



# 서버 프로그램 구현





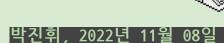




















# 목 차 CONTENTS

- (1) 프로젝트 생성
- (2)화면 구현
- (3) 기능 구현
- (4)실행



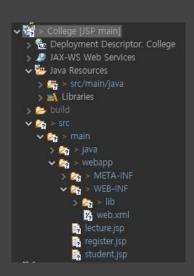
# (1)프로젝트 생성

프로젝트명 : College

Was: Tomcat9

DB : java1\_college

개발도구 : Eclipse, Workbench





## (2)화면 구현에 필요한 파일 생성

```
package JDBC;
import java.sql.Connection:
public class JDBC {
   private static JDBC instance = new JDBC():
  public static JDBC getInstance() {
     return instance;
   private JDBC(){}
   private final String HOST = "jdbc:mysql://127.0.0.1:3306/java1_college":
   private final String USER = "root";
   private final String PASS = "1234";
   public Connection getConnetction() throws Exception {
     Class.forName("com.mysql.cj.jdbc.Driver");
     return DriverManager.getConnection(HOST, USER, PASS);
```



#### (2)화면 구현에 필요한 파일 생성

```
private String stdNo:
private String regStdNo:
                                                                                  private String stdName:
                                     private String lecName:
private int reaLecNo:
                                                                                  private String stdHp:
                                     private int lecCredit:
private int regMidScore:
                                                                                  private int stdYear:
                                     private int lecTime:
private int regFlnalScore;
                                                                                  private String stdAddress:
                                     private String lecClass:
private int regTotalScore:
private String regGrade;
                                                                                  public String getStdNo() {
                                     public int getLecNo() {
                                                                                    return stdNo:
                                       return lecNo:
private String lecName:
private String stdName:
                                                                                  public void setStdNo(String stdNo) {
                                     public void setLecNo(int lecNo) {
                                                                                    this.stdNo = stdNo:
                                       this.lecNo = lecNo:
public String getLecName() {
  return lecName:
                                     public String getLecName() {
                                                                                  public String getStdName() {
                                                                                    return stdName:
public void setLecName(String lecN )
                                     public void setLecName(String lecName) {
                                                                                  public void setStdName(String stdName) {
  this.lecName = lecName:
                                       this.lecName = lecName;
                                                                                    this.stdName = stdName;
public String getStdName() {
                                     public int getLecCredit() {
                                                                                  public String getStdHp() {
  return stdName:
                                       return lecCredit:
                                                                                    return stdHp;
                                     public void setLecCredit(int lecCredit) {
                                                                                  public void setStdHp(String stdHp) {
  this stdName = stdName:
                                       this.lecCredit = lecCredit:
                                                                                    this.stdHp = stdHp;
public String getRegStdNo() {
                                     public int getLecTime() {
                                                                                  public int getStdYear() {
  return regStdNo:
                                       return lecTime:
                                                                                    return stdYear:
                                     public void setLecTime(int lecTime) {
                                                                                  public void setStdYear(int stdYear) {
  this.regStdNo = regStdNo:
                                       this.lecTime = lecTime:
                                                                                    this.stdYear = stdYear:
public int getRegLecNo() {
                                     public String getLecClass() {
                                                                                  public String getStdAddress() {
  return regLecNo:
                                       return lecClass:
                                                                                    return stdAddress:
public void setStdAddress(String stdAddress) {
                                       this.lecClass = lecClass:
  this.regLecNo = regLecNo;
                                                                                    this.stdAddress = stdAddress;
```



# (2)화면 구현\_강좌목록

```
<!DOCTYPE html>
c%@ page contentType="text/html;charset=UTF-8" pageEncoding="UTF-8"%>
1 <%
    request.setCharacterEncoding("UTF-8");
                                                                       <meta charset="//TF-8">
                                                                       <title>강좌관리</title>
    List<LectureBean> lectures = new ArrayList<>();
                                                                       (h3) 강좌관리(/h3)
    try{
                                                                       <a href="/College/lecture.jsp">강좌관리</a>
        Connection conn = JDBC.getInstance().getConnetction();
                                                                       <a href="/College/register.jsp">수강관리</a>
        String sql = "select * from `lecture`";
                                                                       <a href="/College/student.jsp">학생관리</a>
        PreparedStatement psmt = conn.prepareStatement(sql);
                                                                       <h4>강좌현황</h4>
                                                                       <button>등록</button>
        ResultSet rs = psmt.executeQuery();
                                                                       while(rs.next()){
           LectureBean lecture = new LectureBean();
                                                                               번호
           lecture.setLecNo(rs.getInt(1));
                                                                               (th)강좌명(/th)
                                                                               항점
           lecture.setLecName(rs.getString(2));
                                                                               시간
           lecture.setLecCredit(rs.getInt(3));
                                                                               강의장
           lecture.setLecTime(rs.getInt(4));
           lecture.setLecClass(rs.getString(5));
                                                                           <% for(LectureBean lecture : lectures) { %>
           lectures.add(lecture);
                                                                               <%= lecture.getLecNo() %>
                                                                               <%= lecture.getLecName() %>
       rs.close();
                                                                               <%= lecture.getLecCredit() %>
        psmt.close();
                                                                               <%= lecture.getLecTime() %>
        conn.close();
                                                                               <%= lecture.getLecClass() %>
    }catch(Exception e){
                                                                           <% } %>
        e.printStackTrace();
%>
```



## (2)화면 구현\_수강목록

```
<!DOCTYPE html>
 <%@ page contentType="text/html:charset=UTF-8" pageEncoding="UTF-8"%>
1 <%
    request.setCharacterEncoding("UTF-8");
                                                                                     <meta charset="UTF-8">
                                                                                     <title>수강관리</title>
    List<RegisterBean> registers = new ArrayList<>();
                                                                                     <h3>수강관리</h3>
    tryf
                                                                                     <a href="/College/lecture.jsp">강좌관리</a>
                                                                                     <a href="/College/register.jsp">수강관리</a>
        Connection conn = JDBC.getInstance().getConnetction();
                                                                                     <a href="/College/student.isp">학생관리</a>
        String sql = "SELECT a.*,b. lecName',c. stdName' FROM 'register' AS a ";
                                                                                     <h4>수강현황</h4>
               sql += "JOIN `lecture` AS b ON a.regLecNo = b.lecNo ";
                                                                                     <input type="search" value="검색">
              sql += "JOIN `student` AS c ON a.regStdNo = c.stdNo";
                                                                                     <button>검색</button>
        PreparedStatement psmt = conn.prepareStatement(sql);
                                                                                     <button>수강신청</button>
                                                                                     ResultSet rs = psmt.executeOuery();
        while(rs.next()){
                                                                                            학번
            RegisterBean register = new RegisterBean():
                                                                                            이름
            register.setRegStdNo(rs.getString(1));
                                                                                            강좌명
                                                                                            강좌코드
            register.setRegLecNo(rs.getInt(2));
                                                                                            중간시험
            register.setRegMidScore(rs.getInt(3));
                                                                                            기말시험
            register.setRegFInalScore(rs.getInt(4));
                                                                                            총점
            register.setRegTotalScore(rs.getInt(5));
                                                                                            등급
            register.setRegGrade(rs.getString(6));
                                                                                        <% for(RegisterBean register : registers) { %>
            register.setLecName(rs.getString(7));
            register.setStdName(rs.getString(8));
                                                                                            <%=register.getRegStdNo() %>
                                                                                            <%=register.getStdName() %>
            registers.add(register);
                                                                                            <\td><\\=register.getLecName() %>
                                                                                            <\td><\text{*=register.getRegLecNo() %>
        rs.close():
                                                                                            <%=register.getRegMidScore() %>
        psmt.close();
                                                                                            <%=register.getRegFInalScore() %>
        conn.close();
                                                                                            <\td><\%=register.getRegTotalScore() %>
                                                                                            <%=register.getRegGrade() %>
    }catch(Exception e){
        e.printStackTrace();
                                                                                        <% } %>
 %>
```



## (2)화면 구현\_학생목록

```
<%@ page contentType="text/html;charset=UTF-8" pageEncoding="UTF-8"%> <!DOCTYPE html>
<%
   request.setCharacterEncoding("UTF-8");
                                                                         <meta charset="//TF-8">
                                                                        <title>학생관리</title>
   List<StudentBean> students = new ArrayList<>();
                                                                         <h3>학생관리</h3>
   tryf
                                                                         <a href="/College/lecture.jsp">강좌관리</a>
       Connection conn = JDBC.getInstance().getConnetction();
                                                                         <a href="/College/register.jsp">수강관리</a>
       String sql = "select * from `student`";
                                                                         <a href="/College/student.jsp">학생관리</a>
       PreparedStatement psmt = conn.prepareStatement(sql);
                                                                         <h4>학생목록</h4>
                                                                         <button>등록</button>
       ResultSet rs = psmt.executeQuery();
                                                                         while(rs.next()){
           StudentBean student = new StudentBean():
                                                                               학번
           student.setStdNo(rs.getString(1));
                                                                               이름
           student.setStdName(rs.getString(2));
                                                                               휴대폰
                                                                               한년
           student.setStdHp(rs.getString(3));
                                                                               > 주소
           student.setStdYear(rs.getInt(4));
           student.setStdAddress(rs.getString(5));
                                                                            <% for(StudentBean student : students) { %>
           students.add(student);
                                                                               <%=student.getStdNo() %>
                                                                               <%=student.getStdName() %>
       rs.close();
                                                                               <\td><\\text{d} > <\text{\text{d}} > 
       psmt.close();
                                                                               <%=student.getStdYear() %>
       conn.close();
                                                                               <\td><%=student.getStdAddress() %>
   }catch(Exception e){
                                                                            <% } %>
       e.printStackTrace();
%>
```



# (2)화면 구현\_강좌목록

