

# 서버 프로그램 구현

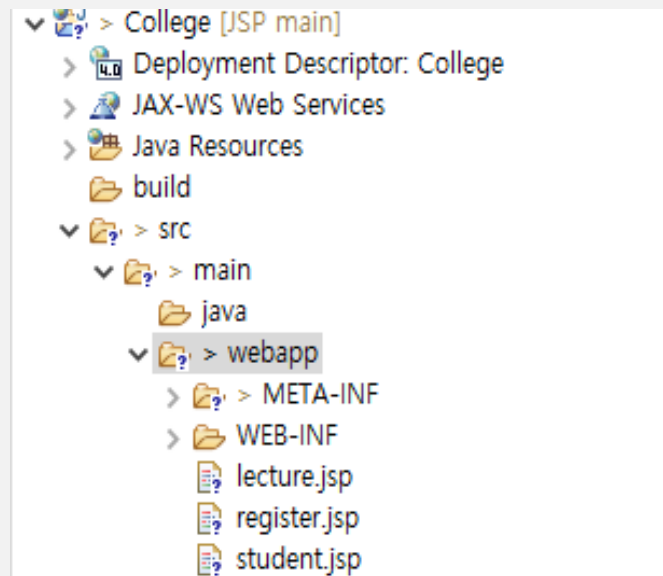
2022/11/08

임민지

# 목 차

- 1. 프로젝트 생성 및 구성
- 2. 화면 구현
- 3. 기능 구현
- 4. 실행

## 문제 1. 프로젝트 생성 및 구성



프로젝트 명 : College

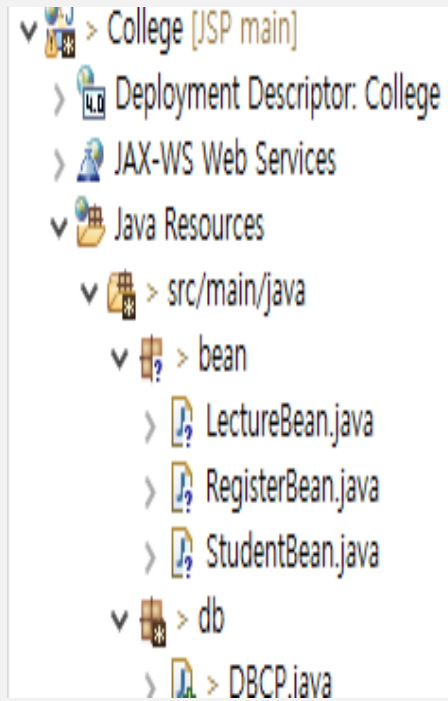
WAS: Tomcat 9

DB: java1\_college

개발 도구: Eclipse, Workbench

java1_college	48.0 KiB
lecture	16.0 KiB
register	16.0 KiB
student	16.0 KiB

## 문제 2. 화면 구현 & 문제 3. 기능 구현



Project Structure:

- College [JSP main]
  - Deployment Descriptor: College
  - JAX-WS Web Services
  - Java Resources
    - src/main/java
      - bean
        - LectureBean.java
        - RegisterBean.java
        - StudentBean.java
      - db
        - DBCP.java

Bean 사용

DBCP 사용

# 문제 2-1 & 3-1

## LECTURE(강좌) 목록, 등록 화면 구현

```
<%@page import="db.DBCP"%>
<%@page import="java.util.ArrayList"%>
<%@page import="java.util.List"%>
<%@page import="bean.LectureBean"%>
<%@page import="java.sql.ResultSet"%>
<%@page import="java.sql.Statement"%>
<%@page import="java.sql.Connection"%>
<%@ page contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
<%
    List<LectureBean> lectures = new ArrayList<>();
    try{
        Connection conn = DBCP.getConnection();
        Statement stmt = conn.createStatement();
        ResultSet rs = stmt.executeQuery("select * from 'lecture'");

        while(rs.next()){
            LectureBean lb = new LectureBean();
            lb.setLecNo(rs.getInt(1));
            lb.setLecName(rs.getString(2));
            lb.setLecCredit(rs.getInt(3));
            lb.setLecTime(rs.getInt(4));
            lb.setLecClass(rs.getString(5));

            lectures.add(lb);
        }
        rs.close();
        stmt.close();
        conn.close();
    }catch(Exception e){
        e.printStackTrace();
    }
%>
<!DOCTYPE html>
<html>
<head>
    <meta charset="UTF-8">
    <title>Insert title here</title>
</head>
<body>
    <h3>강좌관리</h3>
    <a href="/Lecture.jsp">강좌관리</a>
    <a href="/register.jsp">수강관리</a>
    <a href="/student.jsp">학생관리</a>

    <h4>강좌현황</h4>

    <button>등록</button>
    <table border="1">
        <tr>
            <th>번호</th>
            <th>강좌명</th>
            <th>학점</th>
            <th>시간</th>
            <th>강의장</th>
        </tr>

        <% for(LectureBean lb : lectures){ %>
        <tr>
            <td><%= lb.getLecNo() %></td>
            <td><%= lb.getLecName() %></td>
            <td><%= lb.getLecCredit() %></td>
            <td><%= lb.getLecTime() %></td>
            <td><%= lb.getLecClass() %></td>
        </tr>
        <% } %>
    </table>

    <h4>강좌등록</h4>

    <button>닫기</button>
```

```
<table border="1">
    <tr>
        <td>번호</td>
        <td><input type="text"/></td>
    </tr>
    <tr>
        <td>강좌명</td>
        <td><input type="text"/></td>
    </tr>
    <tr>
        <td>학점</td>
        <td><input type="text"/></td>
    </tr>
    <tr>
        <td>시간</td>
        <td><input type="text"/></td>
    </tr>
    <tr>
        <td>강의장</td>
        <td><input type="text"/></td>
    </tr>

    <tr>
        <td colspan="2" align="right"><input type="submit" value="추가"/></td>
    </tr>
</table>

</body>
</html>
```

### 강좌관리

[강좌관리](#) [수강관리](#) [학생관리](#)

### 강좌현황

등록				
번호	강좌명	학점	시간	강의장
159	인지행동심리학	3	40	본304
167	운영체제론	3	25	본805
234	중급 영문법	3	20	본201
239	세법개론	3	40	본204
248	빅데이터이론	3	20	본601
253	컴퓨팅사고와코딩	2	10	본602
349	사회복지마케팅	2	50	본301

### 강좌등록

닫기	
번호	<input type="text"/>
강좌명	<input type="text"/>
학점	<input type="text"/>
시간	<input type="text"/>
강의장	<input type="text"/>
	<input type="button" value="추가"/>

## 문제 2-2&3-2

## REGISTER(수강) 목록, 등록 화면 구현

```

import=mem.registerBean(s);
<page> import=<"java.sql.ResultSet">;
</page> import=<"java.sql.ResultSet">;
<page> import=<"java.sql.Statement">;
</page> import=<"java.sql.Connection">;
<page> import=<"java.util.ArrayList">;
</page> import=<"java.util.List">;
<page> contentType=<"text/html;charset=UTF-8"> pageEncoding=<"UTF-8">;
%
}

List<RegisterBean> registers = new ArrayList<>();
try{
    Connection conn = DBCP.getConnection();
    Statement stmt = conn.createStatement();
    ResultSet rs = stmt.executeQuery("select * from 'register'");

    while(rs.next()){
        RegisterBean rb = new RegisterBean();
        rb.setRegidno(rs.getInt(1));
        rb.setRegidno(rs.getInt(2));
        rb.setRegidno(rs.getInt(3));
        rb.setRegidno(rs.getInt(4));
        rb.setRegidno(rs.getString(5));

        registers.add(rb);
    }

    rs.close();
    stmt.close();
    conn.close();

}catch(Exception e){
    e.printStackTrace();
}

%DOCTYPE html>
<html>
<head>
    <meta charset="UTF-8">
    <title>Insert title here</title>
</head>
<body>
    <div>공통화</div>
    <a href="/lecture.jsp">공통화</a>
    <a href="/register.jsp">공통화</a>
    <a href="/student.jsp">학생관리</a>

    <div>공통화</div>
    <br>
    <div>20201016</div>
    </br>
    <button>공통</button>
    <button>공통</button>

    <table border="1">
        <tr>
            <th>학번</th>
            <th>이름</th>
            <th>전화번호</th>
            <th>출생년도</th>
            <th>졸업시점</th>
            <th>기말시험</th>
            <th>출결</th>
            <th>출결</th>
        </tr>
        <tr>
            <td>20201016</td>
            <td>김유정</td>
            <td>학번이름</td>
            <td>24</td>
            <td>92</td>
            <td>9</td>
            <td>9</td>
            <td>9</td>
        </tr>
        <tr>
            <td>20201016</td>
            <td>김유정</td>
            <td>출생연도</td>
            <td>25</td>
            <td>2</td>
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        </tr>
        <tr>
            <td>20201016</td>
            <td>김유정</td>
            <td>출생연도</td>
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        </tr>
        <tr>
            <td>20201016</td>
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        </tr>
        <tr>
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            <td>9</td>
        </tr>
        <tr>
            <td>20201016</td>
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        </tr>
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        </tr>
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        </tr>
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            <td>40</td>
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            <td>9</td>
        </tr>
        <tr>
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            <td>9</td>
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            <td>김유정</td>
            <td>출생연도</td>
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            <td>2</td>
            <td>40</td>
            <td>6</td>
            <td>9</td>
        </tr>
        <tr>
            <td>20201016</td>
            <td>김유정</td>
            <td>출생연도</td>
            <td>25</td>
            <td>2</td>
            <td>40</td>
            <td>6</td>
            <td>9</td>
        </tr>
        <tr>
            <td>20201016</td>
            <td>김유정</td>
            <td>출생연도</td>
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            <td>9</td>
        </tr>
        <tr>
            <td>20201016</td>
            <td>김유정</td>
            <td>출생연도</td>
            <td>25</td>
            <td>2</td>
            <td>40</td>
            <td>6</td>
            <td>9</td>
        </tr>
        <tr>
            <td>20201016</td>
            <td>김유정</td>
            <td>출생연도</td>
            <td>25</td>
            <td>2</td>
            <td>40</td>
            <td>6</td>
            <td>9</td>
        </tr>
        <tr>
            <td>20201016</td>
            <td>김유정</td>
            <td>출생연도</td>
            <td>25</td>
            <td>2</td>
            <td>40</td>
            <td>6</td>
            <td>9</td>
        </tr>
        <tr>
            <td>20201016</td>
            <td>김유정</td>
            <td>출생연도</td>
            <td>25</td>
            <td>2</td>
            <td>40</td>
            <td>6</td>
            <td>9</td>
        </tr>
        <tr>
            <td>20201016</td>
            <td>김유정</td>
            <td>출생연도</td>
            <td>25</td>
            <td>2</td>
            <td>40</td>
            <td>6</td>
            <td>9</td>
        </tr>
        <tr>
            <td
```

```

</tr>
<tr>
<td><%= rb.getRegStdHo() %></td>
<td><%= rb.getRegStdHo() %></td>
<td><%= rb.getRegStdScore() %></td>
<td><%= rb.getRegFinalScore() %></td>
<td><%= rb.getRegGrade() %></td>
</tr>
<tr>
<td colspan="5"></td>
</tr>
</table>

<h4>수강신청</h4>

<button>닫기</button>

<table border="1">
<tr>
<td>학번</td>
<td><input type="text"/></td>
</tr>
<tr>
<td>이름</td>
<td><input type="text"/></td>
</tr>
<tr>
<td>신청 강좌</td>
<td><input type="text"/></td>
</tr>
<tr>
<td colspan="2"><input type="submit" value="입생"/></td>
</tr>
</table>
</body>
</html>

```

## 수강관리

강좌관리 수강관리 학생관리

## 수강현황

20201016

학번	이름	강좌명	강좌코드	중간시험	기말시험	총점	등급
20201016	김유신	빅데이터개론	248	24	62	86	B
20201016	김유신	컴퓨터사고와 코딩	253	28	40	68	D
20201016	김유신	운영체제론	167	18	38	56	F
20201126	234	36	42	null			
20201016	248	24	62	null			
20201016	253	28	40	null			
20201126	239	37	57	null			
20210216	349	28	68	null			
20210326	349	16	65	null			
20201016	167	18	38	null			
20220416	349	25	52	null			

## 수강신청

단기	
학번	
이름	
신청강좌	강좌선택
신청	

# 문제 2-3&3-3

## STUDENT(강좌) 목록, 등록 화면 구현

```
<%page import="java.sql.Statement"%>
<%page import="java.util.List"%>
<%page import="java.sql.ResultSet"%>
<%page import="bean.StudentBean"%>
<%page import="java.util.ArrayList"%>
<%page import="db.DBCP"%>
<%page import="java.sql.Connection"%>
<% page contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
<%
    List<StudentBean> students = new ArrayList<>();
    try{
        Connection conn = DBCP.getConnection();
        Statement stmt = conn.createStatement();
        ResultSet rs = stmt.executeQuery("select * from `student`");

        while(rs.next()){
            StudentBean sb = new StudentBean();
            sb.setStdNo(rs.getString(1));
            sb.setStdName(rs.getString(2));
            sb.setStdHp(rs.getString(3));
            sb.setStdYear(rs.getInt(4));
            sb.setStdAddress(rs.getString(5));

            students.add(sb);
        }

        rs.close();
        stmt.close();
        conn.close();
    }catch(Exception e){
        e.printStackTrace();
    }
%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.1/jquery.min.js"></script>
<script>
    $(function(){
        $('#.btnClick').click(function(){
            let stdNo = $(this).val();
            let stdName = $(this).val();
            let stdHp = $(this).val();
            let stdYear = $(this).val();
            let stdAddress = $(this).val();

        });
    });
</script>
</head>
<body>
<h3>학생관리</h3>
<a href="/Lecture.jsp">강좌관리</a>
<a href="/register.jsp">수강관리</a>
<a href="/student.jsp">학생관리</a>
<h4>학생등록</h4>
<button>등록</button>
<table border="2">
    <tr>
        <td>학번</td>
        <td>이름</td>
        <td>휴대폰</td>
        <td>학년</td>
        <td>주소</td>
    </tr>
</table>
<% for(StudentBean sb : students){ %>
<tr>
    <td><%= sb.getStdNo() %></td>
    <td><%= sb.getStdName() %></td>
    <td><%= sb.getStdHp() %></td>
    <td><%= sb.getStdYear() %></td>
    <td><%= sb.getStdAddress() %></td>
</tr>
<% } %>
</table>
<h4>학생등록</h4>
<button>등록</button>
<table border="2">
    <tr>
        <td>학번</td>
        <td><input type="text" name="stdNo"/></td>
    </tr>
    <tr>
        <td>이름</td>
        <td><input type="text" name="stdName"/></td>
    </tr>
    <tr>
        <td>휴대폰</td>
        <td><input type="text" name="stdHp"/></td>
    </tr>
    <tr>
        <td>학년</td>
        <td><input type="text" name="stdYear"/></td>
    </tr>
    <tr>
        <td>주소</td>
        <td><input type="text" name="stdAddress"/></td>
    </tr>
</table>
</body>
</html>
```

```
</tr>
<tr>
    <td>휴대폰</td>
    <td><input type="text" name="stdHp"/></td>
</tr>
<tr>
    <td>학년</td>
    <td><input type="text" name="stdYear"/></td>
</tr>
<tr>
    <td>주소</td>
    <td><input type="text" name="stdAddress"/></td>
</tr>
<tr>
    <td colspan="2" align="right"><input type="submit" class="btnClick" value="등록"/></td>
</tr>
</table>
</body>
</html>
```

### 학생관리

[강좌관리](#) [수강관리](#) [학생관리](#)

### 학생목록

등록				
학번	이름	휴대폰	학년	주소
20201016	김유신	010-1234-1001	3	null
20201126	김춘추	010-1234-1002	2	경상남도 경주시
20210216	장보고	010-1234-1003	2	전라남도 완도시
20210326	강감찬	010-1234-1004	1	서울시 영등포구
20220416	이순신	010-1234-1005	1	부산시 부산진구
20220521	송상현	010-1234-1006	1	부산시 동래구

### 학생등록

달기	
학번	<input type="text"/>
이름	<input type="text"/>
휴대폰	<input type="text"/>
학년	<input type="text"/>
주소	<input type="text"/>
<input type="button" value="등록"/>	

