



목 차



JSP

실제 페이지 부분



Controller

요청이 있을 시 페이지 연결부분



DATA

ORACLE 데이터와 연결되는 부분



Service 객체부분

객체 생성 부분



CONTENTS Board.jsp - 게시판 구현부분

50 </html>

```
<%@ page contentType="text/html; charset=UTF-8" pageEncoding="UTF-8" language="java" %>
 2 <%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
 3 <!DOCTYPE html>
 4⊖ <html>
 5⊖ <head>
 6 <title>Board</title>
7 <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-1BmE4kWBq78iYhFldvKuhfTAUGauU8tT94WrHftjDbrCEXSU10Boqyl2QvZ6jIW3"
   crossorigin="anonymous">
9 </head>
10
L1⊖ <body style="background-color: #17a2b7;">
L2⊖ <header>
13@
     <div>
        <%@ include file="./Navbar.jsp"%>
14
     </div>
15
L6 </header>
21⊖
22
              번호
23
              이름
              제목
24
25
              날짜
              조회수
26
27
           28⊝
           <c:forEach items="${board}" var="dto">
29⊝
30
              ${dto.bId}
31
              ${dto.bName}
32⊖
              33
                 <c:forEach begin="1" end="${dto.bIndent}">-</c:forEach>
                 <a href="board_manage?bId=${dto.bId}">${dto.bTitle}</a>
              ${dto.bDate}
              ${dto.bHit}
           </c:forEach>
         <div style="position:relative; left:30px; top: 40px;" class="text-end"> <a class="btn btn-primary" href="board_write" role="button">글작성</a></div>
12 </section>
43 <!-- ----
           ·---->
14⊖ <footer>
15 <hr>
16⊖
     <div class="container" style="color:white;">
        <div class="text-center">
17⊝
           안녕하세요.부족하지만 최선을 다하는 프로그래머 이승훈 입니다.
18
        </div>
19
        <div class="text-end" style="padding-top:30px;">
50⊝
         주소 : 대구광역시 남구 대명통<br>
51
          전화번호 : 010-3926-1685
52
        </div>
53
     </div>
55 </footer>
570 <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js" integrity="sha384-ka7Sk0Gln4gmtz2MlQnikT1wXgYsOg+OMhuP+IlRH9sENBOOLRn5q+8nbToy4+1p'
                                                                                                             Windows 성숨 인능
58
        crossorigin="anonymous"></script>
59 </body>
                                                                                                             [설정]으로 이동하여 Windows를 정품 인증합니다.
```

CONTENTS Board_Write.jsp - 게시판 구현부분

```
<section style = "height:700px; width:1200px;">
<div class="container" style="position:relative; top: 40px; left:140px;">
  <form action="write" method="post">
        이름 
          <input type="text" name="bName" class="form-control" placeholder="0/=" aria-label="0/=" aria-describedby="basic-addon1">
           제목 
          <input type="text" name="bTitle" class="form-control" placeholder="제목" aria-label="제목" aria-describedby="basic-addon1">
           내용 
          <div class="form-floating">
           <textarea name="bContent" class="form-control" style="height: 400px"></textarea>
          </div>
          <tr.>
          <input type="submit" value="일찍" class="btn btn-primary">
             <a href="board.do" class="btn btn-primary">목록보기</a>
          </form>
  </div>
</section>
```



CONTENTS Board_Manage.jsp - 게시판 구현부분

```
<section style = "height:750px; width:1200px;">
<div class="container" style="position:relative; top: 40px; left:140px;">
  <form action="modify" method="post">
       <input type="hidden" name="bId" value="${board_view.bId}">
        변호 
          ${board_view.bId} 
        조회수 
           ${board_view.bHit} 
        이름 
          <input type="text" name="bName" class="form-control" value="${board view.bName}">
           제목 
         <input type="text" name="bTitle" class="form-control" value="${board_view.bTitle}">
           내용 
          <textarea name="bContent" class="form-control" style="height: 400px">${board_view.bContent}</textarea>
         <
          <input type="submit" value="수정" class="btn btn-primary"> &nbsp;&nbsp;
            <a href="board" class="btn btn-primary">목록보기</a> &nbsp;&nbsp;
            <a href="delete?bId=${board_view.bId}" class="btn btn-primary">삭제</a> &nbsp;&nbsp;
            <a href="board reply?bId=${board view.bId}" class="btn btn-primary">답변</a>
         </form>
  </div>
</section>
```

CONTENTS Board_Reply.jsp - 게시판 구현부분

```
<section style = "height:700px; width:1200px;">
<div class="container" style="position:relative; top: 40px; left:140px;">
  <form action="reply" method="post">
       <input type="hidden" name="bId" value="${board reply view.bId}">
       <input type="hidden" name="bGroup" value="${board_reply_view.bGroup}">
       <input type="hidden" name="bStep" value="${board_reply_view.bStep}">
       <input type="hidden" name="bIndent" value="${board_reply_view.bIndent}">
        번호 
           ${board_reply_view.bId} 
        조회수 
           ${board_reply_view.bHit} 
        이름 
          <input type="text" name="bName" class="form-control" value="${board reply view.bName}">
           제목 
          <input type="text" name="bTitle" class="form-control" value="${board_reply_view.bTitle}">
           내용 
          <textarea name="bContent" class="form-control" style="height: 400px">${board reply view.bContent}</textarea>
          <input type="submit" value="달변작성" class="btn btn-primary">
            <a href="board" class="btn btn-primary">목록</a>
          </form>
  </div>
</section>
```

Controller

CONTENTS BController.java - MVC 부분

```
public class BController {
    Service service:
    public JdbcTemplate template;
    @Autowired
    public void setTemplate(JdbcTemplate template) {
        this.template = template;
        Constant.template = this.template;
    @RequestMapping("/board")
    public String board(Model model)
        service = new BoardService();
        service.execute(model);
        return "board";
    @RequestMapping("/board_write")
    public String board_write(Model model)
        return "board write";
    @RequestMapping("write")
    public String write(HttpServletRequest request, Model model)
        model.addAttribute("request", request);
        service = new WriteService();
        service.execute(model);
        return "redirect:board";
    @RequestMapping("board_manage")
    public String board_manage(HttpServletRequest request, Model model)
        model.addAttribute("request", request);
        service = new ContentService();
        service.execute(model);
        return "board_manage";
    }
    @RequestMapping(method=RequestMethod.POST, value="/modify")
    public String modify(HttpServletRequest request, Model model) {
        model.addAttribute("request", request);
        service = new ModifyService();
        service.execute(model):
        return "redirect:board";
```

Controller-import부분

```
package com.mypage.lsh.controller;
import javax.servlet.http.HttpServletRequest;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.jdbc.core.JdbcTemplate;
import org.springframework.stereotype.Controller;
import org.springframework.ui.Model;
 import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestMethod;
import com.mypage.lsh.service.BoardService;
import com.mypage.lsh.service.ContentService;
 import com.mypage.lsh.service.DeleteService;
import com.mypage.lsh.service.ModifyService;
import com.mypage.lsh.service.ReplyService;
import com.mypage.lsh.service.ReplyViewService;
 import com.mypage.lsh.service.Service;
import com.mypage.lsh.service.WriteService;
import com.mypage.lsh.utill.Constant;
@RequestMapping("/board_reply")
public String board_reply(HttpServletRequest request, Model model) {
   model.addAttribute("request", request);
    service = new ReplyViewService();
    service.execute(model);
    return "board reply";
}
@RequestMapping("/reply")
public String reply(HttpServletRequest request, Model model) {
    model.addAttribute("request", request);
    service = new ReplyService();
   service.execute(model);
   return "redirect:board";
}
@RequestMapping("/delete")
public String delete(HttpServletRequest request, Model model) {
   model.addAttribute("request", request);
    service = new DeleteService();
   service.execute(model);
   return "redirect:board";
```

DATA

CONTENTS BoardDto.java - MVC 부분

import java.sql.Timestamp;

```
public class BoardDto {
   int bId:
   String bName;
   String bTitle;
   String bContent;
   Timestamp bDate;
   int bHit;
   int bGroup;
   int bStep;
   int bIndent;
   public BoardDto() {
   public BoardDto(int bId, String bName, String bTitle, String bContent, Timestamp bDate, int bHit, int bGroup, int bStep, int bIndent) {
        this.bId = bId;
                                                             public void setbContent(String bContent) {
        this.bName = bName;
                                                                this.bContent = bContent;
        this.bTitle = bTitle;
        this.bContent = bContent;
                                                             public Timestamp getbDate() {
        this.bDate = bDate;
                                                                return bDate;
        this.bHit = bHit;
        this.bGroup = bGroup;
        this.bStep = bStep;
                                                             public void setbDate(Timestamp bDate) {
        this.bIndent = bIndent;
                                                                this.bDate = bDate;
                                                             public int getbHit() {
   public int getbId() {
                                                                return bHit;
        return bId;
                                                             public void setbHit(int bHit) {
                                                                this.bHit = bHit;
   public void setbId(int bId) {
        this.bId = bId;
                                                             public int getbGroup() {
                                                                                                                               Dto 나머지 부분
                                                                return bGroup;
   public String getbName() {
        return bName;
                                                             public void setbGroup(int bGroup) {
                                                                this.bGroup = bGroup;
   public void setbName(String bName) {
                                                             public int getbStep() {
    return bStep;
        this.bName = bName;
   public String getbTitle() {
                                                             public void setbStep(int bStep) {
        return bTitle;
                                                                 this.bStep = bStep;
                                                             public int getbIndent() {
   public void setbTitle(String bTitle) {
                                                                return bIndent;
        this.bTitle = bTitle;
                                                             public void setbIndent(int bIndent) {
                                                                this.bIndent = bIndent;
   public String getbContent() {
       return bContent;
```

Wind

CONTENTS BoardDao.java - Data 연결부분

public class BoardDao {

```
DataSource datasource;
JdbcTemplate template = null;
public BoardDao() {
    template = Constant.template;
public ArrayList<BoardDto> board(){
   String query = "select bId,bName,bTitle,bContent,bDate,bHit,bGroup,bStep,bIndent from board order by bGroup desc,bStep asc";
   return (ArrayList<BoardDto>) template.query(query, new BeanPropertyRowMapper<BoardDto>(BoardDto.class));
public BoardDto board_view(String strID) {
   upHit(strID);
   String query = "select bId,bName,bTitle,bContent,bDate,bHit,bGroup,bStep,bIndent from board where bId = " + strID;
   return template.queryForObject(query, new BeanPropertyRowMapper<BoardDto>(BoardDto.class));
public void write(final String bName,final String bTitle,final String bContent) {
    template.update(new PreparedStatementCreator() {
       @Override
       public PreparedStatement createPreparedStatement(Connection con) throws SQLException {
           String query = "insert into board (bId,bName,bTitle,bContent,bHit,bGroup,bStep,bIndent) values (board_seq.nextval,?,?,?,0,board_seq.currval,0,0)";
           PreparedStatement pstmt = con.prepareStatement(query);
           pstmt.setString(1, bName);
                                                                                   package com.mypage.lsh.boardDao;
           pstmt.setString(2, bTitle);
           pstmt.setString(3, bContent);
                                                                                   import java.sql.Connection;
           return pstmt:
                                                                                   import java.sql.PreparedStatement;
                                                                                   import java.sql.SQLException;
   });
}
                                                                                   import java.util.ArrayList;
public void modify(String bId, String bName, String bTitle, String bContent) {
   String query = "update board set bName = ?, bTitle = ?, bContent = ? where bId = ?";
                                                                                   import javax.sql.DataSource;
    template.update(query, new PreparedStatementSetter() {
       @Override
                                                                                   import org.springframework.jdbc.core.BeanPropertyRowMapper;
       public void setValues(PreparedStatement ps) throws SQLException {
                                                                                   import org.springframework.jdbc.core.JdbcTemplate;
           ps.setString(1, bName);
           ps.setString(2, bTitle);
                                                                                   import org.springframework.jdbc.core.PreparedStatementCreator;
           ps.setString(3, bContent);
           ps.setInt(4, Integer.parseInt(bId));
                                                                                   import org.springframework.jdbc.core.PreparedStatementSetter;
   });
                                                                                   import com.mypage.lsh.boardDto.BoardDto;
                                                                                   import com.mypage.lsh.utill.Constant;
public BoardDto board_reply_view(final String strID) {
   String query = "select bId,bName,bTitle,bContent,bDate,bHit,bGroup,bStep,bIndent from board where bId = " + strID;
   return template.queryForObject(query, new BeanPropertyRowMapper<BoardDto>(BoardDto.class));
                                                                                                                                   Windows 정품 인증
                                                                                                                                   [서저10년 이트웨어 Wisdows로 저표 이즈하니다
```

CONTENTS BoardDao.java - Data 연결부분(2)

```
board_reply_shape(bGroup,bStep);
    String query = "insert into board (bId, bName, bTitle, bContent, bGroup, bStep, bIndent) values (board_seq.nextval,?,?,?,?,?)";
    template.update(query, new PreparedStatementSetter() {
        public void setValues(PreparedStatement ps) throws SQLException {
            ps.setString(1, bName);
            ps.setString(2, bTitle);
            ps.setString(3, bContent);
            ps.setInt(4, Integer.parseInt(bGroup));
            ps.setInt(5, Integer.parseInt(bStep)+1);
            ps.setInt(6, Integer.parseInt(bIndent)+1);
    });
}
public void board reply shape(final String strGroup, final String strStep) {
    String query = "update board set bStep = bStep + 1 where bGroup = ? and bStep > ?";
    template.update(query, new PreparedStatementSetter() {
        public void setValues(PreparedStatement ps) throws SQLException {
            ps.setInt(1, Integer.parseInt(strGroup));
            ps.setInt(2, Integer.parseInt(strStep));
    });
}
public void delete(final String strID) {
    String query = "delete from board where bId = ?";
    template.update(query, new PreparedStatementSetter() {
        public void setValues(PreparedStatement ps) throws SQLException {
            ps.setInt(1, Integer.parseInt(strID));
    });
}
private void upHit(final String bId) {
    String query = "update board set bHit = bHit + 1 where bId = ?";
    template.update(query, new PreparedStatementSetter() {
        public void setValues(PreparedStatement ps) throws SQLException {
            ps.setInt(1,Integer.parseInt(bId));
    });
}
```

public void board_reply(final String bId,final String bName,final String bTitle,final String bContent, final String bGroup,final String bStep,final String bIndent) {

Windows 정품 인증
[설정]으로 이동하여 Windows를 정품 인증합니다

객체생성

```
CONTENTS Model 의존성주입 & Jdbc객체 - 의존성 주입(IO)
package com.mypage.lsh.service;
import org.springframework.ui.Model;
public interface Service {
     public void execute(Model model);
package com.mypage.lsh.utill;
import org.springframework.jdbc.core.JdbcTemplate;
public class Constant {
   public static JdbcTemplate template;
```

```
CONTENTS Service 부분 - 객체생성부분
package com.mypage.lsh.service;
import java.util.ArrayList; ...
public class BoardService implements Service {
     @Override
     public void execute(Model model) {
          BoardDao dao = new BoardDao();
          ArrayList<BoardDto>dtos = dao.board();
          model.addAttribute("board",dtos);
package com.mypage.lsh.service;
import java.util.Map; ...
public class ModifyService implements Service {
   @Override
   public void execute(Model model) {
      Map<String, Object> map = model.asMap();
      HttpServletRequest request = (HttpServletRequest) map.get("request");
      String bId = request.getParameter("bId");
      String bName = request.getParameter("bName");
      String bTitle = request.getParameter("bTitle");
      String bContent = request.getParameter("bContent");
      BoardDao dao = new BoardDao();
      dao.modify(bId, bName, bTitle, bContent);
```

```
package com.mypage.lsh.service;
import java.util.Map;
public class ContentService implements Service {
    @Override
    public void execute(Model model) {
         Map<String,Object> map = model.asMap();
         HttpServletRequest request = (HttpServletRequest) map.get("request"
         String bId = request.getParameter("bId");
         BoardDao dao = new BoardDao();
         BoardDto dto = dao.board view(bId);
         model.addAttribute("board_view",dto);
package com.mypage.lsh.service;
import java.util.Map; ...
public class ReplyService implements Service {
   @Override
   public void execute(Model model) {
       Map<String, Object> map = model.asMap();
       HttpServletRequest request = (HttpServletRequest) map.get("request");
       String bId = request.getParameter("bId");
       String bName = request.getParameter("bName");
       String bTitle = request.getParameter("bTitle");
       String bContent = request.getParameter("bContent");
       String bGroup = request.getParameter("bGroup");
       String bStep = request.getParameter("bStep");
```

dao.board_reply(bId, bName, bTitle, bContent, bGroup, bStep, bIndent);

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

BoardDao dao = new BoardDao();

CONTENTS Service 부분 - 객체생성부분(2)

package com.mypage.lsh.service;

```
package com.mypage.lsh.service;
import java.util.Map;
                                                                      import java.util.Map;
public class DeleteService implements Service {
                                                                      public class WriteService implements Service {
   @Override
   public void execute(Model model) {
                                                                          @Override
       Map<String, Object> map = model.asMap();
                                                                          public void execute(Model model) {
       HttpServletRequest request = (HttpServletRequest) map.get("request");
                                                                              Map<String, Object> map = model.asMap();
       String bId = request.getParameter("bId");
                                                                              HttpServletRequest request = (HttpServletRequest) map.get("request");
                                                                              String bName = request.getParameter("bName");
       BoardDao dao = new BoardDao();
                                                                              String bTitle = request.getParameter("bTitle");
       dao.delete(bId);
                                                                              String bContent = request.getParameter("bContent");
                                                                              BoardDao dao = new BoardDao();
                                                                              dao.write(bName,bTitle,bContent);
package com.mypage.lsh.service;
import java.util.Map;□
public class ReplyViewService implements Service {
    @Override
    public void execute(Model model) {
         Map<String, Object> map = model.asMap();
         HttpServletRequest request = (HttpServletRequest) map.get("request");
         String bId = request.getParameter("bId");
         BoardDao dao = new BoardDao();
         BoardDto dto = dao.board reply view(bId);
         model.addAttribute("board reply view",dto);
    }
```



Thank you for your attention!

CONTACT



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