**[18] MVC 패턴을 이용한 회원인증**

1. 전체적인 컴포넌트 설계

MLoginService

로직

MLogoutService

MFrontController

클라이언트

(클라이언트)

MGetMemberService

MModifyService

DB

DAO

DTO

MJoinService

MAllViewService

modify.jsp

w.jsp

join.jsp

main.jsp

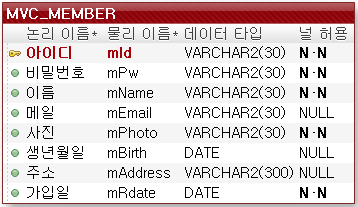
w.jsp

login.jsp

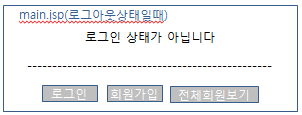
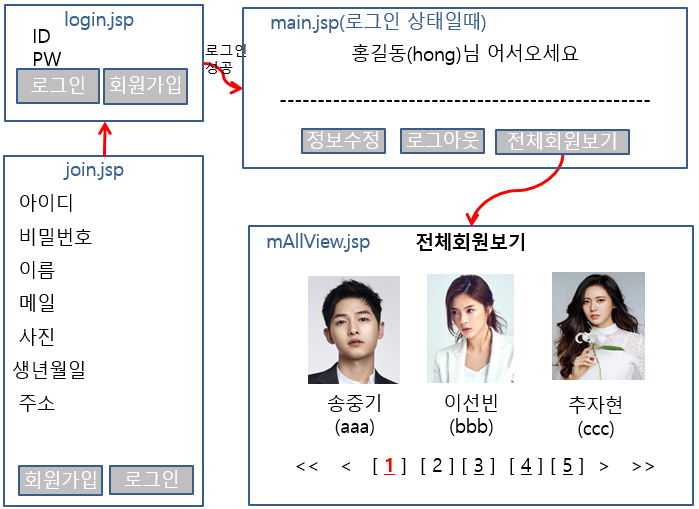
mAllView.jsp

MWithdrawalService

1. DB 디자인



1. 실행화면



1. DB(mvc\_member.sql)

**DROP** **TABLE** MVC\_MEMBER;

-- DROP & CREATE

**DROP** **TABLE** MVC\_MEMBER;

**CREATE** **TABLE** MVC\_MEMBER(

mID VARCHAR2(30) **PRIMARY** **KEY**,

mPW VARCHAR2(30) **NOT** **NULL**,

mNAME VARCHAR2(30) **NOT** **NULL**,

mEMAIL VARCHAR2(30),

mPHOTO VARCHAR2(30) **NOT** **NULL**, -- 회원가입시 사진업로드를 안 할시 기본 이미지로(NOIMG.JPG)

mBIRTH **DATE**,

mADDRESS VARCHAR2(300),

mRDATE **DATE** **DEFAULT** SYSDATE **NOT** **NULL**

);

-- DUMMY DATA

**INSERT** **INTO** MVC\_MEMBER (MID, MPW, MNAME, MEMAIL, MPHOTO, MBIRTH, MADDRESS)

**VALUES** ('gayun','1','김가연','gayun@naver.com','gayun.jpg','1972/09/09','광주광역시');

**INSERT** **INTO** MVC\_MEMBER (MID, MPW, MNAME, MEMAIL, MPHOTO, MBIRTH, MADDRESS)

**VALUES** ('gico','1','지코','gico@naver.com','gico.jpg','1992/09/14','서울시');

**INSERT** **INTO** MVC\_MEMBER (MID, MPW, MNAME, MEMAIL, MPHOTO, MBIRTH, MADDRESS)

**VALUES** ('go','1','고소영','go@naver.com','go.jpg','1972/10/06','서울시');

**INSERT** **INTO** MVC\_MEMBER (MID, MPW, MNAME, MEMAIL, MPHOTO, MBIRTH, MADDRESS)

**VALUES** ('ham','1','함소원','ham@naver.com','ham.jpg','1976/06/16','서울시');

**INSERT** **INTO** MVC\_MEMBER (MID, MPW, MNAME, MEMAIL, MPHOTO, MBIRTH, MADDRESS)

**VALUES** ('han','1','한지민','han@naver.com','han.jpg','1982/11/05','서울시');

**INSERT** **INTO** MVC\_MEMBER (MID, MPW, MNAME, MEMAIL, MPHOTO, MBIRTH, MADDRESS)

**VALUES** ('jang','1','장동건',**null**,'jang.jpg',**null**,**null**);

**INSERT** **INTO** MVC\_MEMBER (MID, MPW, MNAME, MEMAIL, MPHOTO, MBIRTH, MADDRESS)

**VALUES** ('jo','1','조현우',**null**,'jo.jpg',**null**,**null**);

**INSERT** **INTO** MVC\_MEMBER (MID, MPW, MNAME, MEMAIL, MPHOTO, MBIRTH, MADDRESS)

**VALUES** ('kang','1','강동원',**null**,'kang.jpg',**null**,**null**);

**INSERT** **INTO** MVC\_MEMBER (MID, MPW, MNAME, MEMAIL, MPHOTO, MBIRTH, MADDRESS)

**VALUES** ('kim','1','김태희',**null**,'kim.jpg',**null**,**null**);

**INSERT** **INTO** MVC\_MEMBER (MID, MPW, MNAME, MEMAIL, MPHOTO, MBIRTH, MADDRESS)

**VALUES** ('lee','1','이선빈',**null**,'lee.jpg',**null**,**null**);

**INSERT** **INTO** MVC\_MEMBER (MID, MPW, MNAME, MEMAIL, MPHOTO, MBIRTH, MADDRESS)

**VALUES** ('lim','1','임요한',**null**,'lim.jpg',**null**,**null**);

**INSERT** **INTO** MVC\_MEMBER (MID, MPW, MNAME, MEMAIL, MPHOTO, MBIRTH, MADDRESS)

**VALUES** ('park','1','박보검',**null**,'park.jpg',**null**,**null**);

**INSERT** **INTO** MVC\_MEMBER (MID, MPW, MNAME, MEMAIL, MPHOTO, MBIRTH, MADDRESS)

**VALUES** ('rain','1','비',**null**,'rain.jpg',**null**,**null**);

**INSERT** **INTO** MVC\_MEMBER (MID, MPW, MNAME, MEMAIL, MPHOTO, MBIRTH, MADDRESS)

**VALUES** ('sgy','1','송가연',**null**,'sgy.jpg',**null**,**null**);

**INSERT** **INTO** MVC\_MEMBER (MID, MPW, MNAME, MEMAIL, MPHOTO, MBIRTH, MADDRESS)

**VALUES** ('son','1','손흥민',**null**,'son.jpg',**null**,**null**);

**INSERT** **INTO** MVC\_MEMBER (MID, MPW, MNAME, MEMAIL, MPHOTO, MBIRTH, MADDRESS)

**VALUES** ('song','1','송중기',**null**,'song.jpg',**null**,**null**);

**COMMIT**;

-- dao에 들어갈 query

-- (1) 회원id 중복체크

**SELECT** \* **FROM** MVC\_MEMBER **WHERE** MID='aaa';

-- (2) 회원가입

**INSERT** **INTO** MVC\_MEMBER (MID, MPW, MNAME, MEMAIL, MPHOTO, MBIRTH, MADDRESS)

**VALUES** ('aaa','1','홍길동','hong@naver.com','NOIMG.JPG','1998/12/12','서대문');

**COMMIT**;

-- (3) 로그인

**SELECT** \* **FROM** MVC\_MEMBER **WHERE** mID='aaa' **and** mPW='1';

-- (4) mid로 dto가져오기(로그인 성공시 session에 넣기 위함)

**SELECT** \* **FROM** MVC\_MEMBER **WHERE** MID='aaa';

-- (5) 회원정보 수정

**UPDATE** MVC\_MEMBER **SET** MPW = '1',

MNAME = 'HONG',

MEMAIL = 'yi@naver.com',

MPHOTO = 'NOIMG.JPG',

MBIRTH = '1991/12/12',

MADDRESS = '서울'

**WHERE** mId='aaa';

-- (6) 회원리스트(top-N구문)

**SELECT** \* **FROM** (**SELECT** ROWNUM RN, A.\* **FROM**

(**SELECT** \* **FROM** MVC\_MEMBER **ORDER** **BY** mRDATE **DESC**) A)

**WHERE** RN **BETWEEN** 3 **AND** 5;

-- (7) 회원수

**SELECT** COUNT(\*) CNT **FROM** MVC\_MEMBER;

**COMMIT**;

-- (8) 회원탈퇴

**DELETE** **FROM** MVC\_MEMBER **WHERE** MID = 'bbb';

ROLLBACK;

1. DTO

**public** **class** MemberDto {

**private** String mid;

**private** String mpw;

**private** String mname;

**private** String memail;

**private** String mphoto;

**private** Date mbirth;

**private** String maddress;

**private** Timestamp mrdate;

}

1. DAO

**public** **class** MemberDao {

**public** **static** **final** **int** ***EXISTENT*** = 0;

**public** **static** **final** **int** ***NONEXISTENT*** = 1;

**public** **static** **final** **int** ***LOGIN\_FAIL*** =0;

**public** **static** **final** **int** ***LOGIN\_SUCCESS*** = 1;

**public** **static** **final** **int** ***FAIL*** = 0;

**public** **static** **final** **int** ***SUCCESS*** = 1;

**private** **static** MemberDao *instance* = **new** MemberDao();

**public** **static** MemberDao getInstance() {

**return** *instance*;

}

**private** MemberDao() {}

**private** Connection getConnection() **throws** SQLException {

Connection conn = **null**;

**try** {

Context ctx = **new** InitialContext();

DataSource ds = (DataSource) ctx.lookup("java:comp/env/jdbc/Oracle11g");

conn = ds.getConnection();

} **catch** (NamingException e) {

System.***out***.println(e.getMessage());

}

**return** conn;

}

// (1) 회원id 중복체크

**public** **int** midConfirm(String mid) {

**int** result = ***EXISTENT***;

Connection conn = **null**;

PreparedStatement pstmt = **null**;

ResultSet rs = **null**;

String sql = "SELECT \* FROM MVC\_MEMBER WHERE mId=?";

**try** {

conn = getConnection();

pstmt = conn.prepareStatement(sql);

pstmt.setString(1, mid);

rs = pstmt.executeQuery();

**if**(rs.next()) {

result = ***EXISTENT***;

}**else** {

result = ***NONEXISTENT***;

}

} **catch** (Exception e) {

System.***out***.println(e.getMessage());

}**finally** {

**try** {

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

**if**(pstmt != **null**) pstmt.close();

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

} **catch** (Exception e) {

System.***out***.println(e.getMessage());

}

}

**return** result;

}

// (2) 회원가입

**public** **int** joinMember(MemberDto member) {

**int** result = ***FAIL***;

Connection conn = **null**;

PreparedStatement pstmt = **null**;

String sql = "INSERT INTO MVC\_MEMBER "

+ "(mID, mPw, mName, mEmail, mPhoto, mBirth, mAddress) "

+ "VALUES (?,?,?,?,?,?,?)";

**try** {

conn = getConnection();

pstmt = conn.prepareStatement(sql);

pstmt.setString(1, member.getMid());

pstmt.setString(2, member.getMpw());

pstmt.setString(3, member.getMname());

pstmt.setString(4, member.getMemail());

pstmt.setString(5, member.getMphoto());

pstmt.setDate(6, member.getMbirth());

pstmt.setString(7, member.getMaddress());

result = pstmt.executeUpdate();

} **catch** (Exception e) {

System.***out***.println(e.getMessage());

}**finally** {

**try** {

**if**(pstmt != **null**) pstmt.close();

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

} **catch** (Exception e) {

System.***out***.println(e.getMessage());

}

}

**return** result;

}

// (3) 로그인 체크

**public** **int** loginCheck(String mId, String mPw) {

**int** result = ***LOGIN\_FAIL***;

Connection conn = **null**;

PreparedStatement pstmt = **null**;

ResultSet rs = **null**;

String sql = "SELECT \* FROM MVC\_MEMBER WHERE mID=? and mPW=?";

**try** {

conn = getConnection();

pstmt = conn.prepareStatement(sql);

pstmt.setString(1, mId);

pstmt.setString(2, mPw);

rs = pstmt.executeQuery();

**if**(rs.next()) {

result = ***LOGIN\_SUCCESS***;

}**else** {

result = ***LOGIN\_FAIL***;

}

} **catch** (Exception e) {

System.***out***.println(e.getMessage());

}**finally** {

**try** {

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

**if**(pstmt != **null**) pstmt.close();

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

} **catch** (Exception e) {

System.***out***.println(e.getMessage());

}

}

**return** result;

}

// (4) mid로 dto가져오기(로그인 성공시 session에 넣기 위함)

**public** MemberDto getMember(String mid) {

MemberDto member = **null**;

Connection conn = **null**;

PreparedStatement pstmt = **null**;

ResultSet rs = **null**;

String sql = "SELECT \* FROM MVC\_MEMBER WHERE mId=?";

**try** {

conn = getConnection();

pstmt = conn.prepareStatement(sql);

pstmt.setString(1, mid);

rs = pstmt.executeQuery();

**if**(rs.next()) {

String mpw = rs.getString("mpw");

String mname = rs.getString("mname");

String memail = rs.getString("memail");

String mphoto = rs.getString("mphoto");

Date mbirth = rs.getDate("mbirth");

String maddress=rs.getString("maddress");

Timestamp mrdate = rs.getTimestamp("mrdate");

member = **new** MemberDto(mid, mpw, mname, memail, mphoto, mbirth, maddress, mrdate);

}

} **catch** (Exception e) {

System.***out***.println(e.getMessage());

}**finally** {

**try** {

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

**if**(pstmt != **null**) pstmt.close();

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

} **catch** (Exception e) {

System.***out***.println(e.getMessage());

}

}

**return** member;

}

// (5) 회원정보 수정

**public** **int** modifyMember(MemberDto member) {

**int** result = ***FAIL***;

Connection conn = **null**;

PreparedStatement pstmt = **null**;

String sql = "UPDATE MVC\_MEMBER SET mPw = ?," +

" mName = ?," +

" mEmail = ?," +

" mPhoto = ?," +

" mBirth = ?," +

" mAddress = ?" +

" WHERE mId=?";

**try** {

conn = getConnection();

pstmt = conn.prepareStatement(sql);

pstmt.setString(1, member.getMpw());

pstmt.setString(2, member.getMname());

pstmt.setString(3, member.getMemail());

pstmt.setString(4, member.getMphoto());

pstmt.setDate(5, member.getMbirth());

pstmt.setString(6, member.getMaddress());

pstmt.setString(7, member.getMid());

result = pstmt.executeUpdate();

} **catch** (Exception e) {

System.***out***.println(e.getMessage());

}**finally** {

**try** {

**if**(pstmt != **null**) pstmt.close();

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

} **catch** (Exception e) {

System.***out***.println(e.getMessage());

}

}

**return** result;

}

// (6) 회원리스트(top-N구문)

**public** ArrayList<MemberDto> allMember(**int** startRow, **int** endRow){

ArrayList<MemberDto> members = **new** ArrayList<MemberDto>();

Connection conn = **null**;

PreparedStatement pstmt = **null**;

ResultSet rs = **null**;

String sql = "SELECT \* FROM (SELECT ROWNUM RN, A.\* FROM "

+ " (SELECT \* FROM MVC\_MEMBER ORDER BY mRDATE DESC) A)"

+ " WHERE RN BETWEEN ? AND ?";

**try** {

conn = getConnection();

pstmt = conn.prepareStatement(sql);

pstmt.setInt(1, startRow);

pstmt.setInt(2, endRow);

rs = pstmt.executeQuery();

**while**(rs.next()) {

String mid = rs.getString("mId");

String mpw = rs.getString("mPw");

String mname = rs.getString("mName");

String memail = rs.getString("mEmail");

String mphoto = rs.getString("mPhoto");

Date mbirth = rs.getDate("mBirth");

String maddress=rs.getString("mAddress");

Timestamp mRdate = rs.getTimestamp("mRdate");

members.add(**new** MemberDto(mid, mpw, mname, memail, mphoto, mbirth, maddress, mRdate));

}

} **catch** (Exception e) {

System.***out***.println(e.getMessage());

}**finally** {

**try** {

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

**if**(pstmt != **null**) pstmt.close();

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

} **catch** (Exception e) {

System.***out***.println(e.getMessage());

}

}

**return** members;

}

// (7) 회원수

**public** **int** getMemberTotCnt() {

**int** totCnt = 0;

Connection conn = **null**;

PreparedStatement pstmt = **null**;

ResultSet rs = **null**;

String sql = "SELECT COUNT(\*) CNT FROM MVC\_MEMBER";

**try** {

conn = getConnection();

pstmt = conn.prepareStatement(sql);

rs = pstmt.executeQuery();

**if**(rs.next()) {

totCnt = rs.getInt("cnt");

}

} **catch** (Exception e) {

System.***out***.println(e.getMessage());

}**finally** {

**try** {

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

**if**(pstmt != **null**) pstmt.close();

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

} **catch** (Exception e) {

System.***out***.println(e.getMessage());

}

}

**return** totCnt;

}

// (8) 회원탈퇴

**public** **int** withdrawal(String mId) {

**int** result = ***FAIL***;

Connection conn = **null**;

PreparedStatement pstmt = **null**;

String sql = "DELETE FROM MVC\_MEMBER WHERE MID = ?";

**try** {

conn = getConnection();

pstmt = conn.prepareStatement(sql);

pstmt.setString(1, mId);

result = pstmt.executeUpdate();

} **catch** (Exception e) {

System.***out***.println(e.getMessage());

}**finally** {

**try** {

**if**(pstmt != **null**) pstmt.close();

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

} **catch** (Exception e) {

System.***out***.println(e.getMessage());

}

}

**return** result;

}

}

1. MController.java

@WebServlet("\*.do")

**public** **class** MController **extends** HttpServlet {

**private** **static** **final** **long** ***serialVersionUID*** = 1L;

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

actionDo(request, response);

}

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

request.setCharacterEncoding("utf-8");

actionDo(request, response);

}

**private** **void** actionDo(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {

String uri = request.getRequestURI();

String conPath = request.getContextPath();

String command = uri.substring(conPath.length()); // 들어온 요청

String viewPage = **null**;

Service service = **null**;

**if**(command.equals("/main.do")) { // 메인페이지

viewPage = "member/main.jsp";

}**else** **if**(command.equals("/joinView.do")) { // 회원가입 화면

viewPage = "member/join.jsp";

}**else** **if**(command.equals("/join.do")) { // 회원가입 DB 처리

service = **new** MJoinService(); // execute메소드 : mid중복체크 후 회원가입

service.execute(request, response);

viewPage = "loginView.do";

}**else** **if**(command.equals("/loginView.do")) { // 로그인 화면

viewPage = "member/login.jsp";

}**else** **if**(command.equals("/login.do")) { // 로그인 DB 및 세션 처리

service = **new** MLoginService();

service.execute(request, response);

viewPage = "member/main.jsp";

}**else** **if**(command.equals("/logout.do")) {//로그아웃 - 세션 날리기

service = **new** MLogoutService();

service.execute(request, response);

viewPage = "member/main.jsp";

}**else** **if**(command.equals("/modifyView.do")) {

//service = new MGetMemberService();// DB에서 회원정보를 가져와도 되고 session에서 가져와도 됨

//service.execute(request, response);// 세션에 dto를 넣었으면 이 두줄은 필요없음

viewPage = "member/modify.jsp";

}**else** **if**(command.equals("/modify.do")) { // DB에 정보 수정

service = **new** MModifyService();

service.execute(request, response);

viewPage = "member/main.jsp";

}**else** **if**(command.equals("/allView.do")) { // 회원목록가져오기

service = **new** MAllViewService();

service.execute(request, response);

viewPage = "member/mAllView.jsp";

}**else** **if**(command.equals("/withdrawal.do")) { // 회원탈퇴

service = **new** MWithdrawalService();

service.execute(request, response);

viewPage = "member/main.jsp";

}

RequestDispatcher dispatcher = request.getRequestDispatcher(viewPage);

dispatcher.forward(request, response);

}

}

1. Service단

**(MService.java)**

**public** **interface** **MService** {

**public** **void** execute(HttpServletRequest request, HttpServletResponse response);

}

**(MJoinService.java)**

**public** **class** MJoinService **implements** MService {

@Override

**public** **void** execute(HttpServletRequest request, HttpServletResponse response) {

String path = request.~~getRealPath~~("memberPhotoUp");

**int** maxSize = 1024\*1024; // 사진 업로드 제한 용량 : 1M

String mphoto = ""; // 첨부된 파일이 저장된 파일 이름

// mRequest 객체 생성 후 mPhoto 파일이름 얻어옴

MultipartRequest mRequest = **null**;

**int** result = 0;

**try** {

mRequest = **new** MultipartRequest(request, path, maxSize,

"utf-8", **new** DefaultFileRenamePolicy());

Enumeration<String> params = mRequest.getFileNames();

//while(params.hasMoreElements()) {

String param = params.nextElement();

mphoto = mRequest.getFilesystemName(param);

//}

// mRequest을 이용하여 파라미터 받아와서 DB 저장

String mid = mRequest.getParameter("mid");

String mpw = mRequest.getParameter("mpw");

String mname = mRequest.getParameter("mname");

String memail = mRequest.getParameter("memail");

mphoto = mphoto==**null** ? "NOIMG.JPG" : mphoto;

String mbirthStr = mRequest.getParameter("mbirth");

Date mbirth = **null**;

**if**(!mbirthStr.equals("")) {

mbirth = Date.*valueOf*(mbirthStr);

}

String maddress = mRequest.getParameter("maddress");

MemberDao mDao = MemberDao.*getInstance*();

// mid 중복 체크

result = mDao.midConfirm(mid);

**if**(result == MemberDao.***NONEXISTENT***) { // 가입 가능한 mID이까 회원가입

MemberDto member = **new** MemberDto(mid, mpw, mname, memail,

mphoto, mbirth, maddress, **null**);

// 회원가입

result = mDao.joinMember(member);

**if**(result == MemberDao.***SUCCESS***) {

HttpSession session = request.getSession(); // 세션은 request로 부터

session.setAttribute("mid", mid);

request.setAttribute("joinResult", "회원가입이 완료되었습니다");

}**else** {

request.setAttribute("joinErrorMsg", "정보가 너무 길어서 회원가입 실패");

}

}**else** {

request.setAttribute("joinErrorMsg", "중복된 ID는 회원가입이 불가합니다");

}

} **catch** (IOException e) {

System.***out***.println(e.getMessage());

request.setAttribute("joinErrorMsg", "첨부 파일의 용량이 너무 큽니다. 1M가 이내로 업로드 해 주세요");

}

// 서버에 업로드된 파일을 소스 폴더로 복사

File serverFile = **new** File(path + "/" + mphoto);

**if**(serverFile.exists() && !mphoto.equals("NOIMG.JPG") && result==MemberDao.***SUCCESS***) {

InputStream is = **null**;

OutputStream os = **null**;

**try** {

is = **new** FileInputStream(serverFile);

os = **new** FileOutputStream("D:\\source\\06\_jsp\\mvcMember\\src\\main\\webapp\\memberPhotoUp\\"+mphoto);

**byte**[] bs = **new** **byte**[(**int**) serverFile.length()];

**while**(**true**) {

**int** readByteCnt = is.read(bs);

**if**(readByteCnt==-1) **break**;

os.write(bs, 0, readByteCnt);

}

} **catch** (IOException e) {

System.***out***.println(e.getMessage());

}**finally** {

**try** {

**if**(os!=**null**) os.close();

**if**(is!=**null**) is.close();

} **catch** (IOException e) {

// **TODO**: handle exception

}

}

}

}

}

**(MLoginService.java)**

**public** **class** MLoginService **implements** MService {

@Override

**public** **void** execute(HttpServletRequest request, HttpServletResponse response) {

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

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

MemberDao mDao = MemberDao.*getInstance*();

**int** result = mDao.loginCheck(mid, mpw);

**if**(result==MemberDao.***LOGIN\_SUCCESS***) { // 로그인 성공

HttpSession session = request.getSession();

MemberDto member = mDao.getMember(mid);

session.setAttribute("member", member);

}**else** { // 로그인 실패

request.setAttribute("loginErrorMsg", "아이디와 비번을 확인하세요");

}

}

}

**(MLogoutService.java)**

**public** **class** MLogoutService **implements** MService {

@Override

**public** **void** execute(HttpServletRequest request, HttpServletResponse response) {

HttpSession session = request.getSession();

session.invalidate();

}

}

**(MModifyService.java)**

**public** **class** MModifyService **implements** MService {

@Override

**public** **void** execute(HttpServletRequest request, HttpServletResponse response) {

String path = request.~~getRealPath~~("memberPhotoUp");

**int** maxSize = 1024\*1024; // 최대 업로드 사이즈 : 1M

String mphoto = "";

**int** result = MemberDao.***FAIL***;

**try** {

// mRequest 객체 생성한 후 파일 이름 받아오기

MultipartRequest mRequest = **new** MultipartRequest(request, path, maxSize,

"utf-8", **new** DefaultFileRenamePolicy());

Enumeration<String> params = mRequest.getFileNames();

//while(params.hasMoreElements()) {

String param = params.nextElement(); // mPhoto

mphoto = mRequest.getFilesystemName(param);

//}

// 파라미터값 다 받아오기 -> DB에 넣기

String dbMphoto = mRequest.getParameter("dbMphoto");

String dbMpw = mRequest.getParameter("dbMpw");

String mid = mRequest.getParameter("mid");

String oldMpw = mRequest.getParameter("oldMpw");

**if**(!oldMpw.equals(dbMpw)) {

// 수정 실패시

request.setAttribute("modifyResult", "현 비밀번호를 확인하세요");

**return**;

}

String mpw = mRequest.getParameter("mpw");

**if**(mpw.equals("")) {

mpw = dbMpw;

}

String mname = mRequest.getParameter("mname");

String memail = mRequest.getParameter("memail");

// 정보수정시 사진파일을 첨부안하면 dbmPhoto(원래 사진파일)로

mphoto = (mphoto==**null**)? dbMphoto : mphoto;

System.***out***.println(mphoto+"로 함");

//HttpSession session = request.getSession();

//mPhoto = (mPhoto==null)? ((MemberDto)session.getAttribute("member")).getmPhoto() : mPhoto;

String mbirthStr = mRequest.getParameter("mbirth");

Date mbirth = **null**;

**if**(!mbirthStr.equals("")) {

mbirth = Date.*valueOf*(mbirthStr);

}

String maddress = mRequest.getParameter("maddress");

MemberDao mDao = MemberDao.*getInstance*();

// 회원정보 수정

MemberDto member = **new** MemberDto(mid, mpw, mname, memail, mphoto, mbirth, maddress, **null**);

result = mDao.modifyMember(member);

**if**(result == MemberDao.***SUCCESS***) {// 수정 성공시 세션도 수정

HttpSession httpSession = request.getSession();

httpSession.setAttribute("member", member);

request.setAttribute("modifyResult", "회원정보 수정 성공");

}**else** {

// 수정 실패시

request.setAttribute("modifyResult", "회원정보 수정 실패");

}

} **catch** (Exception e) {

System.***out***.println(e.getMessage());

}

// 업로드된 파일을 소스폴더로 복사

File serverFile = **new** File(path+"/"+mphoto);

**if**(!mphoto.equals("NOIMG.JPG") && serverFile.exists() && result == MemberDao.***SUCCESS***) {

InputStream is = **null**;

OutputStream os = **null**;

**try** {

is = **new** FileInputStream(serverFile);

os = **new** FileOutputStream("D:\\source\\06\_jsp\\mvcMember\\src\\main\\webapp\\memberPhotoUp\\"+mphoto);

**byte**[] bs = **new** **byte**[(**int**)serverFile.length()];

**while**(**true**) {

**int** readbyteCnt = is.read(bs);

**if**(readbyteCnt == -1) **break**;

os.write(bs, 0, readbyteCnt);

}

} **catch** (Exception e) {

System.***out***.println(e.getMessage());

}**finally** {

**try** {

**if**(os!=**null**) os.close();

**if**(is!=**null**) is.close();

} **catch** (Exception e) {}

}//try-catch-finally

}

}

}

**(MAllViewService.java)**

**public** **class** MAllViewService **implements** MService {

@Override

**public** **void** execute(HttpServletRequest request, HttpServletResponse response) {

// pageNum받고, startRow, endRow 계산해서

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

**if**(pageNum==**null**) pageNum = "1";

**int** currentPage = Integer.*parseInt*(pageNum);

**final** **int** PAGESIZE = 3, BLOCKSIZE=5;

**int** startRow = (currentPage-1)\*PAGESIZE +1;

**int** endRow = startRow + PAGESIZE -1;

// dao의 list(startRow, endRow) 실행결과를 request.setAttribute

MemberDao mDao = MemberDao.*getInstance*();

ArrayList<MemberDto> members = mDao.allMember(startRow, endRow);

request.setAttribute("mAllView", members);

// totCnt, pageCnt, startPage, endPage, BLOCKSIZE, pageNum

// => request.setAttribute

**int** totCnt = mDao.getMemberTotCnt();

**int** pageCnt = (**int**)Math.*ceil*((**double**)totCnt/PAGESIZE);

**int** startPage = ((currentPage-1)/BLOCKSIZE)\*BLOCKSIZE +1;

**int** endPage = startPage + BLOCKSIZE -1 ;

**if**(endPage > pageCnt) {

endPage = pageCnt;

}

request.setAttribute("pageCnt", pageCnt);

request.setAttribute("startPage", startPage);

request.setAttribute("endPage", endPage);

request.setAttribute("BLOCKSIZE", BLOCKSIZE);

request.setAttribute("pageNum", currentPage);

}

}

**(MAllViewService.java)**

**public** **class** MWithdrawalService **implements** Service {

@Override

**public** **void** execute(HttpServletRequest request, HttpServletResponse response) {

HttpSession session = request.getSession();

String mid = **null**;

MemberDto sessionMember = (MemberDto)session.getAttribute("member");

**if**(sessionMember!=**null**) {

mid = sessionMember.getMid();

}

System.***out***.println(mid+"가 회원탈퇴한다");

MemberDao mDao = MemberDao.*getInstance*();

**int** result = mDao.withdrawal(mid);

**if**(result == MemberDao.***SUCCESS***) {

request.setAttribute("withdrawalResult", "회원탈퇴가 성공되었습니다");

}**else** {

request.setAttribute("withdrawalResult", "로그인이 되어 있지 않습니다");

}

mDao.withdrawal(mid);

session.invalidate();

}

}

1. View단

**(daoTest.jsp)**

<%@page import=*"java.util.ArrayList"*%>

<%@page import=*"com.lec.ex.dto.MemberDto"*%>

<%@page import=*"com.lec.ex.dao.MemberDao"*%>

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

pageEncoding=*"UTF-8"*%>

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

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

<c:set var=*"conPath"* value=*"*${pageContext.request.contextPath }*"*/>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Insert title here</title>

<link href=*"*${conPath }*/css/style.css"* rel=*"stylesheet"*>

</head>

<body>

<%

MemberDao dao = MemberDao.getInstance();

out.println("<h3>1.회원id중복체크</h3>");

**if**(MemberDao.EXISTENT == dao.midConfirm("bbb")){

out.println("bbb는 중복된 ID");

}**else** **if**(MemberDao.NONEXISTENT == dao.midConfirm("bbb")){

out.println("bbb는 사용가능한 ID");

}

out.println("<h3>2.회원가입</h3>");

**int** result = dao.joinMember(**new** MemberDto("eee","1","홍길",**null**,"NOIMG.JPG",**null**, **null**,**null**));

**if**(result == MemberDao.SUCCESS){

out.println("회원가입 성공");

}**else** **if**(result == MemberDao.FAIL){

out.println("회원가입 실패");

}

out.println("<h3>3.로그인</h3>");

result = dao.loginCheck("aaa", "1");

**if**(result == MemberDao.LOGIN\_SUCCESS){

out.println("<p>aaa-1 로그인성공</p>");

}

result = dao.loginCheck("aaa", "9");

**if**(result == MemberDao.FAIL){

out.println("<p>aaa - 9 로그인실패</p>");

}

out.println("<h3>4.mid로 dto가져오기</h3>");

MemberDto member = dao.getMember("aaa");

out.println("<p>"+member+"</p>");

out.println("<h3>5.정보 수정</h3>");

result = dao.modifyMember(**new** MemberDto("aaa","1","이몽룡","lee@h.com","NOIMG.JPG",**null**, "남원",**null**));

**if**(result == MemberDao.SUCCESS){

out.println("회원수정 성공 : " + dao.getMember("aaa"));

}**else** **if**(result == MemberDao.FAIL){

out.println("회원수정 실패");

}

out.println("<h3>6.회원리스트(최신 가입일 순 4등~6등)</h3>");

ArrayList<MemberDto> members = dao.allMember(4, 6);

**for**(MemberDto m : members){

out.println(m + "<hr>");

}

out.println("<h3>7. 회원수 : "+dao.getMemberTotCnt()+"</h3>");

%>

</body>

</html>

**(index.jsp)**

<body>

<%response.sendRedirect("main.do"); %>

</body>

**(join.jsp)**

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

pageEncoding=*"UTF-8"*%>

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

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

<c:set var=*"conPath"* value=*"*${pageContext.request.contextPath }*"*/>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Insert title here</title>

<style>

**h1,** **p**{text-align: *center*;}

**p**{margin-top: *30px*;}

</style>

</head>

<body>

<form action=*"*${conPath }*/join.do"* method=*"post"* enctype=*"multipart/form-data"*>

<table>

<caption>회원가입</caption>

<tr><th>아이디</th><td><input type=*"text"* name=*"mid"* required=*"required"*></td></tr>

<tr><th>비밀번호</th><td><input type=*"password"* name=*"mpw"* required=*"required"*></td></tr>

<tr><th>이름</th><td><input type=*"text"* name=*"mname"* required=*"required"*></td></tr>

<tr><th>메일</th><td><input type=*"email"* name=*"memail"*></td></tr>

<tr><th>사진</th><td><input type=*"file"* name=*"mphoto"*></td></tr>

<tr><th>생년월일</th><td><input type=*"date"* name=*"mbirth"*></td></tr>

<tr><th>주소</th><td><input type=*"text"* name=*"maddress"*></td></tr>

<tr>

<td colspan=*"2"*>

<p>

<input type=*"submit"* value=*"가입"*>

<input type=*"button"* value=*"로그인"* onclick=*"location='*${conPath}*/loginView.do'"*>

</p>

</td>

</tr>

</table>

</form>

</body>

</html>

**(login.jsp)**

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

pageEncoding=*"UTF-8"*%>

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

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

<c:set var=*"conPath"* value=*"*${pageContext.request.contextPath }*"*/>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Insert title here</title>

<style>

**h1,** **p**{text-align: *center*;}

**p**{margin-top: *30px*;}

</style>

</head>

<body>

<c:if test=*"*${**not empty** joinResult}*"*>

<script>

alert('${joinResult}');

</script>

</c:if>

<c:if test=*"*${**not empty** joinErrorMsg}*"*>

<script>

alert('${joinErrorMsg}');

history.back();

</script>

</c:if>

<form action=*"*${conPath }*/login.do"* method=*"post"*>

<table>

<tr>

<th>ID</th><td><input type=*"text"* name=*"mid"* value=*"*${mid }*"* required=*"required"*></td>

</tr>

<tr>

<th>PW</th><td><input type=*"password"* name=*"mpw"* required=*"required"*></td>

</tr>

<tr>

<td colspan=*"2"*>

<p>

<input type=*"submit"* value=*"로그인"*>

<input type=*"button"* value=*"회원가입"* onclick=*"location='*${conPath}*/joinView.do'"*>

</p>

</td>

</tr>

</table>

</form>

</body>

</html>

**(main.jsp)**

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

pageEncoding=*"UTF-8"*%>

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

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

<c:set var=*"conPath"* value=*"*${pageContext.request.contextPath }*"*/>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Insert title here</title>

<style>

**h1,** **p**{text-align: *center*;}

**p**{margin-top: *30px*;}

</style>

</head>

<body>

<c:if test=*"*${**not empty** loginErrorMsg }*"*>

<script>

alert('${loginErrorMsg}');

history.back();

//location.href = '${conPath }/loginView.do';

</script>

</c:if>

<c:if test=*"*${**not empty** modifyResult }*"*>

<script>

alert('${modifyResult}');

</script>

</c:if>

<c:if test=*"*${**not empty** withdrawalResult }*"*>

<script>

alert('${withdrawalResult}');

</script>

</c:if>

<c:if test=*"*${**empty** member }*"*> <!-- 로그인 전 화면 -->

<h1>로그인 상태가 아닙니다</h1>

<hr>

<p>

<button onclick=*"location.href='*${conPath}*/loginView.do'"*>로그인</button>

<button onclick=*"location.href='*${conPath}*/joinView.do'"*>회원가입</button>

<button onclick=*"location.href='*${conPath}*/allView.do'"*>전체회원보기</button>

</p>

</c:if>

<c:if test=*"*${**not empty** member }*"*><!-- 로그인 후 화면 -->

<h1>${member.mname }(${member.mid })님 어서오세요</h1>

<hr>

<p>

<button onclick=*"location.href='*${conPath}*/modifyView.do'"*>정보수정</button>

<button onclick=*"location.href='*${conPath}*/logout.do'"*>로그아웃</button>

<button onclick=*"location.href='*${conPath}*/allView.do'"*>전체회원보기</button>

</p>

</c:if>

</body>

</html>

**(modify.jsp)**

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

pageEncoding=*"UTF-8"*%>

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

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

<c:set var=*"conPath"* value=*"*${pageContext.request.contextPath }*"*/>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Insert title here</title>

<style>

**h1,** **p**{text-align: *center*;}

**p**{margin-top: *30px*;}

</style>

</head>

<body>

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

<script>location.href="${conPath}/loginView.do";</script>

</c:if>

<form action=*"*${conPath }*/modify.do"* method=*"post"* enctype=*"multipart/form-data"*>

<input type=*"hidden"* name=*"dbMphoto"* value=*"*${member.mphoto }*"*>

<input type=*"hidden"* name=*"dbMpw"* value=*"*${member.mpw }*"*>

<table>

<caption>회원가입</caption>

<tr>

<th>아이디</th>

<td>

<input type=*"text"* name=*"mid"* value=*"*${member.mid }*"* readonly=*"readonly"* size=*"3"*>

</td>

<td rowspan=*"4"*>

<img src=*"*${conPath }*/memberPhotoUp/*${member.mphoto }*"*>

</td>

</tr>

<tr>

<th>현비밀번호</th>

<td><input type=*"password"* name=*"oldMpw"* required=*"required"* value=*"*${member.mpw }*"* size=*"3"*></td>

</tr>

<tr>

<th>새비밀번호</th>

<td><input type=*"password"* name=*"mpw"* size=*"3"*></td>

</tr>

<tr>

<th>이름</th>

<td><input type=*"text"* name=*"mname"* required=*"required"* value=*"*${member.mname }*"* size=*"3"*></td>

</tr>

<tr>

<th>메일</th>

<td colspan=*"2"*><input type=*"email"* name=*"memail"* value=*"*${member.memail }*"*></td>

</tr>

<tr>

<th>사진</th>

<td colspan=*"2"*><input type=*"file"* name=*"mphoto"*></td>

</tr>

<tr>

<th>생년월일</th>

<td colspan=*"2"*><input type=*"date"* name=*"mbirth"* value=*"*${member.mbirth }*"*></td>

</tr>

<tr>

<th>주소</th>

<td colspan=*"2"*><input type=*"text"* name=*"maddress"* value=*"*${member.maddress }*"*></td>

</tr>

<tr>

<td colspan=*"3"*>

<input type=*"submit"* value=*"정보수정"*>

<input type=*"reset"* value=*"초기화"*>

<input type=*"reset"* value=*"이전"* onclick="history.go(-1)">

<input type=*"button"* value=*"회원탈퇴"* onclick=*"location='*${conPath}*/withdrawal.do'"*>

</td>

</tr>

</table>

</form>

</body>

</html>

**(mAllView.jsp)**

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

pageEncoding=*"UTF-8"*%>

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

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

<c:set var=*"conPath"* value=*"*${pageContext.request.contextPath }*"*/>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Insert title here</title>

<style>

**p**{text-align: *center*;}

**a**{text-decoration: *none*;}

</style>

</head>

<body>

<table>

<caption>전체회원보기</caption>

<tr>

<c:forEach var=*"dto"* items=*"*${mAllView }*"*>

<td>

<img src=*"*${conPath }*/memberPhotoUp/*${dto.mphoto}*"* alt=*"사진"* width=*"120"*><br>

<p>

${dto.mname }<br>

(${dto.mid })

</p>

</td>

</c:forEach>

</tr>

</table>

<div class=*"paging"*>

<a href=*"*${conPath }*/allView.do?pageNum=1"*>&lt;&lt;</a>

&nbsp; &nbsp; &nbsp;

<c:if test=*"*${startPage>BLOCKSIZE }*"*>

<a href=*"*${conPath }*/allView.do?pageNum=*${startPage-1}*"*>&lt;</a>

</c:if>

<c:if test=*"*${startPage<=BLOCKSIZE }*"*>

&lt;

</c:if>

&nbsp; &nbsp; &nbsp;

<c:forEach var=*"i"* begin=*"*${startPage }*"* end=*"*${endPage }*"*>

<c:if test=*"*${i == pageNum }*"*>

[ <b>${i }</b> ]

</c:if>

<c:if test=*"*${i != pageNum }*"*>

[ <a href=*"*${conPath }*/allView.do?pageNum=*${i}*"*>${i }</a> ]

</c:if>

</c:forEach>

&nbsp; &nbsp; &nbsp;

<c:if test=*"*${endPage < pageCnt }*"*>

<a href=*"*${conPath }*/allView.do?pageNum=*${endPage+1}*"*>&gt;</a>

</c:if>

<c:if test=*"*${endPage == pageCnt }*"*>

&gt;

</c:if>

&nbsp; &nbsp; &nbsp;

<a href=*"*${conPath }*/allView.do?pageNum=*${pageCnt}*"*>&gt;&gt;</a>

</div>

<p><button onclick=*"location.href='*${conPath}*/main.do'"*>MAIN</button></p>

</body>

</html>