

홍민준

导郊



⊙ 문제 2번. 화면 구현

⊙ 문제 3번. 기능 구현

⊙ 문제 4번. 실행

○ 1 - 프로젝트 생성 및 구성

⊙ 프로젝트 구조

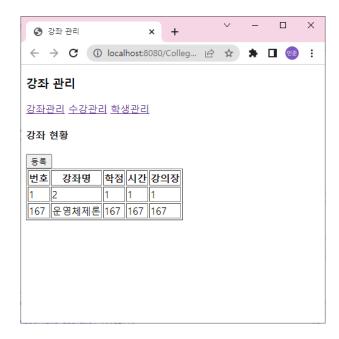
- > College [JSP main]
 > Deployment Descriptor: College
 - > A JAX-WS Web Services
 - > 🅦 Java Resources
 - > 📂 build
 - - 🗸 🔄 > main
 - > 🔄 > java
 - 🗸 📴 > webapp
 - > 📴 > js
 - > 🚁 > json
 - > 📴 > META-INF
 - > 🚉 > WEB-INF
 - lecture.jsp
 - 📑 register.jsp
 - student.jsp

⊙ 개발도구

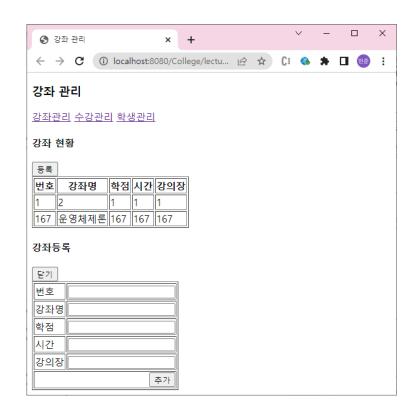


Q 2 - Lecture 화면 구현

⊙ Lecture 목록



⊙ Lecture 등록



Q2-register 화면구현

⊙ register 목록

⊙ register 등록



Q 2 - student 화면 구현

o student 목록

⊙ student 등록



- Lecture 기능 구현

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Lecture 코드

```
1 (%@page import java sql.statement )
 3 <%@page import="java.sql.Connection"%>
 4 <%@page import="config.DBCP"%>
 5 <%@page import="java.util.ArrayList"%>
 6 <%@page import="baen.lectureBean"%>
 7 <%@page import="java.util.List"%>
 8 8  page contentType="text/html;charset=UTF-8" pageEncoding="UTF-8"%>
       List<lectureBean> lectures = new ArrayList<>();
12
13
14
           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(1));
               lb.setLecTime(rs.getInt(1));
               lb.setLecClass(rs.getString(1));
               lectures.add(lb);
           rs.close();
           stmt.close();
           conn.close();
       } catch(Exception e){
           e.printStackTrace();
38 %>
39 <!DOCTYPE html>
40⊖ <html>
41⊖
       <head>
42
           <meta charset="UTF-8">
43
           <title>강좌 관리</title>
44
           <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.1/jquery.min.js"></script>
45
           <script src="./js/lecReg.js"></script>
           <script>
                                                                                      122⊖
```

```
51
                                        52
                                        53
                                        54
                                        55
                                        56
                                        57
                                        58
                                        59
                                        60
                                        61
                                        62
                                        63
                                        64
                                        65
                    });
                 });
             });
          </script>
         head>
         ody>
          <h3>강좌 관리</h3>
          <nav>
             <a href='#'>강좌관리</a>
             <a href='./register.jsp'>수강관리</a>
             <a href='./student.jsp'>학생관리</a>
          </nav>
          <h4>강좌 현황</h4>
          <input type='submit' name=register value='==='/>
             번호
                 강좌명
                 학점
                 시간
                 강의장
             <% for(lectureBean lb : lectures){ %>
                 <\td><\fd> \langle 1b.getLecNo() %>
                 <\td><\fu>
                 <\td><\%= lb.getLecCredit() %>
                 <\td><\fuelerance = 1b.getLecTime() %>
                 <%= lb.getLecClass() %>
              <% } %>
          <nav id="lecReg"></nav>
       </body>
134 </html>
```

```
$(function(){
   //lecture 등록
   $(document).on('click', 'input[name=register]', function(e){
       e.preventDefault();
       lecReg();
   });
    //lecture 등록하기(submit)
   $(document).on('click', 'input[name=append]', function(e){
       e.preventDefault();
       let lecNo = $('input[name=lecNo]').val();
       let lecName = $('input[name=lecName]').val();
       let lecCredit = $('input[name=lecCredit]').val();
       let lecTime = $('input[name=lecTime]').val();
       let lecClass = $('input[name=lecClass]').val();
       // JSON 데이터 생성
       let jsonData = {
               "lecNo":lecNo,
               "lecName":lecName,
               "lecCredit":lecCredit,
               "lecTime":lecTime,
               "lecClass":lecClass
       };
       console.log(jsonData);
       // 데이터 전송
                                                                    %>
       $.ajax({
           url:'./json/lectureReg.jsp',
           type: 'post',
                                                        function lecReg()
           data:isonData.
           datatype: 'json',
                                                           $(function(){
           success:function(data){
                                                              $('#lecReg').empty();
               console.log(data);
               if(data.result == 1){
                   alert('데이터 입력 성공');
                   alert('데이터 입력 실패');
                                                                 tags += "";
                                                                 tags += "":
                                                                 tags += "";
                                                                 tags += "";
                                                              $('#lecReg').append(tags);
                                                          });
```

```
<%@page import="com.google.gson.JsonObject"%>
      <%@page import="java.sql.PreparedStatement"%>
      <%@page import="config.DBCP"%>
      <%@page import="java.sql.Connection"%>
      <%@ page contentType="text/html;charset=UTF-8" pageEncoding="UTF-8"%>
          request.setCharacterEncoding("utf-8");
         String lecNo = request.getParameter("lecNo");
         String lecName = request.getParameter("lecName");
         String lecCredit = request.getParameter("lecCredit");
         String lecTime = request.getParameter("lecTime");
         String lecClass = request.getParameter("lecClass");
         int result = 0;
             Connection conn = DBCP.getConnection();
             String sql = "insert into `lecture` values(?,?,?,?,?)";
             PreparedStatement psmt = conn.prepareStatement(sql);
             psmt.setString(1, lecNo);
             psmt.setString(2, lecName);
             psmt.setString(3, lecCredit);
             psmt.setString(4, lecTime);
             psmt.setString(5, lecClass);
             result = psmt.executeUpdate();
             psmt.close();
             conn.close();
          }catch(Exception e){
             e.printStackTrace();
         JsonObject json = new JsonObject();
         json.addProperty("result", result);
         String jsonData = json.toString();
         out.print(jsonData);
$('#lecReg').append("<h4>강좌등록</h4>");
$('#lecReg').append("<input type='submit' name='close' value='닫기'/>");
let tags = "";
  tags += "";
tags += "世享":
   tags += "<input type='text' name='lecNo' />":
   tags += "강좌명";
   tags += "<input type='text' name='lecName' />";
   tags += "학점";
   tags += "<input type='text' name='lecCredit'/>";
   tags += "시간";
   tags += "<input type='text' name='lecTime'/>";
   tags += "강의장";
   tags += "<input type='text' name='lecClass'/>";
   tags += "<input type='submit' name='append' value='추가'/>";
```

Q 3 - register 기능 구현

<%@page import="java.sql.ResultSet"%>

⊙ Register 코드

```
<%@page import="java.sqL.Statement"%>
 @page import="java.sqL.Connection"%>
 <%@page import="config.DBCP"%>
 <%@page import="java.util.ArrayList"%>
 <%@page import="baen.registerList"%>
 <%@page import="java.util.List"%>
 <%@ page contentType="text/html;charset=UTF-8" pageEncoding="UTF-8"%>
∋ <%
     List<registerList> registers = new ArrayList<>();
     try{
         Connection conn = DBCP.getConnection();
         Statement stmt = conn.createStatement();
         ResultSet rs = stmt.executeQuery("select * from `register`");
         while(rs.next()){
             registerList reg = new registerList();
             reg.setRegNo(rs.getString(1));
             reg.setRegName(rs.getString(2));
             reg.setReglecName(rs.getString(3));
             reg.setReglecCode(rs.getInt(4));
             reg.setRegMid(rs.getInt(5));
             reg.setRegFinal(rs.getInt(6));
             reg.setRegTotal(rs.getInt(7));
             reg.setRegGrade(rs.getString(8));
             registers.add(reg);
         conn.close();
         stmt.close();
         rs.close();
     }catch(Exception e){
         e.printStackTrace();
 %>
 <!DOCTYPE html>
∋ <html>
         <meta charset="UTF-8">
         <title>수강관리</title>
     </head>
     <body>
         <h3>수강관리</h3>
             <a href='./Lecture.jsp'>강좌관리</a>
             <a href='#'>수강관리</a>
             <a href='./student.jsp'>학생관리</a>
```

```
<head>
     <meta charset="UTF-8">
     <title>수강관리</title>
  </head>
  <body>
     .
<h3>수강관리</h3>
       <a href='./Lecture.jsp'>강좌관리</a>
       <a href='#'>수강관리</a>
       <a href='./student.jsp'>학생관리</a>
     </nav>
     학변
          이름
          강좌명
          강좌코드
          중간시험
          기말시험
          총점
          등급
       <% for(registerList rt : registers){ %>
          <%= rt.getRegNo() %>
          <%= rt.getRegName() %>
          <%= rt.getReglecName() %>
          <%= rt.getReglecCode() %>
          <</td>
          <%= rt.getRegFinal() %>
          <%= rt.getRegTotal() %>
          <%= rt.getRegGrade() %>
       <% } %>
     </body>
:/html>
```

Q 3 - student 기능 구현

o student 코드

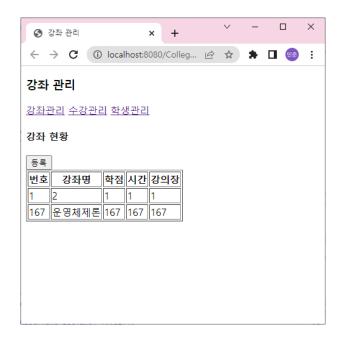
```
@page import="java.sql.ResultSet"%>
 <%@page import="java.sqL.Statement"%>
 <%@page import="config.DBCP"%>
 <%@page import="java.sql.Connection"%>
 <%@page import="java.util.ArrayList"%>
 <%@page import="baen.studentList"%>
 <%@page import="java.util.List"%>
 <%@ page contentType="text/html;charset=UTF-8" pageEncoding="UTF-8"%>
    List<studentList> students = new ArrayList<>();
        Connection conn = DBCP.getConnection();
        Statement stmt = conn.createStatement();
        ResultSet rs = stmt.executeQuery("select * from `student`");
        while(rs.next()){
           studentList std = new studentList();
            std.setStdNo(rs.getString(1));
           std.setStdName(rs.getString(2));
            std.setStdHp(rs.getString(3));
           std.setStdGrade(rs.getInt(4));
            std.setStdAddr(rs.getString(5));
           students.add(std);
        conn.close();
        stmt.close();
        rs.close();
    }catch(Exception e){
        e.printStackTrace();
%>
 <!DOCTYPE html>
∂ <html>
<head>
        <meta charset="UTF-8">
        <title>학생 관리</title>
    </head>
    <body>
        .
<h3>학생관리</h3>
            <a href='./Lecture.jsp'>강좌관리</a>
           <a href='./register.jsp'>수강관리</a>
           <a href='#'>학생관리</a>
        </nav>
        학변
               이름
               휴대폰
               학년
```

Q 3 - 기능 구현 DBCP 케넥션

```
package config;
⊕ import java.sql.Connection;
 public class DBCP {
      private static DataSource ds = null;
\Theta
      public static Connection getConnection() throws NamingException, SQLException {
          if(ds == null) {
              ds = (DataSource) new InitialContext().lookup("java:comp/env/dbcp_college");
          return ds.getConnection();
```

Q4-Lecture aw

● Lecture 동작



⊙ Lecture 등록 동작



강좌 현황

등록				
번호	강좌명	학점	시간	강의장
1	2	1	1	1
2	2	2	2	2
3	3	3	3	3
167	운영체제론	167	167	167