# **Assignment 2: Email Service**

# Program Code:

```
web.xml
<web-app>
 <servlet>
  <servlet-name>LoginServlet</servlet-name>
  <servlet-class>LoginServlet</servlet-class>
 </servlet>
 <servlet>
  <servlet-name>RegisterServlet</servlet-name>
  <servlet-class>RegisterServlet</servlet-class>
 </servlet>
 <servlet>
  <servlet-name>InboxServlet</servlet-name>
  <servlet-class>InboxServlet</servlet-class>
 </servlet>
 <servlet>
  <servlet-name>ComposeServlet</servlet-name>
  <servlet-class>ComposeServlet</servlet-class>
 </servlet>
 <servlet>
  <servlet-name>LogoutServlet</servlet-name>
  <servlet-class>LogoutServlet</servlet-class>
 </servlet>
<servlet>
  <servlet-name>ContactServlet</servlet-name>
  <servlet-class>ContactServlet</servlet-class>
 </servlet>
 <servlet-mapping>
  <servlet-name>LoginServlet</servlet-name>
  <url-pattern>/LoginServlet</url-pattern>
 </servlet-mapping>
 <servlet-mapping>
  <servlet-name>RegisterServlet</servlet-name>
  <url-pattern>/RegisterServlet</url-pattern>
 </servlet-mapping>
 <servlet-mapping>
  <servlet-name>InboxServlet</servlet-name>
  <url-pattern>/InboxServlet</url-pattern>
 </servlet-mapping>
 <servlet-mapping>
  <servlet-name>ComposeServlet</servlet-name>
```

<url-pattern>/ComposeServlet</url-pattern>

</servlet-mapping>

```
<servlet-mapping>
  <servlet-name>LogoutServlet</servlet-name>
  <url-pattern>/LogoutServlet</url-pattern>
 </servlet-mapping>
 <servlet-mapping>
  <servlet-name>ContactServlet/servlet-name>
  <url-pattern>/ContactServlet</url-pattern>
 </servlet-mapping>
 <welcome-file-list>
  <welcome-file>index.jsp</welcome-file>
 </welcome-file-list>
</web-app>
header.jsp
<!DOCTYPE html>
<html>
<head>
     <meta charset="utf-8">
     <link rel="shortcut icon" href="images/logo-2.png">
     <title>Mail Service</title>
     <meta name="viewport" content="width=device-width, intial-
scale=1">
     <link rel="stylesheet" type="text/css" href="css/style.css">
</head>
<body>
<header>
<div class="container">
     <div id="logo">
          <imq src="images/logo-2.png" height="72px"
width='70px'><h1>MAIL SERVICE</h1>
     </div>
     <%
     if(session.getAttribute("username")!=null)
          String username=(String)session.getAttribute("username");
     %>
     <nav>
          <a href="index.jsp">HOME</a>
               <a href="compose.jsp">COMPOSE</a>
               <a href="inbox.jsp">INBOX</a>
               <a href="feedback.jsp">FEED BACK</a>
               <a href="LogoutServlet">LOGOUT</a>
          <%
     out.print("<br><font style='color:white;float:right'>Welcome
"+username+"</font>");
```

```
else
     {%>
     </nav>
     <nav>
           <a href="index.jsp">HOME</a>
                <a href="login.jsp">LOGIN</a>
                <a href="register.jsp">SIGN IN</a>
                <a href="feedback.jsp">FEED BACK</a>
           </nav>
     <% } %>
</div>
</header>
index.jsp
<jsp:include page="header.jsp">
</isp:include>
<section id="showcase">
     <div class="container">
           <h1>Welcome to Mail Service!</h1>
           Hi! This is <strong>Mail Services</strong>, a free
service for Mailing system. You can perform all email operation, Currently
it stores the information in database it's free of cost.Let's try it..
     </div>
</section>
<jsp:include page="footer.jsp"></jsp:include>
footer.jsp
<footer>
     Mail Service, Copyright © 2020
</footer>
</body>
</html>
login.jsp
<jsp:include page="header.jsp"></jsp:include>
<section id="login">
     <div class="container">
     <% if(request.getAttribute("Error")!=null)
          String Error=(String)request.getAttribute("Error");
          out.print("<font style='color:red'>"+Error+"</font>");
     if(request.getAttribute("Error1")!=null)
          System.out.print(request.getAttribute("Error1"));
          String Error1=(String)request.getAttribute("Error1");
           out.print("<font style='color:red'>"+Error1+"</font>");
     }
```

```
if(request.getAttribute("register")!=null)
           System.out.print(request.getAttribute("register"));
           String register=(String)request.getAttribute("register");
           out.print("<font style='color:navy'>"+register+"</font>");
     if(request.getAttribute("logout")!=null)
           System.out.print(request.getAttribute("logout"));
           String logout=(String)request.getAttribute("logout");
           out.print("<font style='color:navy'>"+logout+"</font>");
     .
%>
     <h1><span class="highlight">LOG</span> IN</h1>
     <form action="LoginServlet" method="POST">
     <input type="email" name="email" placeholder="Enter Email"
required="Username is required"><br><br>
     <input type="password" name="password" placeholder="Enter
password" pattern="(?=.*\d)(?=.*[a-z])(?=.*[A-Z]).\{8,\}" title="Must
<button type="submit" class="button1" name="Submit">Login
</button>
     <button type="reset" class="button1" name="reset">Clear
</button>
     </form>
     </div>
</section>
<isp:include page="footer.jsp"></jsp:include>
LoginServlet.java
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
import java.sql.*;
public class LoginServlet extends HttpServlet
{
     public void doPost(HttpServletRequest request,
HttpServletResponse response)throws ServletException, IOException
           response.setContentType("text/html");
           PrintWriter out=response.getWriter();
           String uname=request.getParameter("email");
           String password=request.getParameter("password");
           boolean status=false;
           try {
                Class.forName("com.mysql.jdbc.Driver");
```

```
Connection
con=DriverManager.getConnection("jdbc:mysgl://localhost:3306/mailsyst
em","root","");
                 System.out.println("Success");
                 Statement stmt=con.createStatement();
                 ResultSet rs=stmt.executeQuery("select * from user
where email=""+uname+" and password=""+password+"");
                 status=rs.next();
                 System.out.println(status);
           }
           catch (ClassNotFoundException e)
                 e.printStackTrace();
           catch (SQLException e)
                 System.out.println("Exception in GetConnection");
           if(status==true)
                 HttpSession session=request.getSession();
                 session.setAttribute("username",uname);
                 out.print("Welcome
                                      " + uname);
                 RequestDispatcher
rd=request.getRequestDispatcher("index.jsp");
                 rd.include(request, response);
           }
           else
                 String Error="Incorrect!, Please check your Email and
Password";
                 request.setAttribute("Error", Error);
                 RequestDispatcher rd=request.getRequestDispatcher
("login.jsp");
                 rd.include(request, response);
           out.close();
register.jsp
<jsp:include page="header.jsp"></jsp:include>
<section id="login">
      <div class="container">
     if(request.getAttribute("registererror")!=null)
      {
           String msg=(String)request.getAttribute("registererror");
```

```
out.print("<font style='color:red'>"+msg);
           out.print("</font><br/>");
     %>
     <h1><span class="highlight">SIGN</span> IN</h1>
     <form action="RegisterServlet" method="POST">
     <input type="text" name="name" placeholder="Enter Name">
     <br><br><
     <input type="text" name="email" placeholder="Enter Email">
     <br><br><
     <input type="password" name="password" placeholder="Enter
     Password"><br><br>
     <input type="text" name="mbno" placeholder="Enter Contact
     No."><br><br>
     <input type="text" name="country" placeholder="Enter Country">
     <br><br><
     Male<input type="radio" name="gender" value="male">
     Female<input type="radio" name="gender" value="female"/>
     <br><br><
     <button type="submit" class="button1" name="submit">SignIn
     </button>
     <button type="reset" class="button1"</pre>
     name="reset">Clear</button>
     </form>
</div>
</section>
<jsp:include page="footer.jsp"></jsp:include>
RegisterServlet.java
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
import java.sql.*;
public class RegisterServlet extends HttpServlet
{
     public void doPost(HttpServletRequest request,
HttpServletResponse response)throws ServletException, IOException
     {
           response.setContentType("text/html");
           PrintWriter out=response.getWriter();
           String email=request.getParameter("email");
           String password=request.getParameter("password");
           String name=request.getParameter("name");
           String gender=request.getParameter("gender");
           String num=request.getParameter("mbno");
           long mname=Long.parseLong(num);
           String country=request.getParameter("country");
           int status=0;
```

```
try {
                 Class.forName("com.mysql.jdbc.Driver");
                 Connection con=DriverManager.getConnection
("jdbc:mysql://localhost:3306/mailsystem","root","");
           String qry="Insert into user values('"+email+"','"+password
     +"','"+name+"','"+gender+"',"+mname+",'"+country+"')";
                 System.out.println(gry);
                 Statement stmt=con.createStatement();
                 status=stmt.executeUpdate(qry);
                 System.out.println("Status = "+status);
           catch (ClassNotFoundException e)
                 e.printStackTrace();
           catch (SQLException e)
                 System.out.println("Exception in GetCon");
           if(status>0)
                 String register= "You are Successfully registered";
                 request.setAttribute("register",register);
                 RequestDispatcher rd=request.getRequestDispatcher
     ("login.jsp");
                 rd.include(request, response);
           }
           else
           {
                 String registererror="Sorry, Registration failed. Please
     try later";
                 request.setAttribute("registererror",registererror);
                 RequestDispatcher rd=request.getRequestDispatcher
     ("register.jsp");
                 rd.include(request, response);
           out.close();
      }
}
compose.jsp
<jsp:include page="header.jsp"></jsp:include>
<section id="login">
      <div class="container">
     if(request.getAttribute("compose")!=null)
     {
           String compose= (String)request.getAttribute("compose");
```

```
out.print("<font style='color:navy'>"+compose+"</font>");
     if(request.getAttribute("composeerr")!=null)
           String composeerr= (String)request.getAttribute
("composeerr");
           out.print("<font style='color:navy'>"+composeerr+
"</font>");
%>
<h1><span class="highlight">COMPOSE</span> MAIL</h1>
<form action="ComposeServlet" method="POST">
<label>To:</label><br>
<input type="email" name="reciever_id" placeholder="Enter Name"
required="" minlength="4"><br><br>
<label>Message:</label><br>
<textarea name="message" cols="43" rows="10" style="padding: 17px;"
placeholder="Message..." required=""></textarea><br><br>
<button type="submit" class="button1" name="submit">Submit
</button>
<button type="reset" class="button1" name="reset">Clear</button>
</form>
</div>
</section>
<jsp:include page="footer.jsp"></jsp:include>
ComposeServlet.java
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
import java.util.Calendar;
import java.sql.*;
public class ComposeServlet extends HttpServlet
     static int status=0;
     public void doPost(HttpServletRequest request,
HttpServletResponse response)throws ServletException, IOException
     {
           response.setContentType("text/html");
           PrintWriter out=response.getWriter();
           HttpSession session=request.getSession(false);
           String sender=(String)session.getAttribute("username");
           String reciever=request.getParameter("reciever id");
           String msg=request.getParameter("message");
           try
           {
                Class.forName("com.mysql.jdbc.Driver");
```

```
Connection con=DriverManager.getConnection
("jdbc:mysql://localhost:3306/mailsystem","root","");
                 java.util.Date sqdate=Calendar.getInstance().
getTime();
                 java.sql.Date date = new java.sql.Date
(sqdate.getTime());
                 PreparedStatement ps=con.prepareStatement("Insert
into inbox values(null,?,?,?,?)");
                 ps.setString(2,reciever);
                 ps.setString(1,sender);
                 ps.setString(3,msq);
                 ps.setDate(4,date);
                 status=ps.executeUpdate();
                 System.out.println(status);
           catch (SQLException e)
                 e.printStackTrace();
           catch (ClassNotFoundException e)
                 e.printStackTrace();
           if(status>0)
                 out.print("Message Sucessfully Sent");
                 RequestDispatcher rd=request.getRequestDispatcher
("index.jsp");
                 rd.include(request, response);
           }
           else
           {
                 out.print("Sorry, Message was not sent");
                 RequestDispatcher rd=request.getRequestDispatcher
("compose.jsp");
                 rd.include(request, response);
           }
inbox.jsp
< @page import="java.sql.*" %>
<jsp:include page="header.jsp"></jsp:include>
<script>
var request;
function viewAll(name)
```

```
var v=name;
     var url="delete.jsp?val="+v;
     if(window.XMLHttpRequest)
           request=new XMLHttpRequest();
     else if(window.ActiveXObject)
     {
           request=new ActiveXObject("Microsoft.XMLHTTP");
     }
     try
           request.onreadystatechange=getAllInfo;
           request.open("GET",url,true);
           request.send();
     catch(e)
           alert("Unable to connect to server");
function getAllInfo()
     if(request.readyState==4)
     {
           var val=request.responseText;
           document.getElementById('bottom').innerHTML=val;
</script>
<%
     if(session.getAttribute("username")!=null)
           String username=(String)session.getAttribute("username");
           if(request.getAttribute("delete")!=null)
           {
                 String delete=(String)session.getAttribute("usernam
                 out.print("<font style='color:navy'>"+delete+"</font>"
);
           }
           try
           {
                 Class.forName("com.mysql.jdbc.Driver");
                 Connection con=DriverManager.getConnection
("jdbc:mysql://localhost:3306/mailsystem","root","");
                 PreparedStatement ps=con.prepareStatement("Select *
from inbox where reciever=?");
```

```
ps.setString(1,username);
               ResultSet rs=ps.executeQuery();
                out.print("<div id='bottom'></div>");
                out.print("<div> <table border=2 cellspacing='4'
cellpadding='5' >");
     out.print("SENDERMESSAGEDATE
OF RECIEVINGDelete");
               while(rs.next())
                {
                     int id=rs.getInt(1);
                     System.out.print(id);
                     out.print("");
                     out.print("" + rs.getString(2) + "");
                     out.print("<td>" + rs.getString(4) + "</td>");
                     out.print("<td>" + rs.getString(5) + "</td>");
                     out.print("<a href='delete.jsp?val="+
rs.getInt(1)+"'> Delete</a>");
                     out.print("");
               out.print("");
          catch (SQLException e)
               e.printStackTrace();
          }
     }
     else
     {
          request.setAttribute("Error1", "Please Do login First");
     %>
     <jsp:forward page="login.jsp"></jsp:forward>
     <%
     }
%>
<jsp:include page="footer.jsp"></jsp:include>
<u>delete.jsp</u>
<@ page language="java" import="java.util.*"%>
<%@ page import="java.sql.*" %>
<%
     String n=request.getParameter("val");
     if(n.length()>0)
     {
          try
          {
               Class.forName("com.mysql.jdbc.Driver");
```

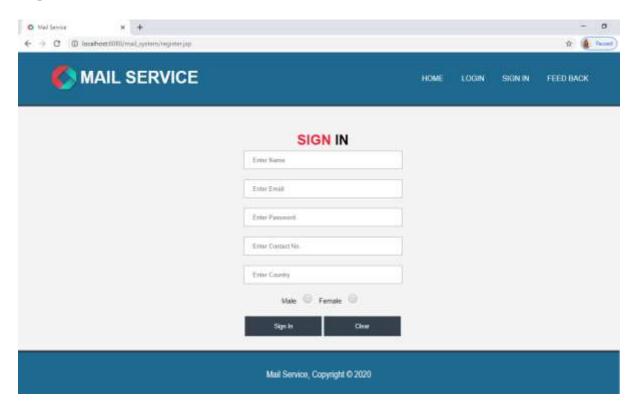
```
Connection con=DriverManager.getConnection
("jdbc:mysql://localhost:3306/mailsystem","root","");
                 PreparedStatement ps=con.prepareStatement("delete
from inbox where id = "+n+"");
                 out.print("<br>");
                 int s=ps.executeUpdate();
                 out.print("Mail has been successfully deleted");
                 con.close();
           catch(Exception e)
           {
                 e.printStackTrace();
           }
%>
<jsp:forward page="inbox.jsp"></jsp:forward>
feedback.jsp
<jsp:include page="header.jsp"></jsp:include>
<section id="login">
     <div class="container">
     <%
           if(request.getAttribute("feedbackerror")!=null)
                 String
msg=(String)request.getAttribute("feedbackerror");
                 out.print("<font style='color:red'>"+msq);
                 out.print("</font><br/>");
           if(request.getAttribute("feedback")!=null)
                 System.out.print(request.getAttribute("feedback"));
                 String
register=(String)request.getAttribute("feedback");
                 out.print("<font</pre>
style='color:navy'>"+register+"</font>");
           %>
           <h1><span class="highlight">FEED</span>
BACK</h1><br>
                 <form action="ContactServlet" method="POST">
                 <input type="text" name="nm" placeholder="Enter
Name" required="" minlength="4"><br><br>
                 <input type="email" name="email" placeholder="Enter
Email" required=""><br><br>
                 <textarea name="msg" cols="42" rows="5"
placeholder="Message..." style="padding:20px"
required=""></textarea><br><br>
```

```
<button type="submit" class="button1"
name="submit">Submit</button>
                 <button type="reset" class="button1"</pre>
name="reset">Clear</button>
           </form>
      </div>
</section>
<jsp:include page="footer.jsp"></jsp:include>
ContactServlet.java
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
import java.sql.*;
public class ContactServlet extends HttpServlet
{
     public void doPost(HttpServletRequest request,
HttpServletResponse response)throws ServletException, IOException
           response.setContentType("text/html");
           PrintWriter out=response.getWriter();
           String email=request.getParameter("email");
           String name=request.getParameter("name");
           String msg=request.getParameter("msg");
           int status=0;
           try {
                 Class.forName("com.mysql.jdbc.Driver");
                 Connection
con=DriverManager.getConnection("jdbc:mysgl://localhost:3306/mailsyst
em", "root", "");
                 String gry="Insert into feedback
values(null,'"+name+"','"+email+"','"+msg+"')";
                 System.out.println(qry);
                 Statement stmt=con.createStatement();
                 status=stmt.executeUpdate(qry);
                 System.out.println("Status = "+status);
           catch (ClassNotFoundException e)
                 e.printStackTrace();
           catch (SQLException e)
                 System.out.println("Exception in GetCon");
           }
```

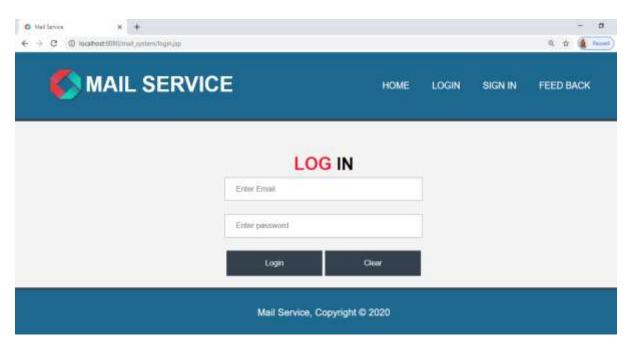
```
if(status>0)
                 String feedback= "Your feedback is Successfully saved";
                 request.setAttribute("feedback",feedback);
                 RequestDispatcher
rd=request.getRequestDispatcher("contact.jsp");
                 rd.include(request, response);
           else
           {
                 String feedbackerror="Sorry, feedback is not Saved.
Please try later";
                 request.setAttribute("feedbackerror",feedbackerror);
                 RequestDispatcher
rd=request.getRequestDispatcher("contact.jsp");
                 rd.include(request, response);
           out.close();
     }
LogoutServlet.java
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
public class LogoutServlet extends HttpServlet
{
     public void doGet(HttpServletRequest request, HttpServletResponse
response)throws ServletException, IOException
     {
           response.setContentType("text/html");
           PrintWriter out=response.getWriter();
           HttpSession session=request.getSession(false);
           session.invalidate();
           request.setAttribute("logout","You have been sucessfully
logged out");
           RequestDispatcher
rd=request.getRequestDispatcher("/login.jsp");
           rd.include(request,response);
      }
}
```

# > Screenshots:

# Sign in



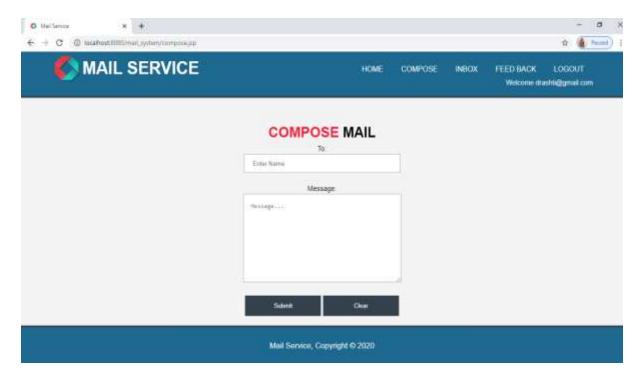
### <u>Login</u>



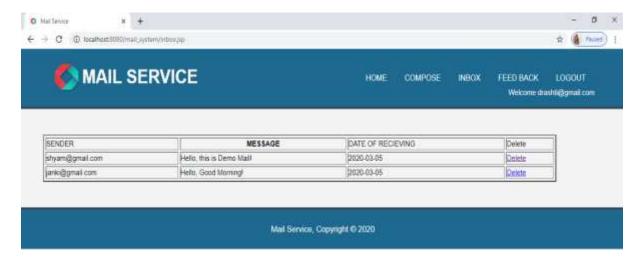
#### **Home**



### **Compose**



### **Inbox**



### **FeedBack**

