println("<center><h3>Book Info</h3></center>");
    out.println("<hr>");
    out.println("Acc No. :" + rs.getInt(1));
    out.println("<br>");
    out.println("Title :" + rs.getString(2));
    out.println("<br>");
    out.println("Author :" + rs.getString(3));
    out.println("<br>");
    out.println("Publisher :" + rs.getString(4));
    out.println("<br>");
    out.println("Edition :" + rs.getInt(5));
    out.println("<br>");
    out.println("price :" + rs.getInt(6));
    out.println("<br>");
}
rs.close();
ps.close();
conn.close();
```

34. Right Click inside the Code Window of BookInfo.html.

35. Select Run As → Run on Server.

36. Select the Tomcat v7.0 Server at localhost.

37. Click Next.

38. Click Finish.

39. It will open a browser window.

40. Enter the Book Acc No. and click Get Details.

41. The records will be displayed in browser window.

42. The full source code for BookInfo.html is:

```
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Library Management System</title>
</head>
```



```

<body>
<form method="post" action="BookInfo.jsp">
<center>
<h2>Library Management System</h2>
</center>
<hr>
Enter the Acc No.
<input type="text" name="accno">
<input type="submit" value="Get Details">
</form>
</body>
</html>

```

43. The full source code for BookInfo.jsp is:

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1" import="java.sql.*"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Book Info</title>
</head>
<body>
<%
    Connection conn = null;
    PreparedStatement ps = null;
    ResultSet rs = null;
    try
    {
        Class.forName("com.mysql.jdbc.Driver");
        String URL = "jdbc:mysql://localhost:3306/library";
        conn = DriverManager.getConnection(URL, "root", "admin");
        ps = conn.prepareStatement("select * from book where accno = ?");
        String accno = request.getParameter("accno");
        ps.setString(1, accno);
        rs = ps.executeQuery();
        if(rs.next())
        {
            out.println("<center><h3>Book Info</h3></center>");
            out.println("<hr>");
            out.println("Acc No. :" + rs.getInt(1));
            out.println("<br>");
            out.println("Title :" + rs.getString(2));
            out.println("<br>");
            out.println("Author :" + rs.getString(3));
            out.println("<br>");
            out.println("Publisher :" + rs.getString(4));
            out.println("<br>");
            out.println("Edition :" + rs.getInt(5));
            out.println("<br>");
            out.println("price :" + rs.getInt(6));
            out.println("<br>");
        }
        rs.close();
        ps.close();
        conn.close();
    }
    }

```

```
        catch(Exception e)
        {
            out.println(e);
        }
%>
</body>
</html>
```

## JSP – MySQL – Connectivity

### Displaying Member Information

---

1. Select LMS Project in the Package Explorer (available in the left hand side of the window).
2. Right Click → New → HTML File.
3. Enter the File name as MemberInfo.
4. Click Next.
5. Click Finish.
6. Change the title as Member Info.
7. Enter the following code inside the body tag:

```
<form method="post" action="MemberInfo.jsp">
<center>
<h2>Library Management System</h2>
</center>
<hr>
Enter the Member Id.
<input type="text" name="mid">
<input type="submit" value="Get Details">
</form>
```

8. Select LMS Project in the Package Explorer (available in the left hand side of the window).
9. Right Click → New → JSP File.
10. Enter the File name as MemberInfo.
11. Click Next.
12. Click Finish.
13. Simply copy the entire code available in the BookInfo.jsp file paste into the file MemberInfo.jsp.
14. Change the title as Member Info.
15. Do the following modifications in the code:

```
ps = conn.prepareStatement("select * from member where mid = ?");
String mid = request.getParameter("mid");
ps.setString(1, mid);
rs = ps.executeQuery();
if(rs.next())
{
    out.println("<center><h3>Member Info</h3></center>");
}
```

```

        out.println("<hr>");
        out.println("Member Id. :" + rs.getInt(1));
        out.println("<br>");
        out.println("Name :" + rs.getString(2));
        out.println("<br>");
        out.println("Branch :" + rs.getString(3));
        out.println("<br>");
    }
    rs.close();
    ps.close();
    conn.close();

```

16. Right Click inside the Code Window of MemberInfo.html.

17. Select Run As → Run on Server.

18. Select the Tomcat v7.0 Server at localhost.

19. Click Next.

20. Click Finish.

21. It will open a browser window.

22. Enter the Member Id. and click Get Details.

23. The records will be displayed in browser window.

24. The full source code for MemberInfo.html is:

```

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Member Info</title>
</head>
<body>
<form method="post" action="MemberInfo.jsp">
<center>
<h2>Library Management System</h2>
</center>
<hr>
Enter the Member Id.
<input type="text" name="mid">
<input type="submit" value="Get Details">
</form>
</body>
</html>

```

25. The full source code for MemberInfo.jsp is:

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1" import="java.sql.*"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Book Info</title>
</head>
<body>
<%
    Connection conn = null;
    PreparedStatement ps = null;
    ResultSet rs = null;
    try
    {
        Class.forName("com.mysql.jdbc.Driver");
        String URL = "jdbc:mysql://localhost:3306/library";
        conn = DriverManager.getConnection(URL, "root", "admin");
        ps = conn.prepareStatement("select * from member where mid = ?");
        String mid = request.getParameter("mid");
        ps.setString(1, mid);
        rs = ps.executeQuery();
        if(rs.next())
        {
            out.println("<center><h3>Member Info</h3></center>");
            out.println("<hr>");
            out.println("Member Id. : " + rs.getInt(1));
            out.println("<br>");
            out.println("Name : " + rs.getString(2));
            out.println("<br>");
            out.println("Branch : " + rs.getString(3));
            out.println("<br>");
        }
        rs.close();
        ps.close();
        conn.close();
    }
    catch(Exception e)
    {
        out.println(e);
    }
%>
</body>
</html>
```

## JSP – MySQL – Connectivity

### Displaying Fine Information

---

1. Select LMS Project in the Package Explorer (available in the left hand side of the window).
2. Right Click → New → HTML File.
3. Enter the File name as FineInfo.
4. Click Next.
5. Click Finish.
6. Change the title as Fine Info.
7. Enter the following code inside the body tag:

```
<form method="post" action="FineInfo.jsp">
<center>
<h2>Library Management System</h2>
</center>
<hr>
Enter the Member Id.
<input type="text" name="mid">
<input type="submit" value="Get Details">
</form>
```

8. Select LMS Project in the Package Explorer (available in the left hand side of the window).
9. Right Click → New → JSP File.
10. Enter the File name as FineInfo.
11. Click Next.
12. Click Finish.
13. Simply copy the entire code available in the BookInfo.jsp file paste into the file FineInfo.jsp.
14. Change the title as Fine Info.
15. Do the following modifications in the code:

```
ps = conn.prepareStatement("select m.mid, m.mname, f.fine_date,
f.amount from member m, fine f where m.mid = f.mid and f.mid = ?");
String mid = request.getParameter("mid");
ps.setString(1, mid);
rs = ps.executeQuery();
out.println("<center><h3>Ind. Fine Info</h3></center>");
out.println("<hr>");
```

```

while(rs.next())
{
    out.println("Member Id. :" + rs.getInt(1));
    out.println("<br>");
    out.println("Name :" + rs.getString(2));
    out.println("<br>");
    out.println("Date :" + rs.getString(3));
    out.println("<br>");
    out.println("Amount :" + rs.getString(4));
    out.println("<br>");
}
rs.close();
ps.close();
conn.close();

```

16. Right Click inside the Code Window of FineInfo.html.

17. Select Run As → Run on Server.

18. Select the Tomcat v7.0 Server at localhost.

19. Click Next.

20. Click Finish.

21. It will open a browser window.

22. Enter the Member Id. and click Get Details.

23. The records will be displayed in browser window.

24. The full source code for FineInfo.html is:

```

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Fine Info</title>
</head>
<body>
<form method="post" action="FineInfo.jsp">
<center>
<h2>Library Management System</h2>
</center>
<hr>
Enter the Member Id.
<input type="text" name="mid">
<input type="submit" value="Get Details">
</form>
</body>
</html>

```

25. The full source code for FineInfo.jsp is:

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1" import="java.sql.*"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Fine Info</title>
</head>
<body>
<%
    Connection conn = null;
    PreparedStatement ps = null;
    ResultSet rs = null;
    try
    {
        Class.forName("com.mysql.jdbc.Driver");
        String URL = "jdbc:mysql://localhost:3306/library";
        conn = DriverManager.getConnection(URL, "root", "admin");
        ps = conn.prepareStatement("select m.mid, m.mname, f.fine_date, f.amount
from member m, fine f where m.mid = f.mid and f.mid = ?");
        String mid = request.getParameter("mid");
        ps.setString(1, mid);
        rs = ps.executeQuery();
        out.println("<center><h3>Ind. Fine Info</h3></center>");
        out.println("<hr>");
        while(rs.next())
        {
            out.println("Member Id. :" + rs.getInt(1));
            out.println("<br>");
            out.println("Name :" + rs.getString(2));
            out.println("<br>");
            out.println("Date :" + rs.getString(3));
            out.println("<br>");
            out.println("Amount :" + rs.getString(4));
            out.println("<br>");
        }
        rs.close();
        ps.close();
        conn.close();
    }
    catch(Exception e)
    {
        out.println(e);
    }
%>
</body>
</html>
```



## JSP – MySQL – Connectivity

### Inserting Book Information

---

1. Select LMS Project in the Package Explorer (available in the left hand side of the window).
2. Right Click → New → HTML File.
3. Enter the File name as BookInfoAdd.
4. Click Next.
5. Click Finish.
6. Change the title as Book Info - Add.
7. Enter the following code inside the body tag:

```
<form method="post" action="BookInfoAdd.jsp">
<center>
<h2>Library Management System</h2>
</center>
<hr>
Acc. No.
<input type="text" name="accno">
<br>
Title
<input type="text" name="title">
<br>
Author
<input type="text" name="author">
<br>
Publisher
<input type="text" name="publisher">
<br>
Edition
<input type="text" name="edition">
<br>
Price
<input type="text" name="price">
<br>
<input type="submit" value="Add Details">
</form>
```

8. Select LMS Project in the Package Explorer (available in the left hand side of the window).
9. Right Click → New → JSP File.
10. Enter the File name as BookInfoAdd.
11. Click Next.

12. Click Finish.

13. Change the title as Book Info - Add.

14. Add the statement import="java.sql.\*" at the end of the page directive.

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1" import="java.sql.*"%>
```

15. Enter the following code inside the body tag:

```
<%
    Connection conn = null;
    PreparedStatement ps = null;
%>
```

16. Create a try...catch block inside the scriptlet <% %>:

```
try
{
}
catch(Exception e)
{
    out.println(e);
}
```

17. Enter the following statements inside the try block:

```
Class.forName("com.mysql.jdbc.Driver");
String URL = "jdbc:mysql://localhost:3306/library";
conn = DriverManager.getConnection(URL, "root", "admin");
```

18. Continue entering the following statements inside the try block:

```
ps = conn.prepareStatement("insert into book values (?, ?, ?, ?, ?, ?)");
String accno = request.getParameter("accno");
String title = request.getParameter("title");
String author = request.getParameter("author");
String publisher = request.getParameter("publisher");
String edition = request.getParameter("edition");
String price = request.getParameter("price");
ps.setString(1, accno);
ps.setString(2, title);
ps.setString(3, author);
ps.setString(4, publisher);
ps.setString(5, edition);
ps.setString(6, price);
ps.executeUpdate();
out.println("<center><h3>Book Details Added</h3></center>");
ps.close();
conn.close();
```

19. Right Click inside the Code Window of BookInfoAdd.html.
20. Select Run As → Run on Server.
21. Select the Tomcat v7.0 Server at localhost.
22. Click Next.
23. Click Finish.
24. It will open a browser window.
25. Enter the Acc. No., Title, Author, Publisher, Edition, Price and click Add Details.
26. The records inserted in MySQL database.
27. The full source code for BookInfoAdd.html is:

```
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Book Info - Add</title>
</head>
<body>
<form method="post" action="BookInfoAdd.jsp">
<center>
<h2>Library Management System</h2>
</center>
<hr>
Acc. No.
<input type="text" name="accno">
<br>
Title
<input type="text" name="title">
<br>
Author
<input type="text" name="author">
<br>
Publisher
<input type="text" name="publisher">
<br>
Edition
<input type="text" name="edition">
<br>
Price
<input type="text" name="price">
<br>
<input type="submit" value="Add Details">
</form>
</body>
</html>
```

28. The full source code for BookInfoAdd.jsp is:

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1" import="java.sql.*"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Book Info - Add</title>
</head>
<body>
<%
    Connection conn = null;
    PreparedStatement ps = null;
    try
    {
        Class.forName("com.mysql.jdbc.Driver");
        String URL = "jdbc:mysql://localhost:3306/library";
        conn = DriverManager.getConnection(URL, "root", "admin");
        ps = conn.prepareStatement("insert into book values (?,?,?,?,?,?)");
        String accno = request.getParameter("accno");
        String title = request.getParameter("title");
        String author = request.getParameter("author");
        String publisher = request.getParameter("publisher");
        String edition = request.getParameter("edition");
        String price = request.getParameter("price");
        ps.setString(1, accno);
        ps.setString(2, title);
        ps.setString(3, author);
        ps.setString(4, publisher);
        ps.setString(5, edition);
        ps.setString(6, price);
        ps.executeUpdate();
        out.println("<center><h3>Book Details Added</h3></center>");
        ps.close();
        conn.close();
    }
    catch(Exception e)
    {
        out.println(e);
    }
%>
</body>
</html>
```

## JSP – MySQL – Connectivity

### Inserting Member Information

---

1. Select LMS Project in the Package Explorer (available in the left hand side of the window).
2. Right Click → New → HTML File.
3. Enter the File name as MemberInfoAdd.
4. Click Next.
5. Click Finish.
6. Change the title as Memebr Info - Add.
7. Enter the following code inside the body tag:

```
<form method="post" action="MemberInfoAdd.jsp">
<center>
<h2>Library Management System</h2>
</center>
<hr>
Member Id.
<input type="text" name="mid">
Name
<input type="text" name="mname">
Branch
<input type="text" name="branch">
<input type="submit" value="Add Details">
</form>
```

8. Select LMS Project in the Package Explorer (available in the left hand side of the window).
9. Right Click → New → JSP File.
10. Enter the File name as MemberInfoAdd.
11. Click Next.
12. Click Finish.
13. Simply copy the entire code available in the BookInfoAdd.jsp file paste into the file MemberInfoAdd.jsp.
14. Change the title as Member Info - Add.
15. Do the following modifications in the code:

```
ps = conn.prepareStatement("insert into member values (?, ?, ?)");
```

```
String mid = request.getParameter("mid");
String mname = request.getParameter("mname");
String branch = request.getParameter("branch");
ps.setString(1, mid);
ps.setString(2, mname);
ps.setString(3, branch);
ps.executeUpdate();
out.println("<center><h3>Member Details Added</h3></center>");
ps.close();
conn.close();
```

16. Right Click inside the Code Window of MemberInfoAdd.html.

17. Select Run As → Run on Server.

18. Select the Tomcat v7.0 Server at localhost.

19. Click Next.

20. Click Finish.

21. It will open a browser window.

22. Enter the Member Id., Name, Branch and click Add Details.

23. The records inserted in MySQL database.

24. The full source code for MemberInfoAdd.html is:

```
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Member Info - Add</title>
</head>
<body>
<form method="post" action="MemberInfoAdd.jsp">
<center>
<h2>Library Management System</h2>
</center>
<hr>
Member Id.
<input type="text" name="mid">
Name
<input type="text" name="mname">
Branch
<input type="text" name="branch">
<input type="submit" value="Add Details">
</form>
</body>
</html>
```

25. The full source code for MemberInfoAdd.jsp is:

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1" import="java.sql.*"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Book Info - Add</title>
</head>
<body>
<%
    Connection conn = null;
    PreparedStatement ps = null;
    try
    {
        Class.forName("com.mysql.jdbc.Driver");
        String URL = "jdbc:mysql://localhost:3306/library";
        conn = DriverManager.getConnection(URL, "root", "admin");
        ps = conn.prepareStatement("insert into member values (?, ?, ?)");
        String mid = request.getParameter("mid");
        String mname = request.getParameter("mname");
        String branch = request.getParameter("branch");
        ps.setString(1, mid);
        ps.setString(2, mname);
        ps.setString(3, branch);
        ps.executeUpdate();
        out.println("<center><h3>Member Details Added</h3></center>");
        ps.close();
        conn.close();
    }
    catch(Exception e)
    {
        out.println(e);
    }
%>
</body>
</html>
```





# RAJALAKSHMI

## ENGINEERING COLLEGE

*Website : [www.rajalakshmi.org](http://www.rajalakshmi.org)*

*Elearning : [www.rajalakshmiengg.com](http://www.rajalakshmiengg.com)*

***Give a man a fish and you feed him for a day.  
Teach him how to fish and you feed him for a lifetime.***