

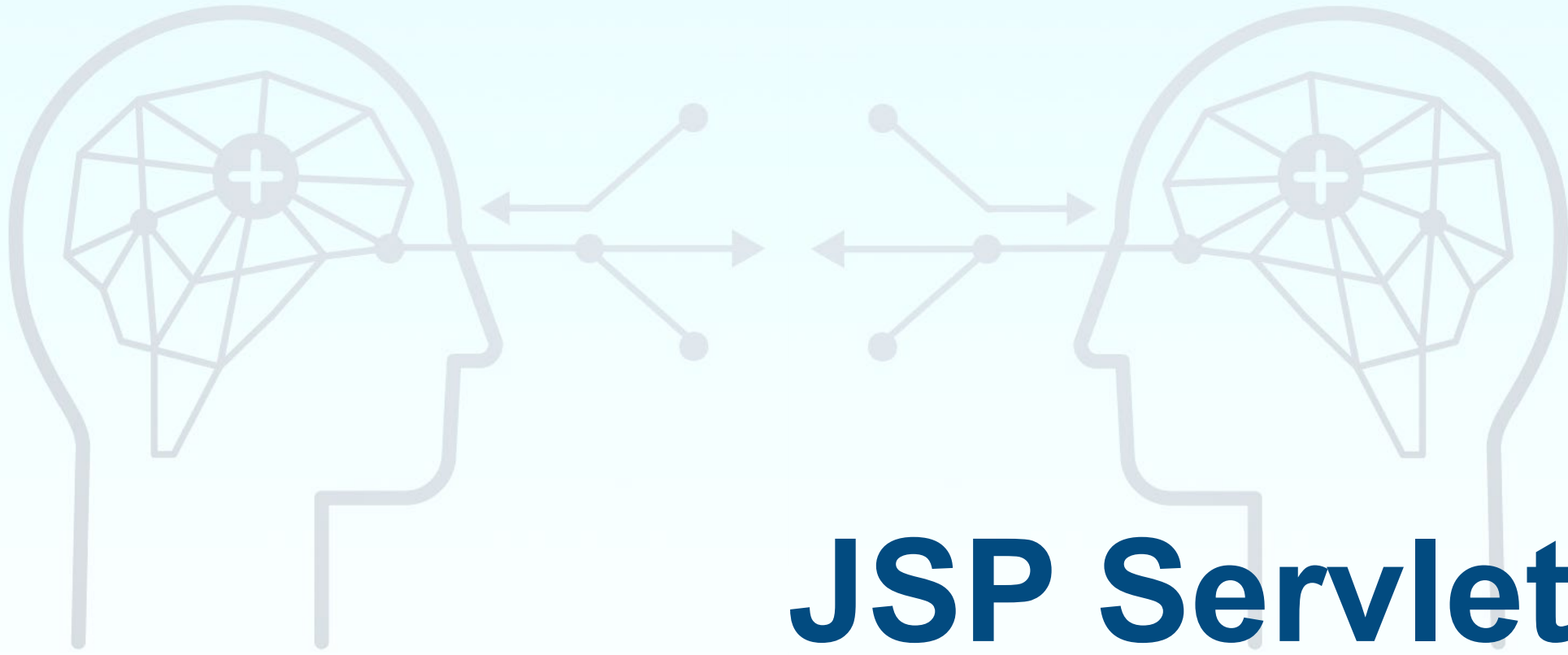


[한국폴리텍대학 성남캠퍼스 인공지능소프트웨어과]

JSP Servlet

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김 형 오



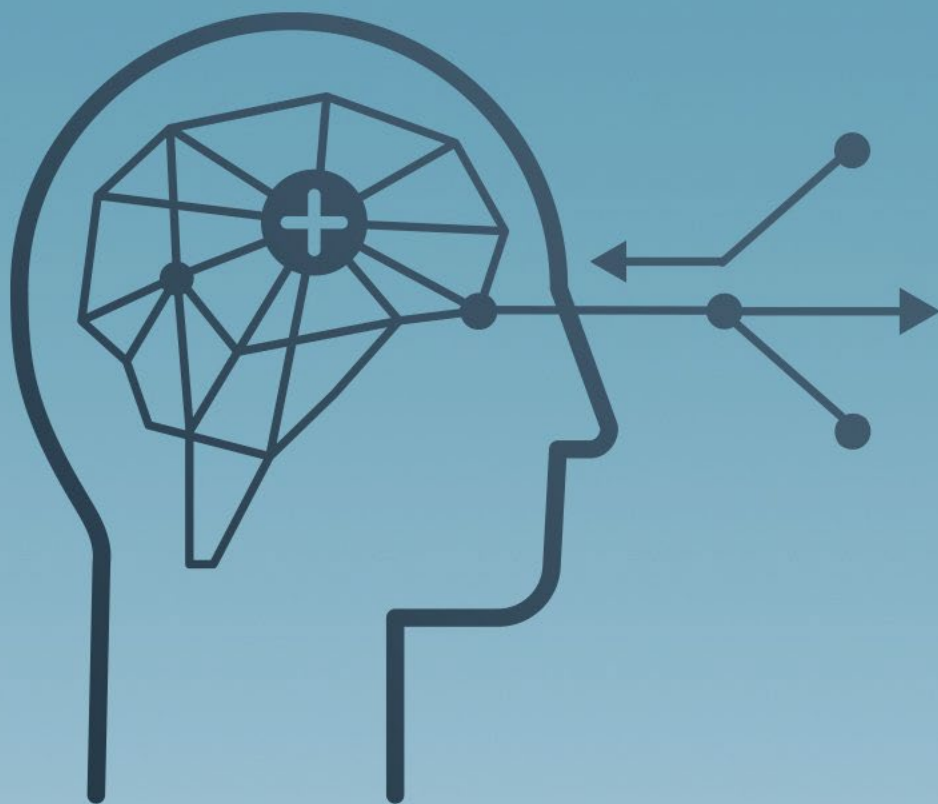
JSP Servlet

DEEP
LEARNING

MACHINE LEARNING BASED
ON ARTIFICIAL NEURAL NETWORKS

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DEEP LEARNING

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Part 1,

게시판 생성

참고문헌

<https://shinny.tistory.com/77>

BoardVO.java

BoardVO.java

```
package biz.board;

import java.util.Date;

public class BoardVO {
    private int seq;
    private String title;
    private String writer;
    private String content;
    private Date regDate;
    public int getSeq() {
        return seq;
    }
    public void setSeq(int seq) {
        this.seq = seq;
    }
    public String getTitle() {
        return title;
    }
}
```

BoardVO.java

BoardVO.java

```
public void setTitle(String title) {  
    this.title = title;  
}  
public String getWriter() {  
    return writer;  
}  
public void setWriter(String writer) {  
    this.writer = writer;  
}  
public String getContent() {  
    return content;  
}  
public void setContent(String content) {  
    this.content = content;  
}  
public Date getRegDate() {  
    return regDate;  
}
```

BoardVO.java

BoardVO.java

```
public void setRegDate(Date regDate) {  
    this.regDate = regDate;  
}  
@Override  
public String toString() {  
    return "BoardVO [seq=" + seq + ", title=" + title + ", writer=" + writer + ", content=" + content +  
        ", regDate=" + regDate + "];"  
}  
  
}
```

BoardDAO.java

BoardDAO.java

```
package biz.board;

import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.util.ArrayList;
import java.util.List;

import biz.common.JDBCUtil;

public class BoardDAO {
    private Connection conn;
    private PreparedStatement stmt;
    private ResultSet rs;

    private static String BOARD_INSERT =
        "insert into board(seq, title, writer, content) values" +
        "((select nvl(max(seq), 0) + 1, from board), ?, ?, ?)";
    private static String BOARD_LIST = "select * from board";
```


BoardDAO.java

BoardDAO.java

```
public void insertBoard(BoardVO vo) {  
    try {  
        conn = JDBCUtil.getConnection();  
        stmt = conn.prepareStatement(BOARD_INSERT);  
        stmt.setString(1, vo.getTitle());  
        stmt.setString(2, vo.getWriter());  
        stmt.setString(3, vo.getContent());  
        stmt.executeUpdate();  
    } catch (Exception e) {  
        e.printStackTrace();  
    } finally {  
        JDBCUtil.close(stmt, conn);  
    }  
}
```

BoardDAO.java

BoardDAO.java

```
public List<BoardVO> getBoardList(BoardVO vo){
    List<BoardVO> boardList = new ArrayList<BoardVO>();
    try {
        conn = JDBCUtil.getConnection();
        stmt = conn.prepareStatement(BOARD_LIST);
        rs = stmt.executeQuery();
        while(rs.next()) {
            BoardVO board = new BoardVO();
            board.setSeq(rs.getInt("SEQ"));
            board.setTitle(rs.getString("TITLE"));
            board.setWriter(rs.getString("WRITER"));
            board.setContent(rs.getString("CONTENT"));
            board.setRegDate(rs.getDate("REGDATE"));
            boardList.add(board);
        }
    } catch (Exception e) {
        e.printStackTrace();
    } finally {
        JDBCUtil.close(rs, stmt, conn);
    }
    return boardList;
}
```

InsertBoardController.java

```
InsertBoardController.java
```

```
package controller.board;
```

```
import javax.servlet.http.HttpServletRequest;
```

```
import javax.servlet.http.HttpServletResponse;
```

```
import biz.board.BoardDAO;
```

```
import biz.board.BoardVO;
```

```
import controller.Controller;
```

```
public class InsertBoardController implements Controller{
```

```
    @Override
```

```
    public String handleRequest(HttpServletRequest request, HttpServletResponse response) {
```

```
        String title = request.getParameter("title");
```

```
        String writer = request.getParameter("writer");
```

```
        String content = request.getParameter("content");
```

```
        BoardVO vo = new BoardVO();
```

```
        vo.setTitle(title);
```

```
        vo.setWriter(writer);
```

```
        vo.setContent(content);
```

InsertBoardController.java

InsertBoardController.java

```
BoardDAO dao = new BoardDAO();  
dao.insertBoard(vo);  
  
return "getBoardList.do";  
}  
}
```

GetBoardListController.java

GetBoardListController.java

```
package controller.board;

import java.util.List;

import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

import biz.board.BoardDAO;
import biz.board.BoardVO;
import controller.Controller;

public class GetBoardListController implements Controller{
    @Override
    public String handleRequest(HttpServletRequest request, HttpServletResponse response) {
        BoardVO vo = new BoardVO();
        BoardDAO dao = new BoardDAO();
        List<BoardVO> boardList = dao.getBoardList(vo);

        request.setAttribute("boardList", boardList);
        return "getBoardList.jsp";
    }
}
```

handlerMapping 수정

HandlerMapping.java

```
public class HandlerMapping {  
    private Map<String, Controller> mappings;  
    public HandlerMapping() {  
        mappings = new HashMap<String, Controller>();  
        mappings.put("/insertUser.do", new insertUserController());  
        mappings.put("/login.do", new LoginController());  
        mappings.put("/logout.do", new LogoutController());  
        mappings.put("/insertBoard.do", new InsertBoardController());  
        mappings.put("/getBoardList.do", new GetBoardListController());  
    }  
    public Controller getController(String path) {  
        return mappings.get(path);  
    }  
}
```

LoginController 수정

LoginController.java

```
public String handleRequest(HttpServletRequest request, HttpServletResponse response) {  
    String id = request.getParameter("id");  
    String password = request.getParameter("password");  
  
    UserVO vo = new UserVO();  
    vo.setId(id);  
    vo.setPassword(password);  
  
    UserDao dao = new UserDao();  
    UserVO user = dao.getUser(vo);  
  
    if(user != null) {  
        HttpSession session=request.getSession();  
        session.setAttribute("user", user);  
        return "getBoardList.do";  
    }else {  
        return "login.html";  
    }  
}
```

insertBoard.html 생성

insertBoard.html

```
<!DOCTYPE html>
<html>
<head>
<meta charset="EUC-KR">
<title>Insert title here</title>
</head>
<body>
<h1>새글 등록</h1>
<hr/>
<form action="insertBoard.do" method="post">
<table border="1">
  <tr>
    <td>title</td>
    <td><input type="text" name="title"/></td>
  </tr>
  <tr>
    <td>writer</td>
    <td><input type="text" name="writer"/></td>
  </tr>
```


insertBoard.html 생성

insertBoard.html

```
<tr>
  <td>content</td>
  <td><textarea name="content" cols="40" rows="10">
  </textarea>
  </td>
</tr>
<tr>
  <td colspan = "2">
  <input type="submit" value="add"/></td>
</tr>
</table>
</form>
</body>
</html>
```

getBoardList.jsp 생성

getBoardList.jsp

```
<%@ page language="java" contentType="text/html; charset=EUC-KR"
    pageEncoding="EUC-KR"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="EUC-KR">
<title>Insert title here</title>
</head>
<body>
<h1>Board List</h1>
<hr/>
<h3>${user.name }님 환영합니다. <a href="Logout.do">Logout</a></h3>
<table border="1">
    <tr>
        <td>no</td><td>title</td><td>writer</td><td>date</td>
    </tr>
```

getBoardList.jsp 생성

getBoardList.jsp

```
<c:forEach var="board" items="${boardList }">
  <tr>
    <td>${board.seq }</td>
    <td><a href="getBoard.do?seq=${board.seq}">${board.title }</a></td>
    <td>${board.writer }</td>
    <td>${board.regDate }</td>
  </tr>
</c:forEach>
</table>
</body>
</html>
```



Part 2, 게시글 삭제, 수정

참고문헌
<https://shinny.tistory.com/77>

BoardDAO.java 수정

BoardDAO.java

```
private static String BOARD_UPDATE =  
"update board set title=?, content=? where seq=?";
```

```
private static String BOARD_DELETE = "delete board where seq=?";
```

```
private static String BOARD_GET = "select * from board where seq=?";
```

BoardDAO.java 수정

BoardDAO.java

```
public void updateBoard(BoardVO vo) {  
    try {  
        conn = JDBCUtil.getConnection();  
        stmt = conn.prepareStatement(BOARD_UPDATE);  
        stmt.setString(1, vo.getTitle());  
        stmt.setString(2, vo.getContent());  
        stmt.setInt(3, vo.getSeq());  
        stmt.executeUpdate();  
    } catch (Exception e) {  
        e.printStackTrace();  
    } finally {  
        JDBCUtil.close(stmt, conn);  
    }  
}
```

BoardDAO.java 수정

BoardDAO.java

```
public void deleteBoard(BoardVO vo) {  
    try {  
        conn = JDBCUtil.getConnection();  
        stmt = conn.prepareStatement(BOARD_DELETE);  
        stmt.setInt(1, vo.getSeq());  
        stmt.executeUpdate();  
    } catch (Exception e) {  
        e.printStackTrace();  
    } finally {  
        JDBCUtil.close(stmt, conn);  
    }  
}
```

BoardDAO.java 수정

BoardDAO.java

```
public BoardVO getBoard(BoardVO vo) {
    BoardVO board = null;
    try {
        conn = JDBCUtil.getConnection();
        stmt = conn.prepareStatement(BOARD_GET);
        stmt.setInt(1, vo.getSeq());
        rs = stmt.executeQuery();
        if(rs.next()) {
            board = new BoardVO();
            board.setSeq(rs.getInt("SEQ"));
            board.setTitle(rs.getString("TITLE"));
            board.setWriter(rs.getString("WRITER"));
            board.setContent(rs.getString("CONTENT"));
            board.setRegDate(rs.getDate("REGDATE"));
        }
    } catch (Exception e) {
        e.printStackTrace();
    } finally {
        JDBCUtil.close(rs, stmt, conn);
    }
    return board;
}
```


GetBoardController.java 수정

GetBoardController.java

```
package controller.board;

import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

import biz.board.BoardDAO;
import biz.board.BoardVO;
import controller.Controller;

public class GetBoardController implements Controller{
    @Override
    public String handleRequest(HttpServletRequest request, HttpServletResponse response) {
        String seq=request.getParameter("seq");
        BoardVO vo = new BoardVO();
        vo.setSeq(Integer.parseInt(seq));

        BoardDAO dao = new BoardDAO();
        BoardVO board = dao.getBoard(vo);

        request.setAttribute("board", board);
        return "getBoard.jsp";
    }
}
```

UpdateBoardController.java 생성

UpdateBoardController.java

```
package controller.board;
```

```
import javax.servlet.http.HttpServletRequest;
```

```
import javax.servlet.http.HttpServletResponse;
```

```
import biz.board.BoardDAO;
```

```
import biz.board.BoardVO;
```

```
import controller.Controller;
```

```
public class UpdateBoardController implements Controller{
```

```
    @Override
```

```
    public String handleRequest(HttpServletRequest request, HttpServletResponse response) {
```

```
        String title = request.getParameter("title");
```

```
        String seq = request.getParameter("seq");
```

```
        String content = request.getParameter("content");
```

UpdateBoardController.java 생성

UpdateBoardController.java

```
BoardVO vo = new BoardVO();  
vo.setTitle(title);  
vo.setSeq(Integer.parseInt(seq));  
vo.setContent(content);  
  
BoardDAO dao = new BoardDAO();  
dao.updateBoard(vo);  
  
return "getBoardList.do";  
}  
}
```

DeleteBoardController.java 생성

DeleteBoardController.java

```
package controller.board;
```

```
import javax.servlet.http.HttpServletRequest;
```

```
import javax.servlet.http.HttpServletResponse;
```

```
import biz.board.BoardDAO;
```

```
import biz.board.BoardVO;
```

```
import controller.Controller;
```

```
public class DeleteBoardController implements Controller{
```

```
    @Override
```

```
    public String handleRequest(HttpServletRequest request, HttpServletResponse response) {
```

```
        String seq = request.getParameter("seq");
```

```
        BoardVO vo = new BoardVO();
```

```
        vo.setSeq(Integer.parseInt(seq));
```

```
        BoardDAO dao = new BoardDAO();
```

```
        dao.deleteBoard(vo);
```

```
        return "getBoardList.do";
```

```
    }
```

```
}
```

HandlerMapping.java 수정

HandlerMapping.java

```
public class HandlerMapping {
    private Map<String, Controller> mappings;
    public HandlerMapping() {
        mappings = new HashMap<String, Controller>();
        mappings.put("/insertUser.do", new insertUserController());
        mappings.put("/login.do", new LoginController());
        mappings.put("/logout.do", new LogoutController());
        mappings.put("/insertBoard.do", new InsertBoardController());
        mappings.put("/getBoardList.do", new GetBoardListController());

        mappings.put("/updateBoard.do", new UpdateBoardController());
        mappings.put("/deleteBoard.do", new DeleteBoardController());
        mappings.put("/getBoard.do", new GetBoardController());
    }
    public Controller getController(String path) {
        return mappings.get(path);
    }
}
```

getBoard.jsp 생성

Getboard.jsp

```
<%@ page language="java" contentType="text/html; charset=EUC-KR"
    pageEncoding="EUC-KR"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="EUC-KR">
<title>Insert title here</title>
</head>
<body>
<h1>글 상세보기</h1>
<hr/>
<form action="updateBoard.do" method = "post">
<input name="seq" type="hidden" value="${board.seq}"/>
<table border="1">
    <tr>
        <td>title</td>
        <td><input name="title" type="text" value="${board.title}"/></td>
    </tr>
```

getBoard.jsp 생성

Getboard.jsp

```
<tr>
  <td>writer</td>
  <td>${board.writer}</td>
</tr>
<tr>
  <td>content</td>
  <td><textarea name="content" cols="40" rows="10">
    ${board.content}
  </textarea></td>
</tr>
<tr>
  <td>date</td>
  <td>${board.regDate}</td>
</tr>
<tr>
  <td colspan="2">
    <input type="submit" value="update"/>
  </td>
</tr>
```

getBoard.jsp 생성

Getboard.jsp

```
</table>
</form>
<hr/>
<a href="insertBoard.html">add board</a>
<br/>
<c:if test="${user.role == 'Admin'}">
<a href="deleteBoard.do?seq=${board.seq}">delete</a>
</c:if>
<br/>
<a href="getBoardList.do">list</a>
</body>
</html>
```


경청해주셔서 감사합니다.