

index.html

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<meta charset="ISO-8859-1">
```

```
<title>Insert title here</title>
```

```
</head>
```

```
<body>
```

```
<h1>JDBC CRUD Operations</h1>
```

```
<a href="list">Fetch List</a>
```

```
<hr>
```

```
<form action="save" method="post">
```

```
Name: <input type="text" name="name" placeholder="Enter Your Name"><br>
```

```
Email: <input type="text" name="email" placeholder="Enter Your Email"><br>
```

```
Username: <input type="text" name="username" placeholder="Enter Your Username"><br>
```

```
<input type="submit" value="SAVE"><br>
```

```
</form>
```

```
<form action="delete" method="post">
```

```
Name: <input type="number" name="id" placeholder="Enter the id to be deleted"><br>
```

```
<input type="submit" value="Delete"><br>
```

```
</form>
```

```
</body>
```

```
</html>
```

DBConfig.java :

```
package com.simplilearn.demo;

import java.sql.Connection;

import java.sql.DriverManager;

public class DBConfig {

    static Connection getConnection() {

        String driver="com.mysql.cj.jdbc.Driver";

        String url="jdbc:mysql://localhost:3306/cisco";

        String username="root";

        String password="Siri@171";

        Connection conn=null;

        try {

            Class.forName(driver);

            conn= DriverManager.getConnection(url,username,password);

            if(conn!=null)

                return conn;

            else

                return null;

        } catch (Exception e) {

            // TODO: handle exception

        }

        return conn;

    }

}
```

DeleteServlet.java

```
package com.simplilearn.demo;

import java.io.IOException;

import java.io.PrintWriter;

import java.sql.Connection;

import java.sql.PreparedStatement;

import java.sql.SQLException;

import jakarta.servlet.ServletException;

import jakarta.servlet.annotation.WebServlet;

import jakarta.servlet.http.HttpServlet;

import jakarta.servlet.http.HttpServletRequest;

import jakarta.servlet.http.HttpServletResponse;

@WebServlet("/delete")

public class DeleteServlet extends HttpServlet {

    @Override

    protected void doGet(HttpServletRequest req, HttpServletResponse resp) throws ServletException,

    IOException {

        // TODO Auto-generated method stub

        PrintWriter out=resp.getWriter();

        String id=req.getParameter("id");

        Connection conn= DBConfig.getConnection();

        if(conn!=null) {

            try {

                PreparedStatement stmt=conn.prepareStatement("delete from student where id=?");

                stmt.setString(1, id);

                int x=stmt.executeUpdate();
```

```

if(x>0) {

out.println("Record deleted successfully");

resp.sendRedirect("list");

}

else {

out.println("Error while inserting record");

}

} catch (SQLException e) {

// TODO Auto-generated catch block

e.printStackTrace();

System.out.println(e);

}finally {

try {

conn.close();

} catch (SQLException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

}

}else {

out.println("Error while connecting");

}

}

@Override

protected void doPost(HttpServletRequest req, HttpServletResponse resp) throws ServletException,
IOException {

// TODO Auto-generated method stub

doGet(req, resp);

```

```
}  
  
}
```

FetchServlet.java

```
package com.simplilearn.demo;  
  
import java.io.IOException;  
  
import java.io.PrintWriter;  
  
import java.sql.Connection;  
  
import java.sql.ResultSet;  
  
import java.sql.SQLException;  
  
import java.sql.Statement;  
  
import jakarta.servlet.ServletException;  
  
import jakarta.servlet.annotation.WebServlet;  
  
import jakarta.servlet.http.HttpServlet;  
  
import jakarta.servlet.http.HttpServletRequest;  
  
import jakarta.servlet.http.HttpServletResponse;  
  
@WebServlet("/list")  
  
public class FetchServlet extends HttpServlet {  
  
    @Override  
  
    protected void doGet(HttpServletRequest req, HttpServletResponse resp) throws ServletException,  
        IOException {  
  
        // TODO Auto-generated method stub  
  
        PrintWriter out=resp.getWriter();  
  
        out.println("List of Students Available");  
  
        Connection conn=DBConfig.getConnection();  
  
        if(conn!=null) {  
  
            out.println("Connection Established");  

```

```

Statement stmt;

try {

stmt=conn.createStatement();

ResultSet rs=stmt.executeQuery("select * from student");

resp.setContentType("text/html");

out.println("<table border=1 cellpadding=10 cellspacing=0><thead><tr>");

out.print("<th>ID</th><th>NAME</th><th>EMAIL</th><th>USERNAME</th>");

out.print("</tr></thead>");

out.print("<tbody>");

while(rs.next()) {

out.print("<tr>");

out.print("<td>"+rs.getInt(1)+"</td><td>"+rs.getString(2)+"</td><td>"+rs.getString(3)+"</td>"+rs.getString(4)+"</td>");

out.print("</tr>");

//out.println("Id: "+rs.getInt(1)+", Name: "+rs.getString(2)+", Email: "+rs.getString(3)+", Username: "+rs.getString(4));

}

out.print("</tbody></table>");

} catch (SQLException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}finally {

try {

conn.close();

} catch (SQLException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

}

```

```
}else {  
  
out.println("Error While Connecting");  
  
}  
  
}  
  
@Override  
  
protected void doPost(HttpServletRequest req, HttpServletResponse resp) throws ServletException,  
IOException {  
  
// TODO Auto-generated method stub  
  
doGet(req, resp);  
  
}  
  
}
```

SaveServlet.java

```
package com.simplilearn.demo;  
  
import java.io.IOException;  
  
import java.io.PrintWriter;  
  
import java.sql.Connection;  
  
import java.sql.PreparedStatement;  
  
import java.sql.SQLException;  
  
import jakarta.servlet.ServletException;  
  
import jakarta.servlet.annotation.WebServlet;  
  
import jakarta.servlet.http.HttpServlet;  
  
import jakarta.servlet.http.HttpServletRequest;  
  
import jakarta.servlet.http.HttpServletResponse;  
  
@WebServlet("/save")  
  
public class SaveServlet extends HttpServlet{  
  
@Override
```

protected void doGet(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException {

// TODO Auto-generated method stub

PrintWriter out=resp.getWriter();

String name=req.getParameter("name");

String email=req.getParameter("email");

String username=req.getParameter("username");

Connection conn= DBConfig.getConnection();

if(conn!=null) {

try {

PreparedStatement stmt=conn.prepareStatement("insert into student (name,email,username) value(?,?,?)");

stmt.setString(1, name);

stmt.setString(2, email);

stmt.setString(3, username);

int x=stmt.executeUpdate();

if(x>0) {

out.println("Record inserted successfully");

resp.sendRedirect("list");

}

else {

out.println("Error while inserting record");

}

} catch (SQLException e) {

// TODO Auto-generated catch block

e.printStackTrace();

System.out.println(e);

}finally {

try {


```
conn.close();

} catch (SQLException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

}

}else {

out.println("Error while connecting");

}

}

@Override
```