

Servlet Code

Add Student Servlet

```
package com.academy;

import java.io.IOException;
import java.io.PrintWriter;

import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.transaction.Transaction;

import org.hibernate.SessionFactory;

import com.mysql.cj.Session;

/**
 * Servlet implementation class addstudent
 */
@WebServlet("/addstudent")
public class addstudent extends HttpServlet {
    private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
     */
    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
        String sname=request.getParameter("sname");
        String sub=request.getParameter("sub");

        Student st=new Student();
        st.setSname(sname);
        st.setSub(sub);

        SessionFactory sf=hibernateutil.buildSessionFactory();
        org.hibernate.Session session=sf.openSession();
        org.hibernate.Transaction tx=session.beginTransaction();
        session.save(st);
        tx.commit();
        PrintWriter out=response.getWriter();
        out.append("Student Saved Successfully");
        session.close();
    }
}
```

```
    }  
}
```

Add Teacher Servlet

```
package com.academy;  
  
import java.io.IOException;  
import java.io.PrintWriter;  
  
import javax.servlet.ServletException;  
import javax.servlet.annotation.WebServlet;  
import javax.servlet.http.HttpServlet;  
import javax.servlet.http.HttpServletRequest;  
import javax.servlet.http.HttpServletResponse;  
  
import org.hibernate.SessionFactory;  
  
/**  
 * Servlet implementation class addteacher  
 */  
@WebServlet("/addteacher")  
public class addteacher extends HttpServlet {  
    private static final long serialVersionUID = 1L;  
  
    /**  
     * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)  
     */  
    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws  
ServletException, IOException {  
  
        String tname=request.getParameter("tname");  
        String subj=request.getParameter("sub");  
  
        Teacher te=new Teacher();  
        te.setTname(tname);  
        te.setSubj(subj);  
  
        SessionFactory sf=hibernateutil.buildSessionFactory();  
        org.hibernate.Session session=sf.openSession();  
        org.hibernate.Transaction tx=session.beginTransaction();  
        session.save(te);  
        tx.commit();  
        PrintWriter out=response.getWriter();  
    }  
}
```

```

        out.append("Teacher Saved Successfully");
        session.close();
    }
}

```

Assign Teacher to class/Assign Student to class/Subject Servlet

```

package com.academy;

import java.io.IOException;
import java.io.PrintWriter;
import java.util.ArrayList;
import java.util.List;

import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

import org.hibernate.SessionFactory;

/**
 * Servlet implementation class Assignclass
 */
@WebServlet("/assignclass")
public class Assignclass extends HttpServlet {
    private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
     */
    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
        // TODO Auto-generated method stub
        response.getWriter().append("Served at: ").append(request.getContextPath());
    }

    /**
     * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
     */
    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
        // TODO Auto-generated method stub

```

```

        String teacher=request.getParameter("teacher");
        String cla=request.getParameter("cla");
        String student=request.getParameter("student");
        String subject=request.getParameter("subject");

        Assignment as=new Assignment();

        as.setCname(cla);
        as.setStud(student);
        as.setSubject(subject);
        as.setTeacher(teacher);

        SessionFactory sf=hibernateutil.buildSessionFactory();
        org.hibernate.Session session=sf.openSession();
        org.hibernate.Transaction tx=session.beginTransaction();
        session.save(as);

        tx.commit();
        PrintWriter out=response.getWriter();
        out.append("Classes Assigned Successfully");
        session.close();
    }
}

```

Student Master view

```

package com.academy;

import java.io.IOException;
import java.io.PrintWriter;
import java.util.List;

import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

import org.hibernate.Session;
import org.hibernate.SessionFactory;

/**
 * Servlet implementation class sview
 */

```

```

@WebServlet("/viewstudent")
public class sview extends HttpServlet {
    private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
     */
    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {

        PrintWriter out=response.getWriter();
        SessionFactory sf=hibernateutil.buildSessionFactory();
        Session session=sf.openSession();
        List<Student> students=session.createQuery(" from Student").list();

        out.print("<h1> Student Master List</h1>");
        out.print("<style>table,td,th {border:2px solid red; padding: 10px;}</style>");
        out.print("<table>");
        out.print("<tr>");
        out.print("<th>Student Id</th>");
        out.print("<th>Student Name</th>");
        out.print("<th>Subject</th>");
        out.print("</tr>");
        if(students!=null) {
            for(Student s : students)
            {
                out.print("<tr>");
                out.print("<td>"+s.getSid()+"</td>");
                out.print("<td>"+s.getSname()+"</td>");
                out.print("<td>"+s.getSub()+"</td>");
                out.print("</tr>");
            }
        }
        out.print("</table>");
        session.close();
    }

}

```

Teacher Master View

```

package com.academy;

import java.io.IOException;

```

```

import java.io.PrintWriter;
import java.util.List;

import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

import org.hibernate.Session;
import org.hibernate.SessionFactory;

/**
 * Servlet implementation class tview
 */
@WebServlet("/viewteacher")
public class tview extends HttpServlet {
    private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#doGet\(HttpServletRequest request, HttpServletResponse response\)
     */
    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {

        PrintWriter out=response.getWriter();
        SessionFactory sf=hibernateutil.buildSessionFactory();
        Session session=sf.openSession();
        List<Teacher> teachers=session.createQuery(" from Teacher").list();

        out.print("<h1> Teacher Master List</h1>");
        out.print("<style>table,td,th {border:2px solid red; padding: 10px;}</style>");
        out.print("<table>");
        out.print("<tr>");
        out.print("<th>Teacher Id</th>");
        out.print("<th>Teacher Name</th>");
        out.print("<th>Subject</th>");
        out.print("</tr>");
        if(teachers!=null) {
            for(Teacher t : teachers)
            {
                out.print("<tr>");
                out.print("<td>"+t.getTid()+"</td>");
                out.print("<td>"+t.getTname()+"</td>");
                out.print("<td>"+t.getSubj()+"</td>");
                out.print("</tr>");
            }
        }
    }
}

```

```

    }
    out.print("</table>");
    session.close();
}
}

```

Class Master View

```
package com.academy;
```

```
import java.io.IOException;
import java.io.PrintWriter;
import java.util.List;
```

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

```
import org.hibernate.Session;
import org.hibernate.SessionFactory;
```

```
/**
 * Servlet implementation class tview
 */
```

```
@WebServlet("/viewteacher")
```

```
public class tview extends HttpServlet {
    private static final long serialVersionUID = 1L;
```

```
/**
 * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
 */
protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
```

```
    PrintWriter out=response.getWriter();
    SessionFactory sf=hibernateutil.buildSessionFactory();
    Session session=sf.openSession();
    List<Teacher> teachers=session.createQuery(" from Teacher").list();
```

```
    out.print("<h1> Teacher Master List</h1>");
    out.print("<style>table,td,th {border:2px solid red; padding: 10px;}</style>");
    out.print("<table>");
```

```
out.print("<tr>");
out.print("<th>Teacher Id</th>");
out.print("<th>Teacher Name</th>");
out.print("<th>Subject</th>");
out.print("</tr>");
if(teachers!=null) {
    for(Teacher t : teachers)
    {
        out.print("<tr>");
        out.print("<td>" + t.getTid() + "</td>");
        out.print("<td>" + t.getTname() + "</td>");
        out.print("<td>" + t.getSubj() + "</td>");
        out.print("</tr>");
    }
}
out.print("</table>");
session.close();
}
}
```