

Implementation of CRUD using PreparedStatement Interface

=> PreparedStatement interface allow write Parametrized Query.

Example

Create a Table emp_mstr in existing Data Base (dbmstr)

emp_mstr(ecode,ename,epost,econt,email)

New table in 'dbmstr'

	Field Name	Datatype	Len	Default
	ecode	int	4	
	ename	varchar	20	
	epost	varchar	30	
	econt	numeric	10	
*	email	varchar	40	


Create a new table

Enter new table name

emp_mstr

OK Cancel

Create Table... Advanced Properties... Preview... Insert Delete

 New Servlet ✕

Steps	Name and Location
1. Choose File Type	Class Name: <input type="text" value="EmpReg"/>
2. Name and Location	Project: <input type="text" value="ServletJdbcJsp1"/>
3. Configure Servlet Deployment	Location: <input type="text" value="Source Packages"/>
	Package: <input type="text" value="jdbc2"/>
	Created File: <input type="text" value="s\Asus\Documents\NetBeansProjects\ServletJdbcJsp1\src\java\jdbc2\EmpReg.java"/>

< Back Next > Finish Cancel Help

Open NetBeanspackage jdbc2;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

```
import javax.servlet.http.HttpServletResponse;

public class EmpReg extends HttpServlet {

    protected void service(HttpServletRequest request, HttpServletResponse response)

        throws ServletException, IOException {

        response.setContentType("text/html;charset=UTF-8");

        try (PrintWriter out = response.getWriter()) {

            out.println("<!DOCTYPE html>");

            out.println("<html>");

            out.println("<head>");

            out.println("<title>Employee Registration Page</title>");

            out.println("</head>");

            out.println("<body><center>");

            out.println("<h1>Employee Registration Page</h1>"

                + "<form action=EmpRegConf>"

                + "<table width=400 bgcolor=lightblue border=1 cellpadding=20>"

                + "<tr><td>Employee Code</td><td><input type=number name=code></td></tr>"

                + "<tr><td>Employee Name</td><td><input type=text name=name></td></tr>"

                + "<tr><td>Employee Post</td><td><input type=text name=post></td></tr>"

                + "<tr><td>Employee Contact</td><td><input type=number name=cont></td></tr>"

                + "<tr><td>E Mail Address</td><td><input type=mail name=mail></td></tr>"

                + "<tr><td><input type=submit value=Sumbit></td><td><input type=reset value=Reset></td></tr>"

                + "</table></form>");

            out.println("</center></body>");

            out.println("</html>");

        }

        catch(Exception e)

        {

            e.printStackTrace();

        }

    }


}
```

```

}

}

```


New Servlet
×

Steps

1. Choose File Type
- 2. Name and Location**
3. Configure Servlet Deployment

Name and Location

Class Name:

Project:

Location:

Package:

Created File:

```

package jdbc2;

import DB.DBConnection;
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

```

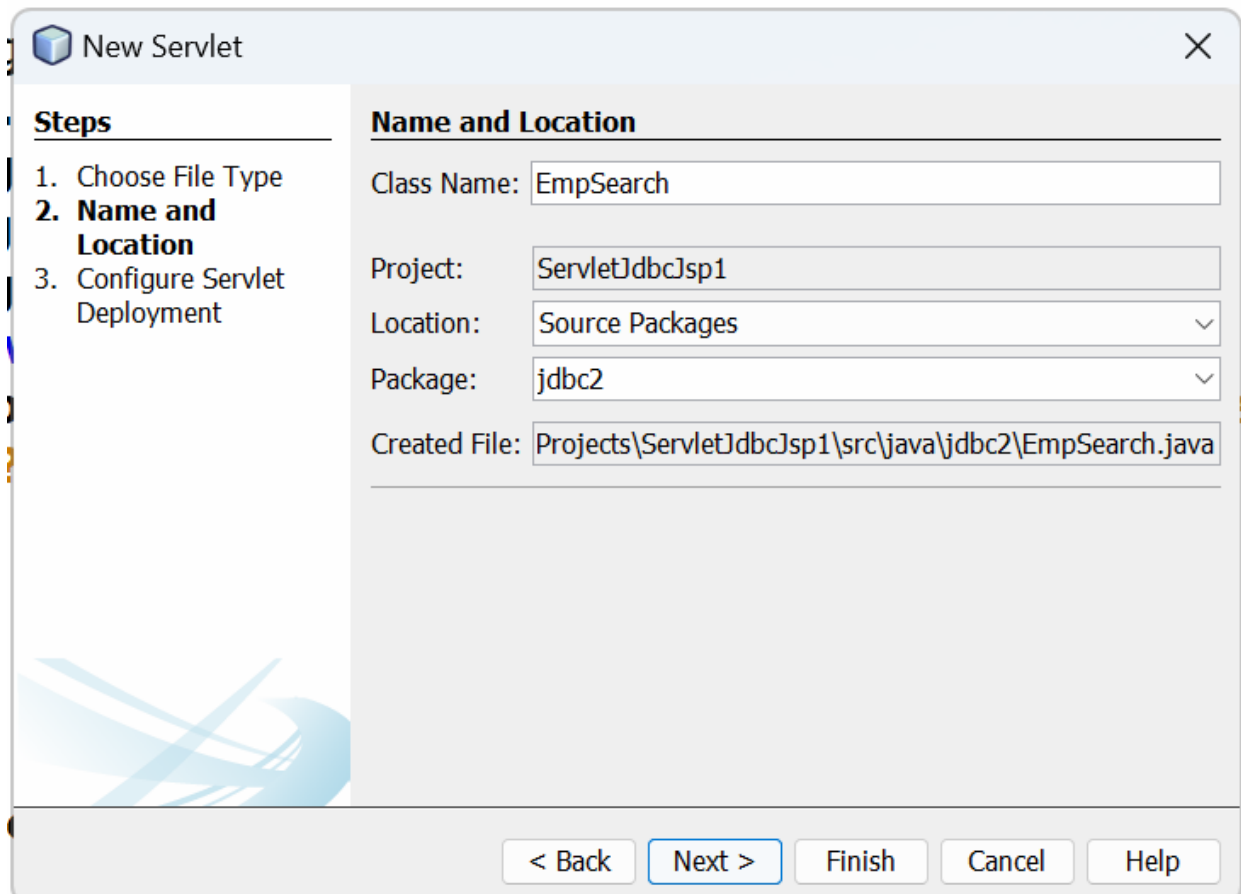
```
public class EmpRegConf extends HttpServlet {

    protected void service(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        try (PrintWriter out = response.getWriter())
        {
            String code=request.getParameter("code");
            String name=request.getParameter("name");
            String post=request.getParameter("post");
            String cont=request.getParameter("cont");
            String mail=request.getParameter("mail");
            DBConnection db=new DBConnection();
            db.pstmt=db.con.prepareStatement("insert into emp_mstr(ecode,ename,epost,econt,email)"
                + " values(?,?,?,?,?)");
            db.pstmt.setString(1, code);
            db.pstmt.setString(2, name);
            db.pstmt.setString(3, post);
            db.pstmt.setString(4, cont);
            db.pstmt.setString(5, mail);
            int i=db.pstmt.executeUpdate();
            if(i>0)
                out.println("Employee Added successfully");
            else
                out.println("Error-----");

        }

        catch(Exception e)
        {
```

```
e.printStackTrace();  
}  
  
}  
  
}
```

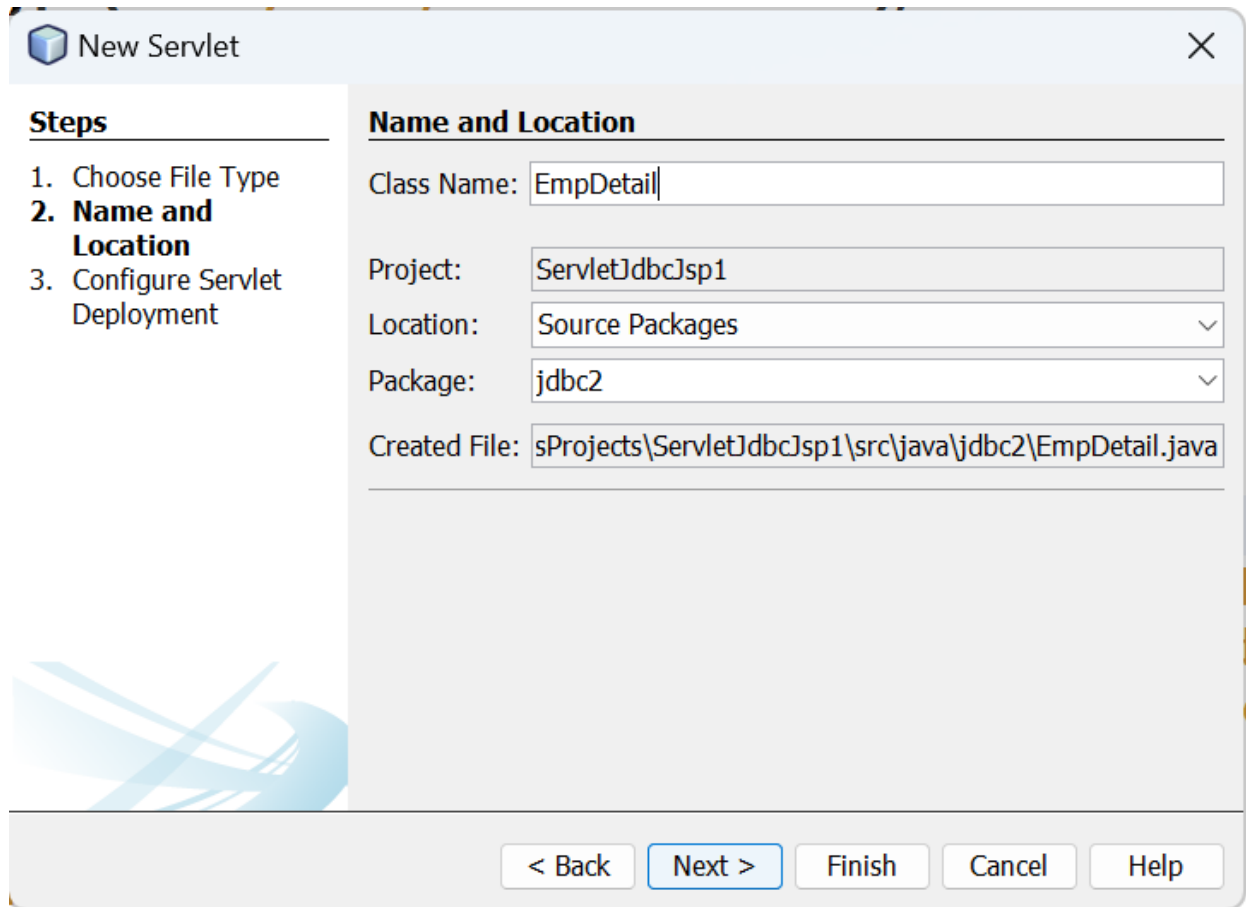


The image shows a 'New Servlet' dialog box with a sidebar on the left and a main configuration area on the right. The sidebar contains a 'Steps' list: 1. Choose File Type, 2. Name and Location (highlighted), and 3. Configure Servlet Deployment. The main area is titled 'Name and Location' and contains several input fields: 'Class Name' with the value 'EmpSearch', 'Project' with 'ServletJdbcJsp1', 'Location' with 'Source Packages', 'Package' with 'jdbc2', and 'Created File' with the path 'Projects\ServletJdbcJsp1\src\java\jdbc2\EmpSearch.java'. At the bottom, there are five buttons: '< Back', 'Next >', 'Finish', 'Cancel', and 'Help'.

Steps	Name and Location
1. Choose File Type	Class Name: EmpSearch
2. Name and Location	Project: ServletJdbcJsp1
3. Configure Servlet Deployment	Location: Source Packages
	Package: jdbc2
	Created File: Projects\ServletJdbcJsp1\src\java\jdbc2\EmpSearch.java

```
package jdbc2;  
  
import java.io.IOException;  
import java.io.PrintWriter;  
import javax.servlet.ServletException;
```

```
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
public class EmpSearch extends HttpServlet {
    protected void service(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        try (PrintWriter out = response.getWriter()) {
            out.println("<!DOCTYPE html>");
            out.println("<html>");
            out.println("<head>");
            out.println("<title>EmpSearch</title>");
            out.println("</head>");
            out.println("<body><center>");
            out.println("<h1>Employee Search Detail</h1>"
                + "<form action=EmpDetail>"
                + "<table width=400 cellpadding=30 border=1 bgcolor=lightgrey>"
                + "<tr><td>Employee Code</td><td><input type=number name=code></td></tr>"
                + "<tr><td><input type=submit Value=Search></td><td><input type=reset value=Reset></td></tr>"
                + "</form>");
            out.println("</center></body>");
            out.println("</html>");
        }
    }
}
```

The image shows a 'New Servlet' dialog box with a 'Steps' sidebar and a 'Name and Location' main area. The 'Steps' sidebar lists: 1. Choose File Type, 2. Name and Location (highlighted), 3. Configure Servlet Deployment. The 'Name and Location' area contains fields for Class Name (EmpDetail), Project (ServletJdbcJsp1), Location (Source Packages), Package (jdbc2), and Created File (sProjects\ServletJdbcJsp1\src\java\jdbc2\EmpDetail.java). At the bottom are buttons for '< Back', 'Next >', 'Finish', 'Cancel', and 'Help'.

Steps	Name and Location
1. Choose File Type	Class Name: <input type="text" value="EmpDetail"/>
2. Name and Location	Project: <input type="text" value="ServletJdbcJsp1"/>
3. Configure Servlet Deployment	Location: <input type="text" value="Source Packages"/>
	Package: <input type="text" value="jdbc2"/>
	Created File: <input type="text" value="sProjects\ServletJdbcJsp1\src\java\jdbc2\EmpDetail.java"/>

/*

* To change this license header, choose License Headers in Project Properties.

* To change this template file, choose Tools | Templates

* and open the template in the editor.

*/

```
package jdbc2;
```

```
import DB.DBConnection;
```

```
import java.io.IOException;
```

```
import java.io.PrintWriter;
```

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```
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

public class EmpDetail extends HttpServlet {

    public void service(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        try (PrintWriter out = response.getWriter())
        {
            out.println("<!DOCTYPE html>");
            out.println("<html>");
            out.println("<head>");
            out.println("<title>Servlet EmpDetail</title>");
            out.println("</head>");
            out.println("<body><center>");

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

            DBConnection db=new DBConnection();

            db.pstmt=db.con.prepareStatement("select * from emp_mstr where ecode=?");

            db.pstmt.setString(1, code);

            db.rst=db.pstmt.executeQuery();

            if(db.rst.next())
            {
                out.println("<h1>Employee Search Detail</h1>"
                    + "<form action=EmpUpdateDelete>"
                    + "<table width=400 cellpadding=20 border=1 bgcolor=lightgrey>"
                    + "<tr><td>Employee Code</td><td><input type=number name=code"
                    value="" + db.rst.getString(1) + "" "></td></tr>"
```

```
+ "<tr><td>Employee Name</td><td><input type=text name=name
value='"+db.rst.getString(2)+"'></td></tr>"

+ "<tr><td>Employee Post</td><td><input type=text name=post
value='"+db.rst.getString(3)+"'></td></tr>"

+ "<tr><td>Employee Contact</td><td><input type=number name=cont
value='"+db.rst.getString(4)+"'></td></tr>"

+ "<tr><td>Employee E Mail</td><td><input type=text name=mail
value='"+db.rst.getString(5)+"'></td></tr>"

+ "<tr><td><input type=submit Value=Update name=opr></td><td><input type=submit value=Delete
name=opr></td></tr>"

    + "</form>");
}

else
{
    out.println("<h2>Record does not Match</h2>");
}

out.println("</body>");
out.println("</html>");
}

catch(Exception e)
{
    e.printStackTrace();
}

}
```

