**화면설계**

**포트폴리오**

**평가자료**

**- 로그인 페이지 -**

수업명 :java,python 기반의 AI 활용 응용

소프트웨어 개발자 양성과정

제출일 : 2021. 01. 14

작성자 : 유승화

□프로젝트 개요

|  |  |  |
| --- | --- | --- |
| **구분** | **내용** | **비고** |
| **제목** | 로그인 페이지 만들기 |  |
| **프로젝트**  **작성기간** | ~2021.01.14 |  |
| **조원 구성** | 유승화 |  |
| **프로젝트 내용** | Jsp, servlet, 데이터베이스를 이용하여 회원가입, 로그인, 회원정보 수정 구현 |  |
| **주요기능** | 회원가입 |  |
| 로그인 |  |
| 회원정보 수정 |  |
| **학습내용** | 회원가입 로그인 등 폼 작성 |  |
| 데이터베이스 연동 |  |
| 조건에 따라 페이지 이동 |  |
|  |  |

□최종 보고서

|  |  |  |
| --- | --- | --- |
| **구분** | **내용** | **비고** |
| **제목** | 로그인 페이지 만들기 |  |
| **프로젝트 내용** | Jsp, servlet, 데이터베이스를 이용하여 회원가입, 로그인, 회원정보 수정 구현 |  |
| **완료내용** | 회원가입 | 프로젝트  개요와 동일 |
| 로그인 | 프로젝트  개요와 동일 |
| 회원정보 수정 | 프로젝트  개요와 동일 |
| **프로젝트 활동 후기** | | |
| **좋았던 점** | 데이터베이스를 이용해 정보를 관리하고 웹페이지에서 입력을 받아오는 걸 직접 할 수 있었다 |  |
| **아쉬웠던 점 및**  **어려웠던 점** | 모든 코드 내용을 완벽히 이해하지 못했다 |  |
| 회원가입, 정보수정 등 비슷비슷한 폼을 여러 개 만드는 게 번거로웠다 |  |
| Id 중복 체크 부분 미완성 |  |
|  |  |
| **학습 효과** | 기본적인 회원가입 페이지 작성하는 법을 알았다 |  |

□프로젝트 세부 사항 분석 및 구조 설계

|  |  |  |  |
| --- | --- | --- | --- |
| **구분** | **주요 기능/구문** | **내용** | **입출력** |
| **1** | jstl | 스크립트릿을 사용하지 않고 간단한 코드로 만든다 |  |
| **2** | DAO / DTO | 데이터를 관리 |  |
| **3** | Servlet | 사용자 요청 처리 후 반환하는 자바 클래스 |  |
| **4** | Jsp | html태그+자바 이용하여 페이지 작성 |  |

□작성 과정, 실행결과

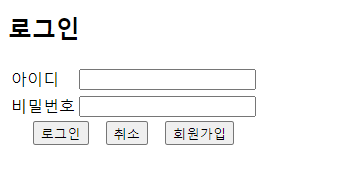
|  |  |  |
| --- | --- | --- |
| **구현 내용** | **결과** | **비고** |
| 데이터베이스 연동 | ㅇ |  |
| 조건에 따라 페이지 이동 | ㅇ |  |

□실행결과-1

텍스트이(가) 표시된 사진

자동 생성된 설명

index페이지



로그인화면

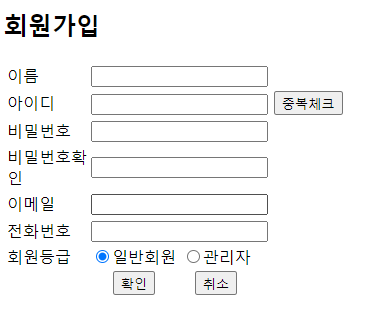
텍스트이(가) 표시된 사진

자동 생성된 설명

로그인한 화면



회원정보수정



회원가입

□소스코드-1

Controller

Joinservlet---------------------------------------------------------------------

package com.human.controller;

import java.io.IOException;

import javax.servlet.RequestDispatcher;

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.servlet.http.HttpSession;

import com.human.dao.MemberDAO;

import com.human.dto.MemberVO;

/\*\*

\* Servlet implementation class JoinServlet

\*/

@WebServlet("/join.do")

public class JoinServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

/\*\*

\* @see HttpServlet#HttpServlet()

\*/

public JoinServlet() {

super();

// TODO Auto-generated constructor stub

}

/\*\*

\* @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)

\*/

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

RequestDispatcher dispatcher=request.getRequestDispatcher("member/join.jsp");

dispatcher.forward(request, response);

}

/\*\*

\* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

request.setCharacterEncoding("utf-8");

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

String userid=request.getParameter("userid");

String pwd=request.getParameter("pwd");

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

String phone=request.getParameter("phone");

String admin=request.getParameter("admin");

MemberVO mVo=new MemberVO();

mVo.setName(name);

mVo.setUserid(userid);

mVo.setPwd(pwd);

mVo.setEmail(email);

mVo.setPhone(phone);

mVo.setAdmin(Integer.parseInt(admin));

MemberDAO mDao=MemberDAO.getInstance();

int result=mDao.insertMember(mVo);

HttpSession session=request.getSession();

if(result==1) {

session.setAttribute("userid", mVo.getUserid());

request.setAttribute("message", "회원가입 성공");

}else {

request.setAttribute("message", "회원가입 실패");

}

RequestDispatcher dispatcher=request.getRequestDispatcher("member/login.jsp");

dispatcher.forward(request, response);

}

}

Loginservlet================================================

package com.human.controller;

import java.io.IOException;

import javax.servlet.RequestDispatcher;

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.servlet.http.HttpSession;

import com.human.dao.MemberDAO;

import com.human.dto.MemberVO;

import oracle.net.aso.l;

/\*\*

\* Servlet implementation class LoginServlet

\*/

@WebServlet("/login.do")

public class LoginServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

/\*\*

\* @see HttpServlet#HttpServlet()

\*/

public LoginServlet() {

super();

// TODO Auto-generated constructor stub

}

/\*\*

\* @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)

\*/

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

String url="member/login.jsp";

HttpSession session=request.getSession();

if(session.getAttribute("loginUser")!=null) {

url="main.jsp";

}

RequestDispatcher dispatcher=request.getRequestDispatcher(url);

dispatcher.forward(request, response);

}

/\*\*

\* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

String url="member/login.jsp";

String userid=request.getParameter("userid");

String pwd=request.getParameter("pwd");

MemberDAO mDao=MemberDAO.getInstance();

int result=mDao.userCheck(userid, pwd);

if(result==1) {

MemberVO mVo=mDao.getMember(userid);

HttpSession session=request.getSession();

session.setAttribute("loginUser", mVo);

request.setAttribute("message", "회원가입 성공");

url="main.jsp";

}else if(result==0) {

request.setAttribute("message", "비밀번호를 확인하세요");

}else if(result==-1) {

request.setAttribute("message", "없는 아이디");

}

RequestDispatcher dispatcher=request.getRequestDispatcher(url);

dispatcher.forward(request, response);

}

}

Logoutservlet-------------------------------------------------------------------------------

import java.io.IOException;

import javax.servlet.RequestDispatcher;

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.servlet.http.HttpSession;

/\*\*

\* Servlet implementation class LogoutServlet

\*/

@WebServlet("/logout.do")

public class LogoutServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

/\*\*

\* @see HttpServlet#HttpServlet()

\*/

public LogoutServlet() {

super();

// TODO Auto-generated constructor stub

}

/\*\*

\* @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)

\*/

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

HttpSession session=request.getSession();

session.invalidate();

RequestDispatcher dispatcher=request.getRequestDispatcher("member/login.jsp");

dispatcher.forward(request, response);

}

/\*\*

\* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

// TODO Auto-generated method stub

doGet(request, response);

}

}

Memberupdateservlet---------------------------------------------------------------------

package com.human.controller;

import java.io.IOException;

import javax.servlet.RequestDispatcher;

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 com.human.dao.MemberDAO;

import com.human.dto.MemberVO;

/\*\*

\* Servlet implementation class MemberUpdateServlet

\*/

@WebServlet("/memberUpdate.do")

public class MemberUpdateServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

/\*\*

\* @see HttpServlet#HttpServlet()

\*/

public MemberUpdateServlet() {

super();

// TODO Auto-generated constructor stub

}

/\*\*

\* @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)

\*/

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

String userid=request.getParameter("userid");

MemberDAO mDao=MemberDAO.getInstance();

MemberVO mVo=mDao.getMember(userid);

request.setAttribute("mVo", mVo);

RequestDispatcher dispatcher=request.getRequestDispatcher("member/memberUpdate.jsp");

dispatcher.forward(request, response);

}

/\*\*

\* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

request.setCharacterEncoding("utf-8");

String userid=request.getParameter("userid");

String pwd=request.getParameter("pwd");

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

String phone=request.getParameter("phone");

String admin=request.getParameter("admin");

MemberVO mVo=new MemberVO();

mVo.setUserid(userid);

mVo.setPwd(pwd);

mVo.setEmail(email);

mVo.setPhone(phone);

mVo.setAdmin(Integer.parseInt(admin));

MemberDAO mDao=MemberDAO.getInstance();

mDao.updateMember(mVo);

response.sendRedirect("login.do");

}

}

DAO

memberdao================================================

package com.human.dao;

import java.sql.Connection;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import javax.naming.Context;

import javax.naming.InitialContext;

import javax.sql.DataSource;

import com.human.dto.MemberVO;

public class MemberDAO {

private MemberDAO() {}

private static MemberDAO instance = new MemberDAO();

public static MemberDAO getInstance() {

return instance;

}

public Connection getConnection() throws Exception{

Connection conn=null;

Context initContext = new InitialContext();

Context envContext=(Context) initContext.lookup("java:/comp/env");

DataSource ds =(DataSource) envContext.lookup("jdbc/myoracle");

conn=ds.getConnection();

return conn;

}

public int userCheck(String userid,String pwd) {

int result=-1;

String sql="select pwd from member where userid=?";

Connection conn=null;

PreparedStatement ps=null;

ResultSet rs=null;

try {

conn=getConnection();

ps=conn.prepareStatement(sql);

ps.setString(1, userid);

rs=ps.executeQuery();

if(rs.next()) {

if(rs.getString("pwd")!=null && rs.getString("pwd").equals(pwd)) {

result=1;

}else {

result=0;

}

}else {

result=1;

}

} catch (Exception e) {

e.printStackTrace();

}finally {

try {

if(rs!=null)rs.close();

if(ps!=null)ps.close();

if(conn!=null)conn.close();

} catch (Exception e) {

e.printStackTrace();

}

}

return result;

}

public MemberVO getMember(String userid) {

MemberVO mVo=null;

String sql="select \* from member where userid=?";

Connection conn=null;

PreparedStatement ps=null;

ResultSet rs=null;

try {

conn=getConnection();

ps=conn.prepareStatement(sql);

ps.setString(1, userid);

rs=ps.executeQuery();

if(rs.next()) {

mVo=new MemberVO();

mVo.setName(rs.getString("name"));

mVo.setUserid(rs.getString("userid"));

mVo.setPwd(rs.getString("pwd"));

mVo.setEmail(rs.getString("email"));

mVo.setPhone(rs.getString("phone"));

mVo.setAdmin(rs.getInt("admin"));

}

} catch (Exception e) {

e.printStackTrace();

}finally {

try {

if(rs!=null)rs.close();

if(ps!=null)ps.close();

if(conn!=null)conn.close();

} catch (Exception e) {

e.printStackTrace();

}

}

return mVo;

}

public int confirmID(String userid) {

int result=-1;

String sql="select userid from member where userid=?";

Connection conn=null;

PreparedStatement ps=null;

ResultSet rs=null;

try {

conn=getConnection();

ps=conn.prepareStatement(sql);

ps.setString(1, userid);

rs=ps.executeQuery();

if(rs.next()) {

result=1;

}else {

result=-1;

}

} catch (Exception e) {

e.printStackTrace();

}finally {

try {

if(rs!=null)rs.close();

if(ps!=null)ps.close();

if(conn!=null)conn.close();

} catch (Exception e) {

e.printStackTrace();

}

}

return result;

}

public int insertMember(MemberVO mVo) {

int result=-1;

String sql="insert into member values(?,?,?,?,?,?)";

Connection conn=null;

PreparedStatement ps=null;

try {

conn=getConnection();

ps=conn.prepareStatement(sql);

ps.setString(1, mVo.getName());

ps.setString(2, mVo.getUserid());

ps.setString(3, mVo.getPwd());

ps.setString(4, mVo.getEmail());

ps.setString(5, mVo.getPhone());

ps.setInt(6, mVo.getAdmin());

result=ps.executeUpdate();

} catch (Exception e) {

e.printStackTrace();

}finally {

try {

if(ps!=null)ps.close();

if(conn!=null)conn.close();

} catch (Exception e) {

e.printStackTrace();

}

}

return result;

}

public int updateMember(MemberVO mVo) {

int result=-1;

String sql="update member set pwd=?,email=?,phone=?,admin=? where userid=?";

Connection conn=null;

PreparedStatement ps=null;

try {

conn=getConnection();

ps=conn.prepareStatement(sql);

ps.setString(1, mVo.getPwd());

ps.setString(2, mVo.getEmail());

ps.setString(3, mVo.getPhone());

ps.setInt(4, mVo.getAdmin());

ps.setString(5, mVo.getUserid());

result=ps.executeUpdate();

} catch (Exception e) {

e.printStackTrace();

}finally {

try {

if(ps!=null)ps.close();

if(conn!=null)conn.close();

} catch (Exception e) {

e.printStackTrace();

}

}

return result;

}

}

DTO

Membervo=================================================

package com.human.dto;

public class MemberVO {

private String name;

private String userid;

private String pwd;

private String email;

private String phone;

private int admin;

public MemberVO() {}

public MemberVO(String name, String userid, String pwd, String email, String phone, int admin) {

super();

this.name = name;

this.userid = userid;

this.pwd = pwd;

this.email = email;

this.phone = phone;

this.admin = admin;

}

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

public String getUserid() {

return userid;

}

public void setUserid(String userid) {

this.userid = userid;

}

public String getPwd() {

return pwd;

}

public void setPwd(String pwd) {

this.pwd = pwd;

}

public String getEmail() {

return email;

}

public void setEmail(String email) {

this.email = email;

}

public String getPhone() {

return phone;

}

public void setPhone(String phone) {

this.phone = phone;

}

public int getAdmin() {

return admin;

}

public void setAdmin(int admin) {

this.admin = admin;

}

@Override

public String toString() {

return "MemberVO [name=" + name + ", userid=" + userid + ", pwd=" + pwd + ", email=" + email + ", phone="

+ phone + ", admin=" + admin + "]";

}

}

WEBCONTENT

Join.jsp================================================

<%@ page language="java" contentType="text/html; charset=UTF-8"

pageEncoding="UTF-8"%>

<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<title>회원가입</title>

<script type="text/javascript" src="scrpt/member.js"></script>

</head>

<body>

<h2>회원가입</h2>

<form action="join.do" method="post" name="frm">

<table>

<tr>

<td>이름</td>

<td><input type="text" name="name" size="20"></td>

</tr>

<tr>

<td>아이디</td>

<td>

<input type="text" name="userid" size="20" id="userid">

<input type="hidden" name="reid" size="20">

<input type="button" value="중복체크" onclick="idCheck()">

</td>

</tr>

<tr>

<td>비밀번호</td>

<td><input type="password" name="pwd" size="20"></td>

</tr>

<tr height="30">

<td width="80">비밀번호확인</td>

<td><input type="password" name="pwd\_check" size="20"></td>

</tr>

<tr>

<td>이메일</td>

<td><input type="text" name="email" size="20"></td>

</tr>

<tr>

<td>전화번호</td>

<td><input type="text" name="phone" size="20"></td>

</tr>

<tr>

<td>회원등급</td>

<td>

<input type="radio" name="admin" value="0" checked="checked">일반회원

<input type="radio" name="admin" value="1">관리자

</td>

</tr>

<tr>

<td colspan="2" align="center">

<input type="submit" value="확인" onclick="return joinCheck()">

&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;

<input type="reset" value="취소">

</td>

</tr>

</table>

</form>

</body>

</html>

Login.jsp====================================================

<%@ page language="java" contentType="text/html; charset=UTF-8"

pageEncoding="UTF-8"%>

<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<title>회원 관리</title>

<script type="text/javascript" src="script/member.js"></script>

</head>

<body>

<h2>로그인</h2>

<form action="login.do" method="post" name="frm">

<table>

<tr>

<td>아이디</td>

<td><input type="text" name="userid" value="${userid}"></td>

</tr>

<tr>

<td>비밀번호</td>

<td><input type="password" name="pwd"></td>

</tr>

<tr>

<td colspan="2" align="center">

<input type="submit" value="로그인" onclick="return loginCheck()">&nbsp;&nbsp;

<input type="reset" value="취소">&nbsp;&nbsp;

<input type="button" value="회원가입" onclick="location.href='join.do'">

</tr>

<tr><td colspan="2">${message}</td></tr>

</table>

</form>

</body>

</html>

Memberupdate.jsp=========================================

<%@ page language="java" contentType="text/html; charset=UTF-8"

pageEncoding="UTF-8"%>

<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>

<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<title>회원정보수정</title>

<script type="text/javascript" src="script/member.js"></script>

</head>

<body>

<h2>회원정보수정</h2>

<form action="memberUpdate.do" method="post" name="frm">

<table>

<tr>

<td>이름</td>

<td><input type="text" name="name" value="${mVo.name }" size="20" readonly></td>

</tr>

<tr>

<td>아이디</td>

<td>

<input type="text" name="userid" size="20" value="${mVo.userid }" readonly>

</td>

</tr>

<tr>

<td>비밀번호</td>

<td><input type="password" name="pwd" size="20"></td>

</tr>

<tr height="30">

<td width="80">비밀번호확인</td>

<td><input type="password" name="pwd\_check" size="20"></td>

</tr>

<tr>

<td>이메일</td>

<td><input type="text" name="email" size="20" value="${mVo.email }" readonly></td>

</tr>

<tr>

<td>전화번호</td>

<td><input type="text" name="phone" size="20" value="${mVo.phone }" readonly></td>

</tr>

<tr>

<td>회원등급</td>

<td>

<c:choose>

<c:when test="${mVo.admin==0 }">

<input type="radio" name="admin" value="0" checked="checked">일반회원

<input type="radio" name="admin" value="1">관리자

</c:when>

<c:otherwise>

<input type="radio" name="admin" value="0">일반회원

<input type="radio" name="admin" value="1" checked="checked">관리자

</c:otherwise>

</c:choose>

</td>

</tr>

<tr>

<td colspan="2" align="center">

<input type="submit" value="확인" onclick="return joinCheck()">

&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;

<input type="reset" value="취소">

</td>

</tr>

</table>

</form>

</body>

</html>

SCRIPT

Member.js===============================================

function loginCheck(){

if(document.frm.userid.value.length==0){

alert("아이디를 입력하세요");

frm.userid.focus();

return false;

}

if(document.frm.pwd.value==""){

alert("비밀번호를 입력하세요");

frm.pwd.focus();

return false;

}

return true;

}

function idCheck(){

if(document.frm.userid.value==""){

alert('아이디를 입력하세요');

document.frm.userid.focus();

return;

}

var url="idCheck.do?userid="+document.frm.userid.value;

window.open(url,"\_blank\_1","toolbar=no, menubar=no, scroolbars=yes, resizable=yes, width=450, height=300");

}

function idok(){

opener.frm.userid.value=document.frm.userid.value;

opener.frm.reid.value=document.frm.userid.value;

self.close();

}

function joinCheck(){

if(document.frm.name.value.length==0){

alert("이름을 입력하세요");

frm.name.focus();

return false;

}

if(document.frm.userid.value.length==0){

alert("아이디를 입력하세요");

frm.userid.focus();

return false;

}

if(document.frm.userid.value.length<4){

alert("아이디가 너무 짧습니다(4글자 이상)");

frm.userid.focus();

return false;

}

if(document.frm.pwd.value==""){

alert("비밀번호를 입력하세요");

frm.pwd.focus();

return false;

}

if(document.frm.pwd.value!=document.frm.pwd.pwd\_check.value){

alert("비밀번호 확인이 틀렸습니다");

frm.pwd.focus();

return false;

}

if(document.frm.reid.value.length==0){

alert("아이디 중복 검사를 해주세요");

frm.userid.focus();

return false;

}

return true;

}

Index.jsp=============================================

<%@ page language="java" contentType="text/html; charset=UTF-8"

pageEncoding="UTF-8"%>

<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<title>로그인</title>

</head>

<body>

<a href="login.do">로그인 페이지로</a>

</body>

</html>

Main.jsp================================================

<%@ page language="java" contentType="text/html; charset=UTF-8"

pageEncoding="UTF-8"%>

<!DOCTYPE html>

<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>

<c:if test="${empty loginUser}">

<jsp:forward page="login.do"/></c:if>

<html>

<head>

<meta charset="UTF-8">

<title>회원 페이지</title>

<script type="text/javascript" src="member.js"></script>

</head>

<body>

<h2>회원 페이지</h2>

<form action="logout.do">

<table>

<tr>

<td>안녕하세요 ${loginUser.name}(${loginUser.userid})!</td>

</tr>

<tr>

<td colspan="2" align="center">

<input type="submit" value="로그아웃">&nbsp;&nbsp;

<input type="button" value="회원정보변경" onclick="location.href='memberUpdate.do?userid=${loginUser.userid}'">

</td>

</tr>

</table>

</form>

</body>

</html>