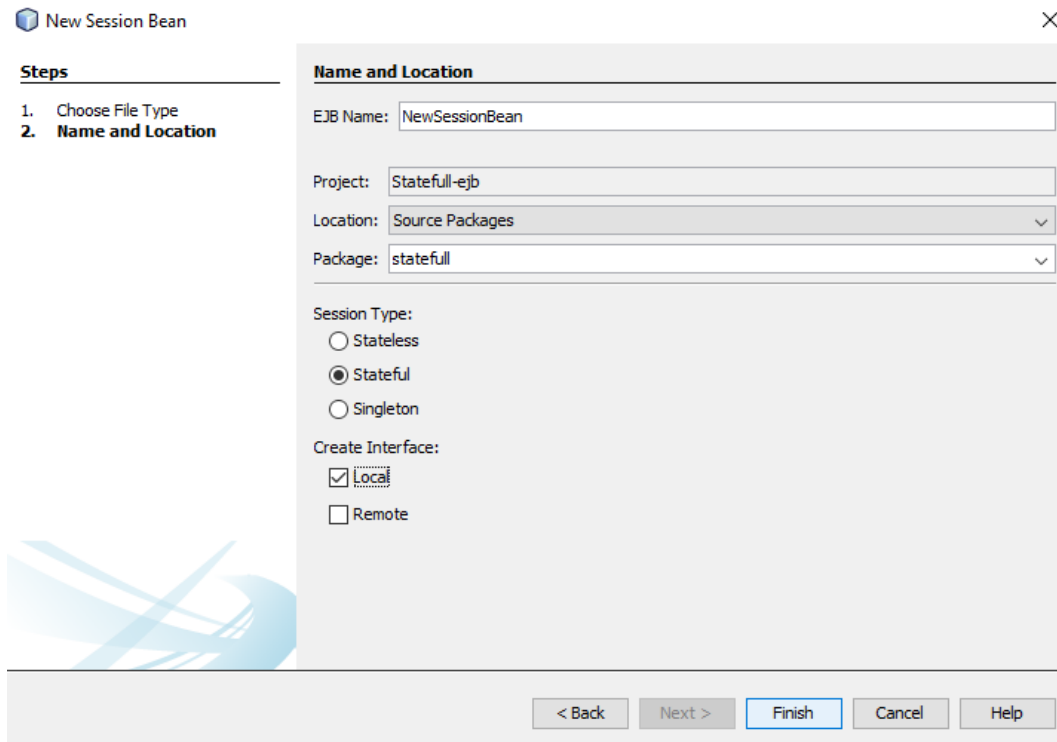


Practical No.: 6D

Aim: Demonstrate a program on Statefull Bean

File → New Project → JavaEE → Enterprise Application → Project Name: **Statefull** → Finish

Right Click on **Statefull-ejb** → New → Session Bean



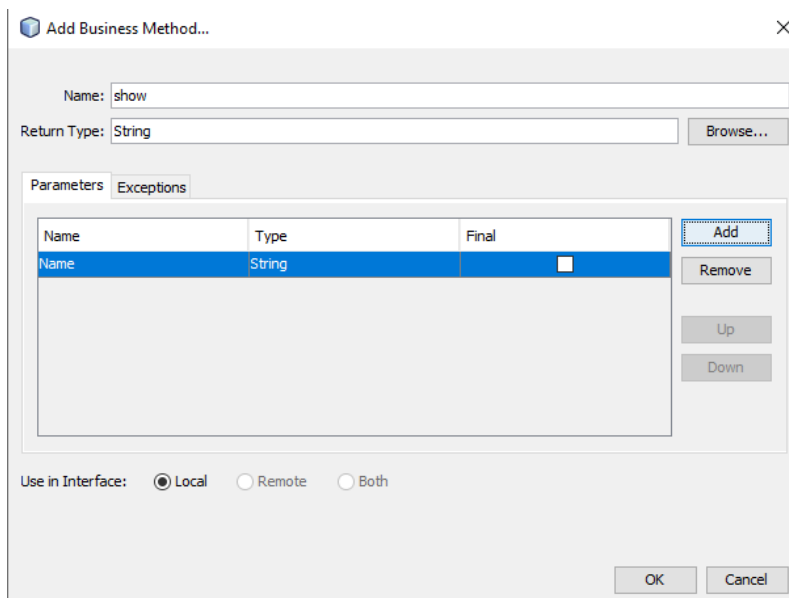
The 'New Session Bean' dialog box is shown. It has a 'Steps' section on the left with two steps: '1. Choose File Type' and '2. Name and Location'. The 'Name and Location' section is active. It contains the following fields and options:

- EJB Name:** NewSessionBean
- Project:** Statefull-ejb
- Location:** Source Packages
- Package:** statefull
- Session Type:**
 - ☐ Stateless
 - ☒ Stateful
 - ☐ Singleton
- Create Interface:**
 - ☒ Local
 - ☐ Remote

At the bottom, there are buttons: '< Back', 'Next >', 'Finish', 'Cancel', and 'Help'.

NewSessionBean.java

Right Click on blank area in Class **NewSessionBean** → Insert Code → Add Business Method



The 'Add Business Method' dialog box is shown. It has the following fields and options:

- Name:** show
- Return Type:** String
- Parameters:** A table with columns 'Name', 'Type', and 'Final'. It contains one row: 'Name', 'String', and a checkbox.
- Exceptions:** (Empty)
- Use in Interface:**
 - ☒ Local
 - ☐ Remote
 - ☐ Both

At the bottom, there are buttons: 'OK' and 'Cancel'.

Code:

```
package statefull;

import javax.ejb.Stateful;

/**
 *
 * @author TechnoBoy
 */
@Stateful
public class NewSessionBean implements NewSessionBeanLocal {

    @Override
    public String show(String Name) {
        return Name;
    }
}
```

Right Click on Statefull-war → New → Servlet → Class Name : showData → Package : statefull

showData.java

```
package statefull;

import java.io.IOException;
import java.io.PrintWriter;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.naming.Context;
import javax.naming.InitialContext;
import javax.naming.NamingException;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

/**
 *
 * @author TechnoBoy
 */
public class showData extends HttpServlet {

    NewSessionBeanLocal newSessionBean = lookupNewSessionBeanLocal();

    protected void processRequest(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        try (PrintWriter out = response.getWriter()) {
            /* TODO output your page here. You may use following sample code. */
            out.println("<!DOCTYPE html>");
            out.println("<html>");
            out.println("<head>");
            out.println("<title>Servlet showData</title>");
            out.println("</head>");
        }
    }
}
```

```

        out.println("<body>");
        String Name=request.getParameter("name");
        out.println("Welcome to Statefull Session Bean,"+newSessionBean.show(Name));
        out.println("</body>");
        out.println("</html>");
    }
}

@Override
protected void doGet(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    processRequest(request, response);
}

@Override
protected void doPost(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    processRequest(request, response);
}

@Override
public String getServletInfo() {
    return "Short description";
}

private NewSessionBeanLocal lookupNewSessionBeanLocal() {
    try {
        Context c = new InitialContext();
        return (NewSessionBeanLocal) c.lookup("java:global/Statefull/Statefull-
ejb/NewSessionBean!statefull.NewSessionBeanLocal");
    } catch (NamingException ne) {
        Logger.getLogger(getClass().getName()).log(Level.SEVERE, "exception caught", ne);
        throw new RuntimeException(ne);
    }
}
}

```

Right Click on **Statefull-war** → New → JSP → FileName: newjsp

Newjsp.jsp

```

<%--
    Document   : newjsp
    Created on : 20 Oct, 2019, 1:57:16 AM
    Author    : TechnoBoy
--%>

<% @page contentType="text/html" pageEncoding="UTF-8"% >
<!DOCTYPE html>
<html>
<head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>Statefull Session Bean</title>
</head>
<body>
    <h1>Statefull Session Bean</h1>
    <form method="post" action="showData ">

```

```
Enter your Name : <input type="text" name="name">
<input type="submit" value="Show">
</form>
</body>
</html>
```

Output:

Right Click on Statefull(Enterprise Appliation Project) → Clean and Build → Deploy → Run

