Index.html

<!DOCTYPE **html**>  
<**html**>  
<**head**>  
 <**title**>Form</**title**>  
</**head**>  
<**body**>  
<**h1**>create your account</**h1**>  
<**form action="/Servlet" method="post"**>  
 <**label for="fname"**>FIRST NAME</**label**>  
 <**input type="text" id="fname" name="fname"**><**br**><**br**>  
 <**label for="lname"**>lastname </**label**>  
 <**input type="text" id="lname" name="lname"**><**br**><**br**>  
 <**label for="phoneno"**>Enter UserName</**label**>  
 <**input type="number" id="phoneno" name="phoneno"**><**br**><**br**>  
 <**label for="Email"**>Enter email </**label**>  
 <**input type="text" id="Email" name="Email"**><**br**><**br**>  
 <**label for="Address1"**>Enter Address1 </**label**>  
 <**input type="text" id="Address1" name="Address1"**><**br**><**br**>  
 <**label for="Address2"**>Enter Address2 </**label**>  
 <**input type="text" id="Address2" name="Address2"**><**br**><**br**>  
 <**label for="city"**>Enter city </**label**>  
 <**input type="text" id="city" name="city"**><**br**><**br**>  
  
 <**label for="state"**>Enter state </**label**>  
 <**input type="text" id="state" name="state"**><**br**><**br**>  
 <**label for="zipcode"**>Enter zipcode </**label**>  
 <**input type="text" id="zipcode" name="zipcode"**><**br**><**br**>  
 <**input type="button" value="Clear Form"**>  
 <**input type="button" value="Create Account"**>  
</**form**>  
</**body**>  
</**html**>

Servlet

**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** java.io.IOException;  
  
@WebServlet(name = **"Servlet"**)  
**public class** Servlet **extends** HttpServlet {  
 **protected void** doPost(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {  
 DBconnection db= **new** DBconnection();  
 String fname= request.getParameter(**"fname"**);  
 String lname= request.getParameter(**"lname"**);  
 String phoneno= request.getParameter(**"phoneno"**);  
 String Email= request.getParameter(**"Email"**);  
 String Address1= request.getParameter(**"Address1"**);  
 String Address2= request.getParameter(**"Address2"**);  
 String city= request.getParameter(**"city"**);  
 String state= request.getParameter(**"state"**);  
 String zipcode= request.getParameter(**"zipcode"**);  
  
  
 db.insertRecord(fname,lname,phoneno,Email,Address1,Address2,city,state,zipcode);  
  
 }  
  
 **protected void** doGet(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {  
  
 }  
}

FormFilter

**import** javax.servlet.\*;  
**import** javax.servlet.annotation.WebFilter;  
**import** java.io.IOException;  
  
@WebFilter(filterName = **"FormFilter"**)  
**public class** FormFilter **implements** Filter {  
 **public void** destroy() {  
 }  
  
 **public void** doFilter(ServletRequest request, ServletResponse response, FilterChain chain) **throws** ServletException, IOException {  
 String firstname = request.getParameter(**"firstname"**);  
 String lastname = request.getParameter(**"lastname"**);  
 String email = request.getParameter(**"email"**);  
 String phoneno = request.getParameter(**"phoneno"**);  
 String Address1 = request.getParameter(**"Address1"**);  
 String city = request.getParameter(**"city"**);  
 String state = request.getParameter(**"state"**);  
 String zipcode = request.getParameter(**"zipcode"**);  
  
 **boolean** valid = EmailValidator.getInstance().isValid(email);  
  
 **if** (firstname == **null** || **""**.equals(firstname)  
 || email == **null** || **""**.equals(email) || lastname==**null** || **""**.equals(lastname)  
 || Address1==**null** || **""**.equals(Address1)  
 || city==**null** || **""**.equals(city)  
 || state==**null** || **""**.equals(state)  
 || zipcode==**null** || **""**.equals(zipcode)) {  
  
 request.setAttribute(**"errMsg"**, **" fields are empty"**);  
  
  
 }  
 **else if** (!valid) {  
  
 request.setAttribute(**"errMsg"**, **"Email format not valid"**);  
  
 }  
 **else** {  
  
 chain.doFilter(request, response);  
 }  
  
 }  
  
 **public void** init(FilterConfig config) **throws** ServletException {  
  
 }  
  
}

DbConnection

**import** java.sql.\*;  
  
**public class** DBconnection {  
 **private** String **dbURL** = **"jdbc:mysql://localhost:3306/servlets"**;  
 **private** String **username** = **"root"**;  
 **private** String **password** = **""**;  
 **private** Connection **connection**;  
 **public void** DbConnection(){  
 **try** {  
 Class.*forName*(**"com.mysql.jdbc.Driver"**);  
 **connection** = DriverManager.*getConnection*(**dbURL**,**username**,**password**);  
 **if**(**connection**!=**null**){  
 System.***out***.println(**"Success"**);  
 }  
 }**catch** (ClassNotFoundException e){  
 e.printStackTrace();  
 } **catch** (SQLException e) {  
 e.printStackTrace();  
 }  
 }  
 **public void** insertRecord(String fname, String firstName, String lastName, String email, String Address1, String Address2, String city, String state, String zipcode){  
 **try** {  
 String sqlQuery = **"INSERT INTO student(firstname,lastname,phoneno,email,Address1,Address2,city,state,zipcode) VALUES(?,?,?,?,?,?,?,?)"**;  
 PreparedStatement preparedStatement = **connection**.prepareStatement(sqlQuery);  
 preparedStatement.setString(1, firstName);  
 preparedStatement.setString(2, lastName);  
 preparedStatement.setString(3, email);  
 preparedStatement.setString(4, Address1);  
 preparedStatement.setString(5, Address2);  
 preparedStatement.setString(6, city);  
 preparedStatement.setString(7, state);  
 preparedStatement.setString(8, zipcode);  
 **int** noOfRowsInserted = preparedStatement.executeUpdate();  
 **if**(noOfRowsInserted>0){  
 System.***out***.println(noOfRowsInserted + **" rows inserted!"**);  
 }  
 } **catch** (SQLException e) {  
 e.printStackTrace();  
 }  
 }  
}

WEB.xml

*<?***xml version="1.0" encoding="UTF-8"***?>*<**web-app xmlns="http://xmlns.jcp.org/xml/ns/javaee"  
 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
 xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee http://xmlns.jcp.org/xml/ns/javaee/web-app\_4\_0.xsd"  
 version="4.0"**>  
 <**welcome-file-list**>  
 <**welcome-file**>index.html</**welcome-file**>  
 </**welcome-file-list**>  
 <**servlet**>  
 <**servlet-name**>Servlet</**servlet-name**>  
 <**servlet-class**>Servlet</**servlet-class**>  
 </**servlet**>  
  
 <**servlet-mapping**>  
 <**servlet-name**>Servlet</**servlet-name**>  
 <**url-pattern**>/Servlet</**url-pattern**>  
 </**servlet-mapping**>  
 <**filter**>  
 <**filter-name**>FormFilter</**filter-name**>  
 <**filter-class**>FormFilter</**filter-class**>  
 </**filter**>  
 <**filter-mapping**>  
 <**filter-name**>FormFilter</**filter-name**>  
 <**url-pattern**>/Servlet</**url-pattern**>  
 </**filter-mapping**>  
  
</**web-app**>