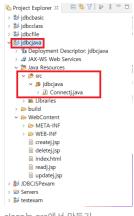
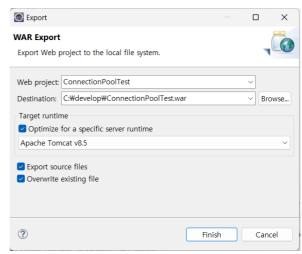
SQL CLASS 5



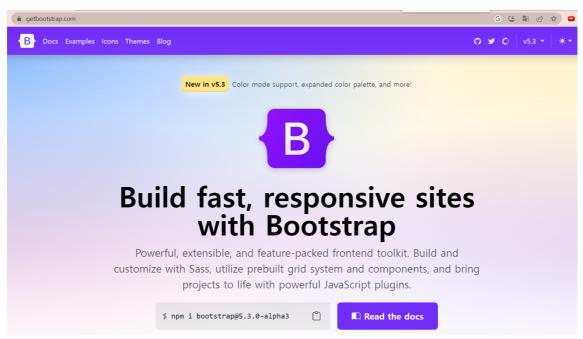
class는 src에서 만들기



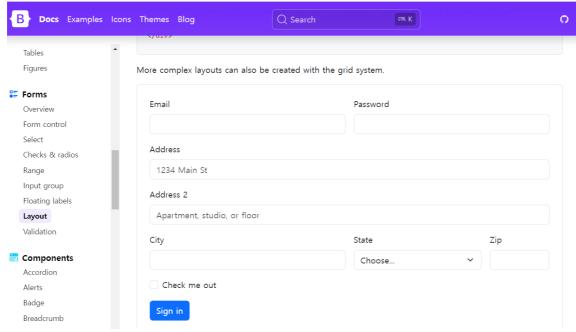
백업

▼ 부트스트랩 사용

▼ 회원가입 페이지



부트스트랩 홈페이지

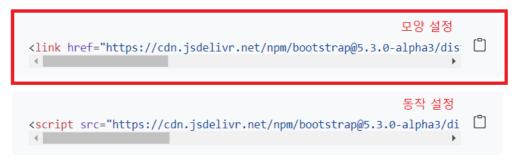


회원가입 페이지 만들기 위해 부트스트랩에서 폼 찾아 코드 끌어오기



Include via CDN

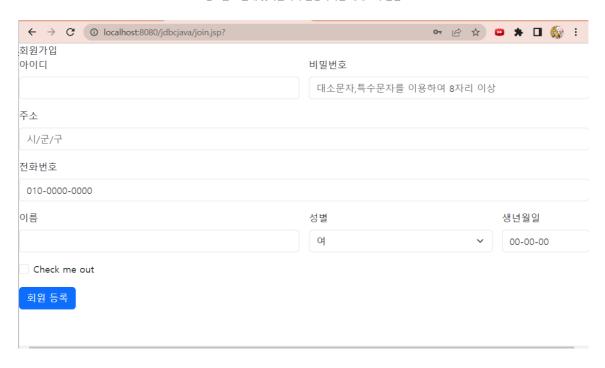
When you only need to include Bootstrap's compiled CSS or JS, you can use <u>jsDelivr</u>. See it in action with our simple <u>quick start</u>, or <u>browse the examples</u> to jumpstart your next project. You can also choose to include Popper and our JS <u>separately</u>.



폼이 예쁘게 나오지 않으면 링크를 갖다붙이면 그대로 나옴 (이클립스에서는 구현 제대로 x)



링크를 크롬에 갖다붙여서 실행시키면 제대로 구현됨



```
<title>Insert title here</title>
</heads
<body>
k href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha3/dist/css/bootstrap.min.css" rel="styl
회원가인
<form class="row g-3" action="createj.jsp" method="get">
   <div class="cot-md-6">
       <label for="inputEmail4" class="form-label">000[</label>
        <input type="text" class="form-control" id="inputEmail4">
</div>
    <div class="col-md-6">
       <label for="inputPassword4" class="form-label">비밀번호</label>
        <input type="password" class="form-control" id="inputPassword4" placeholder="대소문자, 특수문자를 이용하여 &</pre>
    </div>
    <div class="col-12">
       <label for="inputAddress" class="form-label">주소</label>
       <input type="text" class="form-control" id="inputAddress" placeholder="刈/군/구">
    </div>
    <div class="cot-12">
       <label for="inputAddress2" class="form-label">전화번호</label>
        <input type="text" class="form-control" id="inputAddress2" placeholder="010-0000-0000">
    </div>
    <div class="col-md-6">
       <label for="inputCity" class="form-label">0름</label>
       <input type="text" class="form-control" id="inputCity">
                                                           action="createj.jsp" 사용하여 create로 넘어가도록 조작
                                    method="get"은 동작한 키 값을 링크에 보이도록 함(default), method="post"는 가리도록 함
 <title>Insert title here</title>
 </head>
∋ <body>
 <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha3/dist/css/bootstrap.min.css" rel="styl</pre>
 회원가인
form class="row g-3" action="createj.jsp" method="get">
div class="col-md-6">
        <label for="inputEmail4" class="form-label">\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\rightarrow\right
 </div>
    <div class="cot-md-6">
        <label for="inputPassword4" class="form-label">비밀번호</label>
         <input type="password" class="form-control" id="inputPassword4" placeholder="대소문자, 특수문자를 이용하여 </pre>
     </div>
   <div class="col-12">
        <label for="inputAddress" class="form-label">주소</label>
         <input type="text" class="form-control" id="inputAddress" placeholder="*ル/プ/マ">
   <div class="cot-12">
        <label for="inputAddress2" class="form-label">전화번호</label>
        <input type="text" class="form-control" id="inputAddress2" placeholder="010-0000-0000">
     </div>
    <div class="col-md-6">
        <label for="inputCity" class="form-label">0름</label>
         <input type="text" class="form-control" id="inputCity">
                                                      name을 입력하면 name=아이디로 create.isp로 넘어갈 수 있음
                                                             외국은 잘 쓰지 않아서 부트스트랩 이용 시 붙여줘야함
🗢 🖒 🔳 🔗 ▼ http://localhost:8080/jdbcjava/createj.jsp id=ehdgnl&pw=ahsdkfjdfjdf&add=%EB%A7%88%ED%8F%AC%EA%B59 🗸 🕨
                                                                          키값이 들어가는 것을 복 수 있을
  <script>
    window.location.href="main.isp";
   </script>
```

```
% cheader class="site-header sticky-top py-1">
% cnav class="container d-flex flex-column flex-md-row justify-content-between">
% class="py-2" href="#" aria-label="Product">
% csvg xmlns="http://www.w3.org/2000/svg" width="24" height="24" fill="none" stroke="currentColo"
% (a)
% ca class="py-2 d-none d-md-inline-block" href="#">Tour</a>
% a class="py-2 d-none d-md-inline-block" href="#">Product</a>
% a class="py-2 d-none d-md-inline-block" href="#">Features</a>
% a class="py-2 d-none d-md-inline-block" href="#">Enterprise</a>
% a class="py-2 d-none d-md-inline-block" href="#">Support</a>
% a class="py-2 d-none d-md-inline-block" href="#">Pricing</a>
% a class="py-2 d-none d-md-inline-block" href="#">Pricing</a>
% a class="py-2 d-none d-md-inline-block" href="#">Cart</a>
% (nav)
% (header>
```

헤더 부분 (이름 바꾸기)

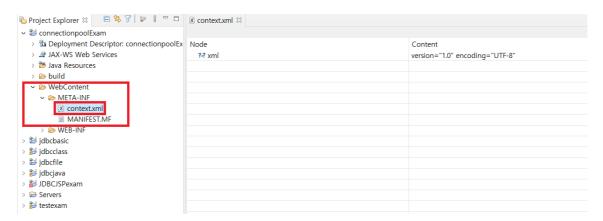
▼ Connection Pool



데이터베이스 연결 객체를 미리 생성하여 관리 매번 연결 객체를 생성, 닫는 과정에서 발생하는 시간적 비용, 성능 저하를 줄일 수 있음 연결 객체를 사용한 후에는 해당 객체를 반환하여 다른 클라이언트에서 재사용 가능

▼ 설정 1/3 STEP

context.xml 생성 ⇒ DB 연결에 필요한 정보들(id, password등) 설정



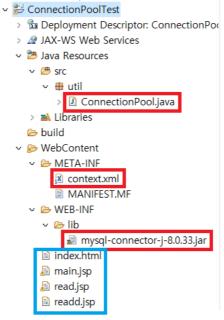
▼ 설정 2/3 STEP

```
Project Explorer 
☐ 🔄 🍞 🎏 🖁 🧮 🗀 🗎 🔯 context.xml 🖟 ConnectionPool.java 🗵
                                               1 package util;
 v 👺 connectionpoolExam
    > 🛅 Deployment Descriptor: connectionpoolEx
                                                  3 public class ConnectionPool {
     > A JAX-WS Web Services
    v 🌁 Java Resources
                                                  5 }
       v 🕭 src
                                                  6
         v 🖶 util
            Libraries
    > 📂 build
package util;
import java.sql.*;
import javax.naming.*;
import javax.sql.DataSource;
public class ConnectionPool {
 private static DataSource _ds = null;
 public static Connection get() throws NamingException, SQLException {
    _ds = (DataSource) (new InitialContext()).lookup("java:comp/env/jdbc/class"); // DB명 조심
   return _ds.getConnection();
}
```

▼ 설정 3/3 STEP

```
v 📸 connectionpoolExam
  > 🛅 Deployment Descriptor: connectionpoolEx
  > A JAX-WS Web Services
  v 🏙 Java Resources
    v 🖶 util
        > ConnectionPool.java
    > 🛋 Libraries
  > 🗁 build
  ∨ B WebContent
    MANIFEST.MF
    v 🗁 lib
          mysql-connector-j-8.0.33.jar
         library에 connector 넣어주기
```

▼ 페이지 만들기 ▼ 설정



이 상태에서 시작, 파란색은 만들어질 페이지

▼ 메인 페이지

메인 페이지 디자인은 부트스트랩에서 가져오기

목록보기에 read.jsp 링크, 회원가입에 join.jsp 링크 (header부분)

```
98
              --bs-btn-active-bg: #5a23c8;
 99
              --bs-btn-active-border-color: #5a23c8;
 100
 101
            .bd-mode-toggle {
             z-index: 1500;
 102
 103
         </style>
 104
 105
 106
 107
         <!-- Custom styles for this template --> <link href="product.css" rel="stylesheet">
 108
 109
        </head>
 110⊖
        <body>
 111
          <!-- 헤더부분 자름 -->
 112
          <%@ include file="header.jsp" %>
 113
 114
115⊖<main>
116⊜
       <div class="position-relative overflow-hidden p-3 p-md-5 m-md-3 text-center bg-body-tertiary">
         <div class="col-md-5 p-lg-5 mx-auto my-5";</pre>
 117⊜

<
 118
 119
 120
 122
          <div class="product-device shadow-sm d-none d-md-block"></div>
```

이때, 헤더부분은 모든 페이지에 중복 적용되기 때문에 header.jsp 파일을 따로 만들어 include 실행

▼ 전체 조회 페이지(READ)

```
<%@ page language="java" contentType="text/html; charset=UTF-8"</pre>
           pageEncoding="UTF-8"%>
 <%@ page import="java.sql.*" %>
<%@ page import="util.*" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title> READ.jdbcjava</title>
< link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha3/dist/css/bootstrap.min.css" rel="stylesheet" integrity="shared blootstrap.min.css" rel="stylesheet" rel="stylesh
 <!-- 반복x -->
      <thead>
                 번호
                                                                                                     <!-- 테이블 칼럼 -->
                  회원아이디
                  회원주소
                 회원전화번호
                  회원성명
                  회원성별
                  회원생년월일
                 회원가입일
            </thead>
      Connection conn = null;
      conn = ConnectionPool.get();
      String sql = "SELECT * FROM user";
      PreparedStatement pstmt = conn.prepareStatement(sql);
      ResultSet rset = pstmt.executeQuery();
      while(rset.next()){
            String uno = rset.getString("uno");
            String udate = rset.getString("udate");
            String uid = rset.getString("uid");
            String upw = rset.getString("upw");
            String uadd = rset.getString("uadd");
            String uphone = rset.getString("uphone");
            String uname = rset.getString("uname");
            String ugen = rset.getString("ugen");
            String ubirth = rset.getString("ubirth");
 <%=uno %>
                  <!-- td에 한 행이 들어감 -->
                  }
      <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha3/dist/js/bootstrap.bundle.min.js" integrity="sha384-ENjd04D-lines for the control of the c
 </html>
```

번호	회원아이디	회원주소	회원전화번호	회원성명	회원성별	회원생년월일	회원가입일
1	아이디	마포구	010-9180-8653	<u>김동휘</u>	ф	1999-05-13	2023-05-12 10:46:53
2	gildong	강남구	010-7897-7888	<u>홍길동</u>	여	1988-04-15	2023-05-12 10:48:17
3	gildong	강남구	010-7897-7888	<u>홍길동</u>	여	1988-04-15	2023-05-12 10:48:36

전체 조회 결과

▼ 상세 조회 페이지(READ)

```
<%@ page language="java" contentType="text/html; charset=UTF-8"</pre>
        pageEncoding="UTF-8"%>
        <%@ page import="java.sql.*" %>
        <%@ page import="util.*" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>READdetail</title>
</head>
<body>
<\\ link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha3/dist/css/bootstrap.min.css" rel="stylesheet" integrity="shaper integri
    <%@ include file="header.jsp" %>
    Connection conn = null;
    conn = ConnectionPool.get();
   int num = Integer.parseInt(request.getParameter("num"));
    String sql = "SELECT * FROM user WHERE uno = ?";
    PreparedStatement pstmt = conn.prepareStatement(sql);
    pstmt.setInt(1, num);
    ResultSet rset = pstmt.executeQuery();
    rset.next();
        String uid = rset.getString("uid");
        String upw = rset.getString("upw");
        String uadd = rset.getString("uadd");
        String uphone = rset.getString("uphone");
        String uname = rset.getString("uname");
        String ugen = rset.getString("ugen");
        String ubirth = rset.getString("ubirth");
<div class="container my-3">
   0|0|C|
            주소
           휴대폰번호
           이름
           성별
            생년월일
<*=ubirth %>
        </div>
```

```
</div>
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha3/dist/js/bootstrap.bundle.min.js" integrity="sha384-ENjd0</pre>
</body>
</html>
   (
                  목록보기
                                     <u>회원가입</u>
                                                        로그인
                                                                          정보수정
                                                                                              정보삭제
                                                                                                                 <u>내 정보</u>
    아이디
                                                     gildong
    주소
                                                     강남구
    휴대폰번호
                                                     010-7897-7888
    이름
                                                     홍길동
    성별
                                                     여
    생년월일
                                                     1988-04-15
   수정 삭제 홈으로
```

▼ 회원 가입 페이지(CREATE)

▼ JOIN

```
<%@ page language="java" contentType="text/html; charset=UTF-8"</pre>
   pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>JOIN</title>
</head>
<body>
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha3/dist/css/bootstrap.min.css" rel="stylesheet" integrity='</pre>
<%@ include file="header.jsp" %>
<form class="row g-3" action="createj.jsp" method="get">
 <div class="col-md-6">
   <label for="inputEmail4" class="form-label">0|0|C|</label>
   <input type="text" name="id" class="form-control" id="inputEmail4">
 </div>
   <label for="inputPassword4" class="form-label">비밀번호</label>
   <input type="password" name="pw" class="form-control" id="inputPassword4" placeholder="대소문자, 특수문자를 이용하여 8자리 0
 </div>
 <div class="col-12">
   <label for="inputAddress" class="form-label">주소</label>
   <input type="text" name="add" class="form-control" id="inputAddress" placeholder="시/군/구">
  </div>
 <div class="col-12">
   <label for="inputAddress2" class="form-label">전화번호</label>
   <input type="text" name="phone" class="form-control" id="inputAddress2" placeholder="010-0000-0000">
 </div>
 <div class="col-md-6">
   <label for="inputCity" class="form-label">이름</label>
   <input type="text" name="name" class="form-control" id="inputCity">
 </div>
 <div class="col-md-4">
   <label for="inputState" class="form-label">성별</label>
<select id="inputState" name="gen" class="form-select">
     <option selected>여</option>
     <option>남</option>
   </select>
 </div>
 <div class="col-md-2">
   <label for="inputZip" class="form-label">생년월일</label>
   <input type="text" name="birth" class="form-control" id="inputZip" placeholder="00-00-00">
 </div>
 <div class="col-12">
   <button type="submit" class="btn btn-primary">회원 등록</button>
 </div>
</form>
</body>
</html>
```



크롬에서 구현한 페이지

▼ CREATE

```
<%@ page language="java" contentType="text/html; charset=UTF-8"</pre>
   pageEncoding="UTF-8"%>
    <%@ page import="java.sql.*" %>
    <%@ page import="util.*" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>CREATE</title>
</head>
<body>
 <%@ include file="header.jsp" %>
  <%
 Connection conn = null:
 conn = ConnectionPool.get();
  String id = request.getParameter("id");
   String pw = request.getParameter("pw");
   String add = request.getParameter("add");
   String phone = request.getParameter("phone");
String name = request.getParameter("name");
   String gen = request.getParameter("gen");
   String birth = request.getParameter("birth");
   String sql = "INSERT INTO user(uid, upw, uadd, uphone, uname, ugen, ubirth) VALUES (?,?,?,?,?,?,?)";
  PreparedStatement pstmt = conn.prepareStatement(sql);
 pstmt.setString(1, id);
 pstmt.setString(2, pw);
pstmt.setString(3, add);
  pstmt.setString(4, phone);
  pstmt.setString(5, name);
  pstmt.setString(6, gen);
 pstmt.setString(7, birth);
 pstmt.executeUpdate();
 response.sendRedirect("read.jsp");
  %>
</body>
</html>
```