Spring Mini Project

Spring Mini Project[A Glory]
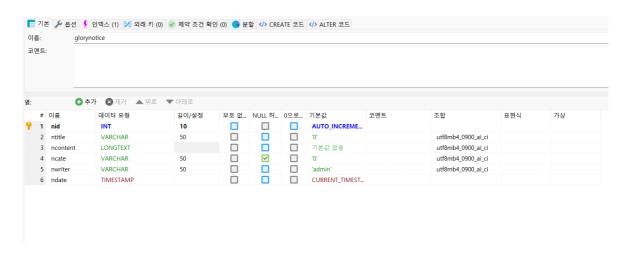
아파트 관리 사무소 웹사이트

1. **정해진 회원만 접근 가능(요청, 접수, 처리 홈페이지)**
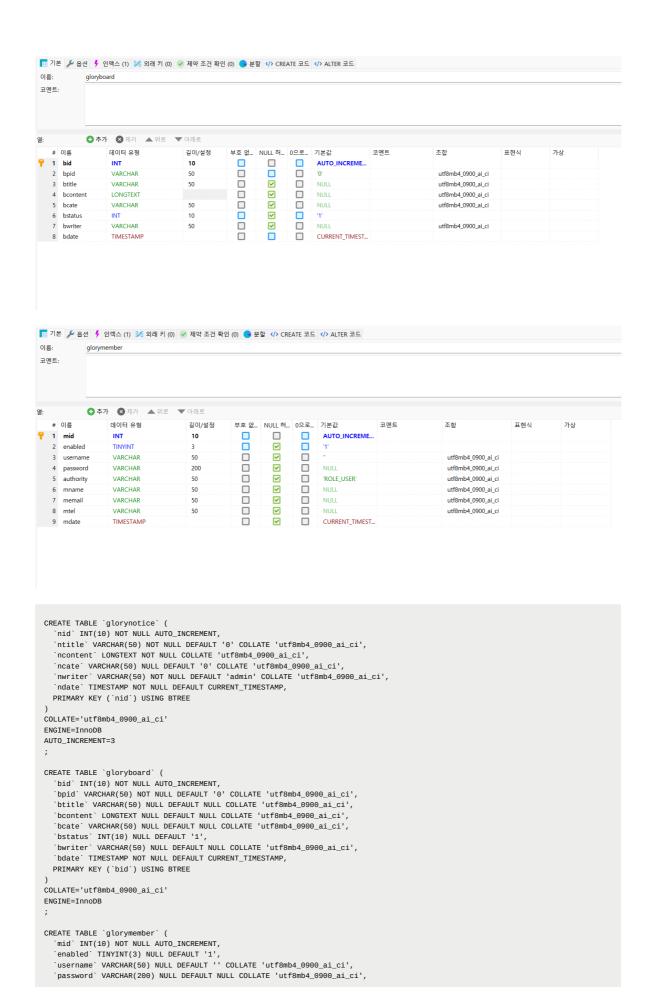2. **테이블(공지사항, 요청접수, 회원관리)**

Free Bootstrap Admin Template - AdminLTE.IO
https://adminlte.io/

▼ DB 생성 & 환경설정

DB 생성

이름:　gloryboard

코멘트:

열:　　➕ 추가　❌ 제거　▲ 위로　▼ 아래로

#	이름	데이터 유형	길이/설정	부호 없...	NULL 허...	0으로...	기본값	코멘트	조합	표현식	가상
🔑 1	bid	INT	10	☐	☐	☐	AUTO_INCREME...				
2	bpid	VARCHAR	50	☐	☐	☐	'0'		utf8mb4_0900_ai_ci		
3	btitle	VARCHAR	50	☐	☑	☐	NULL		utf8mb4_0900_ai_ci		
4	bcontent	LONGTEXT		☐	☑	☐	NULL		utf8mb4_0900_ai_ci		
5	bcate	VARCHAR	50	☐	☑	☐	NULL		utf8mb4_0900_ai_ci		
6	bstatus	INT	10	☐	☑	☐	'1'				
7	bwriter	VARCHAR	50	☐	☑	☐	NULL		utf8mb4_0900_ai_ci		
8	bdate	TIMESTAMP		☐	☐	☐	CURRENT_TIMEST...				

이름:　glorymember

코멘트:

열:　　➕ 추가　❌ 제거　▲ 위로　▼ 아래로

#	이름	데이터 유형	길이/설정	부호 없...	NULL 허...	0으로...	기본값	코멘트	조합	표현식	가상
🔑 1	mid	INT	10	☐	☐	☐	AUTO_INCREME...				
2	enabled	TINYINT	3	☐	☑	☐	'1'				
3	username	VARCHAR	50	☐	☑	☐	''		utf8mb4_0900_ai_ci		
4	password	VARCHAR	200	☐	☑	☐	NULL		utf8mb4_0900_ai_ci		
5	authority	VARCHAR	50	☐	☑	☐	'ROLE_USER'		utf8mb4_0900_ai_ci		
6	mname	VARCHAR	50	☐	☑	☐	NULL		utf8mb4_0900_ai_ci		
7	memail	VARCHAR	50	☐	☑	☐	NULL		utf8mb4_0900_ai_ci		
8	mtel	VARCHAR	50	☐	☑	☐	NULL		utf8mb4_0900_ai_ci		
9	mdate	TIMESTAMP		☐	☑	☐	CURRENT_TIMEST...				

```sql
CREATE TABLE `glorynotice` (
  `nid` INT(10) NOT NULL AUTO_INCREMENT,
  `ntitle` VARCHAR(50) NOT NULL DEFAULT '0' COLLATE 'utf8mb4_0900_ai_ci',
  `ncontent` LONGTEXT NOT NULL COLLATE 'utf8mb4_0900_ai_ci',
  `ncate` VARCHAR(50) NULL DEFAULT '0' COLLATE 'utf8mb4_0900_ai_ci',
  `nwriter` VARCHAR(50) NOT NULL DEFAULT 'admin' COLLATE 'utf8mb4_0900_ai_ci',
  `ndate` TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP,
  PRIMARY KEY (`nid`) USING BTREE
)
COLLATE='utf8mb4_0900_ai_ci'
ENGINE=InnoDB
AUTO_INCREMENT=3
;

CREATE TABLE `gloryboard` (
  `bid` INT(10) NOT NULL AUTO_INCREMENT,
  `bpid` VARCHAR(50) NOT NULL DEFAULT '0' COLLATE 'utf8mb4_0900_ai_ci',
  `btitle` VARCHAR(50) NULL DEFAULT NULL COLLATE 'utf8mb4_0900_ai_ci',
  `bcontent` LONGTEXT NULL DEFAULT NULL COLLATE 'utf8mb4_0900_ai_ci',
  `bcate` VARCHAR(50) NULL DEFAULT NULL COLLATE 'utf8mb4_0900_ai_ci',
  `bstatus` INT(10) NULL DEFAULT '1',
  `bwriter` VARCHAR(50) NULL DEFAULT NULL COLLATE 'utf8mb4_0900_ai_ci',
  `bdate` TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP,
  PRIMARY KEY (`bid`) USING BTREE
)
COLLATE='utf8mb4_0900_ai_ci'
ENGINE=InnoDB
;

CREATE TABLE `glorymember` (
  `mid` INT(10) NOT NULL AUTO_INCREMENT,
  `enabled` TINYINT(3) NULL DEFAULT '1',
  `username` VARCHAR(50) NULL DEFAULT '' COLLATE 'utf8mb4_0900_ai_ci',
  `password` VARCHAR(200) NULL DEFAULT NULL COLLATE 'utf8mb4_0900_ai_ci',
```

```
 `authority` VARCHAR(50) NULL DEFAULT 'ROLE_USER' COLLATE 'utf8mb4_0900_ai_ci',
 `mname` VARCHAR(50) NULL DEFAULT NULL COLLATE 'utf8mb4_0900_ai_ci',
 `memail` VARCHAR(50) NULL DEFAULT NULL COLLATE 'utf8mb4_0900_ai_ci',
 `mtel` VARCHAR(50) NULL DEFAULT NULL COLLATE 'utf8mb4_0900_ai_ci',
 `mdate` TIMESTAMP NULL DEFAULT CURRENT_TIMESTAMP,
 PRIMARY KEY (`mid`) USING BTREE
)
COLLATE='utf8mb4_0900_ai_ci'
ENGINE=InnoDB
;
```

패키지 설정

pom.xml 설정


```
<!-- https://mvnrepository.com/artifact/org.mybatis/mybatis -->
    <dependency>
        <groupId>org.mybatis</groupId>
        <artifactId>mybatis</artifactId>
        <version>3.5.6</version>
    </dependency>
        <!-- https://mvnrepository.com/artifact/org.mybatis/mybatis-spring -->
    <dependency>
        <groupId>org.mybatis</groupId>
        <artifactId>mybatis-spring</artifactId>
        <version>2.0.4</version>
    </dependency>
        <!-- https://mvnrepository.com/artifact/org.springframework/spring-jdbc -->
    <dependency>
```

```xml
        <groupId>org.springframework</groupId>
        <artifactId>spring-jdbc</artifactId>
        <version>5.3.19</version>
    </dependency>
    <!-- https://mvnrepository.com/artifact/org.apache.commons/commons-dbcp2 -->
    <dependency>
        <groupId>org.apache.commons</groupId>
        <artifactId>commons-dbcp2</artifactId>
        <version>2.7.0</version>
    </dependency>
    <!-- https://mvnrepository.com/artifact/org.bgee.log4jdbc-log4j2/log4jdbc-log4j2-jdbc4 -->
    <dependency>
        <groupId>org.bgee.log4jdbc-log4j2</groupId>
        <artifactId>log4jdbc-log4j2-jdbc4</artifactId>
        <version>1.16</version>
    </dependency>
    <!-- https://mvnrepository.com/artifact/mysql/mysql-connector-java -->
    <dependency>
        <groupId>mysql</groupId>
        <artifactId>mysql-connector-java</artifactId>
        <version>8.0.28</version>
    </dependency>
```

servlet-context.xml 설정

```xml
<?xml version="1.0" encoding="UTF-8"?>
<beans:beans xmlns="http://www.springframework.org/schema/mvc"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:beans="http://www.springframework.org/schema/beans"
  xmlns:context="http://www.springframework.org/schema/context"
  xsi:schemaLocation="http://www.springframework.org/schema/mvc https://www.springframework.org/schema/mvc/spring-mvc.xsd
    http://www.springframework.org/schema/beans https://www.springframework.org/schema/beans/spring-beans.xsd
    http://www.springframework.org/schema/context https://www.springframework.org/schema/context/spring-context.xsd">

  <!-- DispatcherServlet Context: defines this servlet's request-processing infrastructure -->

  <!-- Enables the Spring MVC @Controller programming model -->
  <annotation-driven />

  <!-- Handles HTTP GET requests for /resources/** by efficiently serving up static resources in the ${webappRoot}/resources direct
  <resources mapping="/resources/**" location="/resources/" />

  <!-- Resolves views selected for rendering by @Controllers to .jsp resources in the /WEB-INF/views directory -->
  <beans:bean class="org.springframework.web.servlet.view.InternalResourceViewResolver">
    <beans:property name="prefix" value="/WEB-INF/views/" />
    <beans:property name="suffix" value=".jsp" />
  </beans:bean>

  <!-- 업로드 패스 설정 -->
  <beans:bean class="java.lang.String" id="uploadPath">
    <beans:constructor-arg
      value="C:\develop\JSP\Glory\src\main\webapp\resources" /> <!-- 로컬에서 작업할 때 -->
  </beans:bean>

  <context:component-scan base-package="com.glory.*" />


</beans:beans>
```

root-context.xml 설정

```xml
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.springframework.org/schema/beans https://www.springframework.org/schema/beans/spring-beans.xsd">

  <!-- Root Context: defines shared resources visible to all other web components -->

    <!-- mysql 연결 설정 -->
    <bean id="dataSource" class="org.apache.commons.dbcp2.BasicDataSource" destroy-method="close">
    <property name="driverClassName" value="com.mysql.cj.jdbc.Driver"/>
    <property name="url" value="jdbc:mysql://localhost:3306/difbfl4751?serverTimezone=UTC"/>
```

```xml
    <property name="username" value="difbfl4751"/>
    <property name="password" value="비밀번호"/>
    </bean>

     <bean id="sqlSessionFactory"
      class="org.mybatis.spring.SqlSessionFactoryBean">
      <property name="dataSource" ref="dataSource" />
      <property name="mapperLocations"
       value="classpath:/sqlmap/**/*_SQL.xml" />
     </bean>
     <bean id="sqlSessionTemplate"
      class="org.mybatis.spring.SqlSessionTemplate">
      <constructor-arg index="0" ref="sqlSessionFactory" />
     </bean>


</beans>
```

web.xml 설정

```xml
<?xml version="1.0" encoding="UTF-8"?>
<web-app version="2.5" xmlns="http://java.sun.com/xml/ns/javaee"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://java.sun.com/xml/ns/javaee https://java.sun.com/xml/ns/javaee/web-app_2_5.xsd">

  <!-- The definition of the Root Spring Container shared by all Servlets and Filters -->
  <context-param>
    <param-name>contextConfigLocation</param-name>
    <param-value>/WEB-INF/spring/root-context.xml</param-value>
  </context-param>

  <!-- Creates the Spring Container shared by all Servlets and Filters -->
  <listener>
    <listener-class>org.springframework.web.context.ContextLoaderListener</listener-class>
  </listener>

  <!-- Processes application requests -->
  <servlet>
    <servlet-name>appServlet</servlet-name>
    <servlet-class>org.springframework.web.servlet.DispatcherServlet</servlet-class>
    <init-param>
      <param-name>contextConfigLocation</param-name>
      <param-value>/WEB-INF/spring/appServlet/servlet-context.xml</param-value>
    </init-param>
    <load-on-startup>1</load-on-startup>
  </servlet>

  <servlet-mapping>
    <servlet-name>appServlet</servlet-name>
    <url-pattern>/</url-pattern>
  </servlet-mapping>

    <filter>
    <filter-name>encodingFilter</filter-name>
    <filter-class>org.springframework.web.filter.CharacterEncodingFilter
    </filter-class>
    <init-param>
      <param-name>encoding</param-name>
      <param-value>UTF-8</param-value>
    </init-param>
  </filter>
  <filter-mapping>
    <filter-name>encodingFilter</filter-name>
    <url-pattern>/*</url-pattern>
  </filter-mapping>

  <filter>
  <filter-name>springSecurityFilterChain</filter-name>
  <filter-class>org.springframework.web.filter.DelegatingFilterProxy</filter-class>
  </filter>
    <filter-mapping>
    <filter-name>springSecurityFilterChain</filter-name>
    <url-pattern>/*</url-pattern>
  </filter-mapping>

  <filter>
    <filter-name>httpMethodFilter</filter-name>
    <filter-class>org.springframework.web.filter.HiddenHttpMethodFilter</filter-class>
  </filter>
  <filter-mapping>
```

```
    <filter-name>httpMethodFilter</filter-name>
    <servlet-name>appServlet</servlet-name>
  </filter-mapping>

  <error-page>
    <error-code>404</error-code>
    <location>/WEB-INF/views/error.jsp</location>
  </error-page>

</web-app>
```

▼ Board

Board.java

```java
package com.glory.board;

public class Board {

  private int bid, bstatus;

  private String bpid, btitle, bcontent, bcate, bwriter, bdate;

  public int getBid() {
    return bid;
  }

  public void setBid(int bid) {
    this.bid = bid;
  }

  public int getBstatus() {
    return bstatus;
  }

  public void setBstatus(int bstatus) {
    this.bstatus = bstatus;
  }

  public String getBpid() {
    return bpid;
  }

  public void setBpid(String bpid) {
    this.bpid = bpid;
  }

  public String getBtitle() {
    return btitle;
  }

  public void setBtitle(String btitle) {
    this.btitle = btitle;
  }

  public String getBcontent() {
    return bcontent;
  }

  public void setBcontent(String bcontent) {
    this.bcontent = bcontent;
  }

  public String getBcate() {
    return bcate;
  }

  public void setBcate(String bcate) {
    this.bcate = bcate;
  }

  public String getBwriter() {
    return bwriter;
  }

  public void setBwriter(String bwriter) {
```

```java
      this.bwriter = bwriter;
    }

    public String getBdate() {
      return bdate;
    }

    public void setBdate(String bdate) {
      this.bdate = bdate;
    }

    public Board() {
    }

    public Board(int bid, int bstatus, String bpid, String btitle, String bcontent, String bcate, String bwriter,
        String bdate) {
      this.bid = bid;
      this.bstatus = bstatus;
      this.bpid = bpid;
      this.btitle = btitle;
      this.bcontent = bcontent;
      this.bcate = bcate;
      this.bwriter = bwriter;
      this.bdate = bdate;
    }



}
```

board_SQL.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE  mapper PUBLIC "-//mybatis.org//DTD Mapper 3.0//EN" "http://mybatis.org/dtd/mybatis-3-mapper.dtd">
<mapper namespace="board">

  <insert id="insert"
    parameterType="com.glory.board.Board" useGeneratedKeys="true" keyProperty="bid">
    <![CDATA[
      INSERT INTO gloryboard
      (btitle, bcontent, bcate, bstatus, bwriter) VALUES (#{btitle}, #{bcontent}, #{bcate}, #{bstatus}, #{bwriter})
    ]]>
  </insert>

  <insert id="insert_reply"
    parameterType="hashMap" useGeneratedKeys="true" keyProperty="bid">
    <![CDATA[
      INSERT INTO gloryboard
      (bpid, bcontent, bwriter) VALUES (#{bid}, #{bcontent}, #{bwriter})
    ]]>
  </insert>

<select id="select_detail" parameterType="String" resultType="com.glory.board.Board">
<![CDATA[
  SELECT * FROM gloryboard WHERE bid = #{bid}
  ]]>
</select>

<select id="select_list" resultType="com.glory.board.Board">
<![CDATA[
  SELECT * FROM gloryboard WHERE bpid IS NULL ORDER BY bid DESC
  ]]>
</select>

<select id="select_reply" resultType="com.glory.board.Board">
<![CDATA[
  SELECT * FROM gloryboard WHERE bpid=#{bid} ORDER BY bid DESC
  ]]>
</select>

<!-- <update id="update_view" parameterType="hashMap"> -->
<!-- <![CDATA[ -->
<!-- UPDATE board SET bview = bview + 1 WHERE bid = #{bid} -->
<!--  ]]> -->
<!-- </update> -->

<!-- <update id="update_like" parameterType="hashMap"> -->
<!-- <![CDATA[ -->
<!-- UPDATE board SET blike = blike + 1 WHERE bid = #{bid} -->
<!--  ]]> -->
```

```
<!-- </update> -->

<!-- <update id="update_hate" parameterType="hashMap"> -->
<!-- <![CDATA[ -->
<!-- UPDATE board SET bhate = bhate + 1 WHERE bid = #{bid} -->
<!--  ]]> -->
<!-- </update> -->

</mapper>
```

BoardRepository.java

```java
package com.glory.board;

import java.util.List;
import java.util.Map;

public interface BoardRepository {

  void setNewBoard(Board board);

  List<Board> getAllBoardList();

  Board getBoardById(String bId);

  void replyNewBoard(Map<String, Object> map);

  List<Board> getReplyById(String bid);


}
```

BoardRepositoryImpl.java

```java
package com.glory.board;

import java.util.List;
import java.util.Map;

import org.mybatis.spring.SqlSessionTemplate;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Repository;

@Repository
public class BoardRepositoryImpl implements BoardRepository {

  @Autowired
  SqlSessionTemplate sqlSessionTemplate;

  @Override
  public List<Board> getAllBoardList() {
    return this.sqlSessionTemplate.selectList("board.select_list");
  }

  @Override
  public Board getBoardById(String bId) {
    return this.sqlSessionTemplate.selectOne("board.select_detail", bId);
  }

  @Override
  public void setNewBoard(Board board) {
    this.sqlSessionTemplate.insert("board.insert", board);
  }

  @Override
  public void replyNewBoard(Map<String, Object> map) {
    this.sqlSessionTemplate.insert("board.insert_reply", map);
  }

  @Override
  public List<Board> getReplyById(String bid) {
    return this.sqlSessionTemplate.selectList("board.select_reply", bid);
  }
```

```
        }
```

BoardService.java

```java
package com.glory.board;

import java.util.List;
import java.util.Map;

public interface BoardService {

  void setNewBoard(Board board);

  List<Board> getAllBoardList();

  Board getBoardById(String bid);

  void replyNewBoard(Map<String, Object> map);

  List<Board> getReplyById(String bid);

}
```

BoardServiceImpl.java

```java
package com.glory.board;

import java.util.List;package com.glory.board;

import java.util.List;
import java.util.Map;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;

@Service
public class BoardServiceImpl implements BoardService{

  @Autowired     // DI 의존성 주입 IoC 제어의 역전
  private BoardRepository boardRepository;

  @Override
  public List<Board> getAllBoardList() {
    return boardRepository.getAllBoardList();
  }

  @Override
  public Board getBoardById(String bid) {

    Board boardById = boardRepository.getBoardById(bid);

    return boardById;
  }

  @Override
  public void setNewBoard(Board board) {
    boardRepository.setNewBoard(board);
  }

  @Override
  public void replyNewBoard(Map<String, Object> map) {
    boardRepository.replyNewBoard(map);

  }

  @Override
  public List<Board> getReplyById(String bid) {
    return boardRepository.getReplyById(bid);
  }


}
```

```
import java.util.Map;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;

@Service
public class BoardServiceImpl implements BoardService{

  @Autowired     // DI 의존성 주입 IoC 제어의 역전
  private BoardRepository boardRepository;

  @Override
  public List<Board> getAllBoardList() {
    return boardRepository.getAllBoardList();
  }

  @Override
  public Board getBoardById(String bid) {

    Board boardById = boardRepository.getBoardById(bid);

    return boardById;
  }

  @Override
  public void setNewBoard(Board board) {
    boardRepository.setNewBoard(board);
  }

  @Override
  public void replyNewBoard(Map<String, Object> map) {
    boardRepository.replyNewBoard(map);

  }

  @Override
  public List<Board> getReplyById(String bid) {
    return boardRepository.getReplyById(bid);
  }


}
```

BoardController.java

```
package com.glory.board;

import java.util.HashMap;
import java.util.List;
import java.util.Map;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.ui.Model;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.ModelAttribute;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestParam;
import org.springframework.web.bind.annotation.ResponseBody;


@Controller
@RequestMapping("/boards")
public class BoardController {

//  @Autowired
//  private MailService mailService;

  @Autowired     // DI
  private BoardService boardService;

//  @Autowired
//  private UserService userService;

  @GetMapping("/addBoard")
  public String requestAddBoardForm(@ModelAttribute("NewBoard") Board board) {
    return "boards/addBoard";
  }

  @PostMapping("/addBoard")
```

```java
    public String submitAddBoardForm(@ModelAttribute("NewBoard") Board board) {

        boardService.setNewBoard(board);

//      User user = userService.existUsername(board.getBwriter());

//      String to = user.getUemail();
//      String subject = board.getBwriter() + "님의 게시물이 등록되었습니다.";
//      String body = board.getBcontent();

//      mailService.sendMail(to, subject, body);


        return "redirect:/boards/list";
    }

    @RequestMapping("/list")
    public String BoardList(Model model) {
        List<Board> list = boardService.getAllBoardList();
        model.addAttribute("boardList", list);
        return "boards/list";
    }

    @GetMapping("/detail")
    public String requestCarById(@RequestParam("id") String bid, Model model) {

        //view 데이터를 불러오기 전에 조회수 증가
        Map<String, Object> map = new HashMap<String, Object>();
        map.put("bid", bid);
        map.put("check", "bview");

        //주 게시물
        Board boardById = boardService.getBoardById(bid);
        model.addAttribute("board", boardById);


        //답변 게시물
        List<Board> list = boardService.getReplyById(bid);
        int cnt = list.size();
        model.addAttribute("replyList", list);
        model.addAttribute("cnt", cnt);


        return "boards/board";
    }

    @ResponseBody
    @RequestMapping("/replyNew")
    public void replyNew(@RequestParam Map<String, Object> map) {

        boardService.replyNewBoard(map);

//      String boardWriter = (String) map.get("boardWriter");

//      User user = userService.existUsername(boardWriter);

//      String to = user.getUemail();
//      String subject = (String) map.get("bwriter") + "님이 댓글을 등록하였습니다.";
//      String body = (String) map.get("bcontent");

//      mailService.sendMail(to, subject, body);

    }

}
```

addBoard.jsp

```jsp
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form" %>
<%-- <%@ taglib uri="http://www.springframework.org/security/tags" prefix="sec" %> --%>

<head>
    <title>게시판 등록</title>
    <%@ page language="java" contentType="text/html; charset=UTF-8"
        pageEncoding="UTF-8"%>
        <meta charset="utf-8">

</head>
    <!-- Google Font: Source Sans Pro -->
    <link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,400i,700&display=fallback">
```

```
  <!-- Font Awesome -->
  <link rel="stylesheet" href="/resources/admin/plugins/fontawesome-free/css/all.min.css">
  <!-- Theme style -->
  <link rel="stylesheet" href="/resources/admin/dist/css/adminlte.min.css">
<body class="text-center">
<div class="container"><h1>게시판 등록</h1>

<fieldset>
      <form:form modelAttribute="NewBoard" action="./addBoard?${_csrf.parameterName}=${_csrf.token}" class="form-horizontal" metho
  <!-- Main content -->
   <section class="content">
     <div class="row">
       <div class="col-md-6">
         <div class="card card-primary">
           <div class="card-header">
             <h3 class="card-title">General</h3>

       <form:input path="bwriter" type="hidden" value="admin" class="form-control" />

             <div class="card-tools">
               <button type="button" class="btn btn-tool" data-card-widget="collapse" title="Collapse">
                 <i class="fas fa-minus"></i>
               </button>
             </div>
           </div>
           <div class="card-body">
             <div class="form-group">
               <label for="inputName">제목</label>
              <form:input path="btitle" class="form-control" />
             </div>
             <div class="form-group">
               <label for="inputDescription">내용</label>
               <form:textarea path="bcontent" class="form-control" rows="10"/>
             </div>
             <div class="form-group">
               <label for="inputStatus">유형</label>
               <form:select path="bcate" class="form-control custom-select">
                 <option selected disabled>선택하세요</option>
                 <option>버그처리</option>
                 <option>신규기능</option>
                 <option>기타</option>
               </form:select>
             </div>
           </div>


           <div class="row">
         <div class="col-6">
           <a href="#" class="btn btn-secondary">취소</a>
           <input type="submit" value="등록" class="btn btn-success float-right">
         </div>
       </div>


             <!-- /.card-body -->
           </div>
           <!-- /.card -->
         </div>
</div>
</section>
      </form:form>
      </fieldset>
    </div>


<!-- jQuery -->
<script src="/resources/admin/plugins/jquery/jquery.min.js"></script>
<!-- Bootstrap 4 -->
<script src="/resources/admin/plugins/bootstrap/js/bootstrap.bundle.min.js"></script>
<!-- AdminLTE App -->
<script src="/resources/admin/dist/js/adminlte.min.js"></script>
<!-- AdminLTE for demo purposes -->
<!-- <script src="/resources/admin/dist/js/demo.js"></script> -->


</body>
</html>
```

list.jsp

```jsp
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>


<link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,400i,700&display=fallback">

<link rel="stylesheet" href="/resources/admin/plugins/fontawesome-free/css/all.min.css">

<link rel="stylesheet" href="/resources/admin/plugins/datatables-bs4/css/dataTables.bootstrap4.min.css">
<link rel="stylesheet" href="/resources/admin/plugins/datatables-responsive/css/responsive.bootstrap4.min.css">
<link rel="stylesheet" href="/resources/admin/plugins/datatables-buttons/css/buttons.bootstrap4.min.css">

<link rel="stylesheet" href="/resources/admin/dist/css/adminlte.min.css?v=3.2.0">
<script nonce="ee5d093f-ace6-44b5-bf0b-1e27a02cb5bb">(function(w,d){!function(a,b,c,d){a[c]=a[c]||{};a[c].executed=[];a.zaraz={def

</head>
<body>


<div class="card">
<div class="card-header">
<h3 class="card-title">DataTable with default features</h3>
</div>

<div class="card-body">
<table id="example1" class="table table-bordered table-striped">
<thead>
<tr>
<th>Rendering engine</th>
<th>Browser</th>
<th>Platform(s)</th>
<th>Engine version</th>
<th>CSS grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trident</td>
<td>Internet
Explorer 4.0
</td>
<td>Win 95+</td>
<td> 4</td>
<td>X</td>
</tr>
<tr>
<td>Trident</td>
<td>Internet
Explorer 5.0
</td>
<td>Win 95+</td>
<td>5</td>
<td>C</td>
</tr>
<tr>
<td>Trident</td>
<td>Internet
Explorer 5.5
</td>
<td>Win 95+</td>
<td>5.5</td>
<td>A</td>
</tr>
<tr>
<td>Trident</td>
<td>Internet
Explorer 6
</td>
<td>Win 98+</td>
<td>6</td>
<td>A</td>
</tr>
<tr>
<td>Trident</td>
<td>Internet Explorer 7</td>
<td>Win XP SP2+</td>
<td>7</td>
<td>A</td>
</tr>
<tr>
```

```
<td>Trident</td>
<td>AOL browser (AOL desktop)</td>
<td>Win XP</td>
<td>6</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Firefox 1.0</td>
<td>Win 98+ / OSX.2+</td>
<td>1.7</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Firefox 1.5</td>
<td>Win 98+ / OSX.2+</td>
<td>1.8</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Firefox 2.0</td>
<td>Win 98+ / OSX.2+</td>
<td>1.8</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Firefox 3.0</td>
<td>Win 2k+ / OSX.3+</td>
<td>1.9</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Camino 1.0</td>
<td>OSX.2+</td>
<td>1.8</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Camino 1.5</td>
<td>OSX.3+</td>
<td>1.8</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Netscape 7.2</td>
<td>Win 95+ / Mac OS 8.6-9.2</td>
<td>1.7</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Netscape Browser 8</td>
<td>Win 98SE+</td>
<td>1.7</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Netscape Navigator 9</td>
<td>Win 98+ / OSX.2+</td>
<td>1.8</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Mozilla 1.0</td>
<td>Win 95+ / OSX.1+</td>
<td>1</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Mozilla 1.1</td>
<td>Win 95+ / OSX.1+</td>
<td>1.1</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Mozilla 1.2</td>
<td>Win 95+ / OSX.1+</td>
```

```
<td>1.2</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Mozilla 1.3</td>
<td>Win 95+ / OSX.1+</td>
<td>1.3</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Mozilla 1.4</td>
<td>Win 95+ / OSX.1+</td>
<td>1.4</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Mozilla 1.5</td>
<td>Win 95+ / OSX.1+</td>
<td>1.5</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Mozilla 1.6</td>
<td>Win 95+ / OSX.1+</td>
<td>1.6</td>
 <td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Mozilla 1.7</td>
<td>Win 98+ / OSX.1+</td>
<td>1.7</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Mozilla 1.8</td>
<td>Win 98+ / OSX.1+</td>
<td>1.8</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Seamonkey 1.1</td>
<td>Win 98+ / OSX.2+</td>
<td>1.8</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Epiphany 2.20</td>
<td>Gnome</td>
<td>1.8</td>
<td>A</td>
</tr>
<tr>
<td>Webkit</td>
<td>Safari 1.2</td>
<td>OSX.3</td>
<td>125.5</td>
<td>A</td>
</tr>
<tr>
<td>Webkit</td>
<td>Safari 1.3</td>
<td>OSX.3</td>
<td>312.8</td>
<td>A</td>
</tr>
<tr>
<td>Webkit</td>
<td>Safari 2.0</td>
<td>OSX.4+</td>
<td>419.3</td>
<td>A</td>
</tr>
<tr>
<td>Webkit</td>
<td>Safari 3.0</td>
<td>OSX.4+</td>
<td>522.1</td>
<td>A</td>
</tr>
```

```
<tr>
<td>Webkit</td>
<td>OmniWeb 5.5</td>
<td>OSX.4+</td>
<td>420</td>
<td>A</td>
</tr>
<tr>
<td>Webkit</td>
<td>iPod Touch / iPhone</td>
<td>iPod</td>
<td>420.1</td>
<td>A</td>
</tr>
<tr>
<td>Webkit</td>
<td>S60</td>
<td>S60</td>
<td>413</td>
<td>A</td>
</tr>
<tr>
<td>Presto</td>
<td>Opera 7.0</td>
<td>Win 95+ / OSX.1+</td>
<td>-</td>
<td>A</td>
</tr>
<tr>
<td>Presto</td>
<td>Opera 7.5</td>
<td>Win 95+ / OSX.2+</td>
<td>-</td>
<td>A</td>
</tr>
<tr>
<td>Presto</td>
<td>Opera 8.0</td>
<td>Win 95+ / OSX.2+</td>
<td>-</td>
<td>A</td>
</tr>
<tr>
<td>Presto</td>
<td>Opera 8.5</td>
<td>Win 95+ / OSX.2+</td>
<td>-</td>
<td>A</td>
</tr>
<tr>
<td>Presto</td>
<td>Opera 9.0</td>
<td>Win 95+ / OSX.3+</td>
<td>-</td>
<td>A</td>
</tr>
<tr>
<td>Presto</td>
<td>Opera 9.2</td>
<td>Win 88+ / OSX.3+</td>
<td>-</td>
<td>A</td>
</tr>
<tr>
<td>Presto</td>
<td>Opera 9.5</td>
<td>Win 88+ / OSX.3+</td>
<td>-</td>
<td>A</td>
</tr>
<tr>
<td>Presto</td>
<td>Opera for Wii</td>
<td>Wii</td>
<td>-</td>
<td>A</td>
</tr>
<tr>
<td>Presto</td>
<td>Nokia N800</td>
<td>N800</td>
<td>-</td>
<td>A</td>
</tr>
<tr>
<td>Presto</td>
<td>Nintendo DS browser</td>
```

```
<td>Nintendo DS</td>
<td>8.5</td>
<td>C/A<sup>1</sup></td>
</tr>
<tr>
<td>KHTML</td>
<td>Konqureror 3.1</td>
<td>KDE 3.1</td>
<td>3.1</td>
<td>C</td>
</tr>
<tr>
<td>KHTML</td>
<td>Konqureror 3.3</td>
<td>KDE 3.3</td>
<td>3.3</td>
<td>A</td>
</tr>
<tr>
<td>KHTML</td>
<td>Konqureror 3.5</td>
<td>KDE 3.5</td>
<td>3.5</td>
<td>A</td>
</tr>
<tr>
<td>Tasman</td>
<td>Internet Explorer 4.5</td>
<td>Mac OS 8-9</td>
 <td>-</td>
<td>X</td>
</tr>
<tr>
<td>Tasman</td>
<td>Internet Explorer 5.1</td>
<td>Mac OS 7.6-9</td>
<td>1</td>
<td>C</td>
</tr>
<tr>
<td>Tasman</td>
<td>Internet Explorer 5.2</td>
<td>Mac OS 8-X</td>
<td>1</td>
<td>C</td>
</tr>
<tr>
<td>Misc</td>
<td>NetFront 3.1</td>
<td>Embedded devices</td>
<td>-</td>
<td>C</td>
</tr>
<tr>
<td>Misc</td>
<td>NetFront 3.4</td>
<td>Embedded devices</td>
<td>-</td>
<td>A</td>
</tr>
<tr>
<td>Misc</td>
<td>Dillo 0.8</td>
<td>Embedded devices</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>Misc</td>
<td>Links</td>
<td>Text only</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>Misc</td>
<td>Lynx</td>
<td>Text only</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>Misc</td>
<td>IE Mobile</td>
<td>Windows Mobile 6</td>
<td>-</td>
<td>C</td>
```

```html
</tr>
<tr>
<td>Misc</td>
<td>PSP browser</td>
<td>PSP</td>
<td>-</td>
<td>C</td>
</tr>
<tr>
<td>Other browsers</td>
<td>All others</td>
<td>-</td>
<td>-</td>
<td>U</td>
</tr>
</tbody>
<tfoot>
<tr>
<th>Rendering engine</th>
<th>Browser</th>
<th>Platform(s)</th>
<th>Engine version</th>
<th>CSS grade</th>
</tr>
</tfoot>
</table>
</div>

</div>


<footer class="main-footer">
<div class="float-right d-none d-sm-block">
<b>Version</b> 3.2.0
</div>
<strong>Copyright &copy; 2014-2021 <a href="https://adminlte.io">AdminLTE.io</a>.</strong> All rights reserved.
</footer>

<aside class="control-sidebar control-sidebar-dark">

</aside>


</body>

<script src="/resources/admin/plugins/jquery/jquery.min.js"></script>

<script src="/resources/admin/plugins/bootstrap/js/bootstrap.bundle.min.js"></script>

<script src="/resources/admin/plugins/datatables/jquery.dataTables.min.js"></script>
<script src="/resources/admin/plugins/datatables-bs4/js/dataTables.bootstrap4.min.js"></script>
<script src="/resources/admin/plugins/datatables-responsive/js/dataTables.responsive.min.js"></script>
<script src="/resources/admin/plugins/datatables-responsive/js/responsive.bootstrap4.min.js"></script>
<script src="/resources/admin/plugins/datatables-buttons/js/dataTables.buttons.min.js"></script>
<script src="/resources/admin/plugins/datatables-buttons/js/buttons.bootstrap4.min.js"></script>
<script src="/resources/admin/plugins/jszip/jszip.min.js"></script>
<script src="/resources/admin/plugins/pdfmake/pdfmake.min.js"></script>
<script src="/resources/admin/plugins/pdfmake/vfs_fonts.js"></script>
<script src="/resources/admin/plugins/datatables-buttons/js/buttons.html5.min.js"></script>
<script src="/resources/admin/plugins/datatables-buttons/js/buttons.print.min.js"></script>
<script src="/resources/admin/plugins/datatables-buttons/js/buttons.colVis.min.js"></script>

<script src="/resources/admin/dist/js/adminlte.min.js?v=3.2.0"></script>

<!-- <script src="/resources/admin/dist/js/demo.js"></script> -->

<script>
  $(function () {
    $("#example1").DataTable({
      "responsive": true, "lengthChange": false, "autoWidth": false,
      "buttons": ["copy", "csv", "excel", "pdf", "print", "colvis"]
    }).buttons().container().appendTo('#example1_wrapper .col-md-6:eq(0)');
    $('#example2').DataTable({
      "paging": true,
      "lengthChange": false,
      "searching": false,
      "ordering": true,
      "info": true,
      "autoWidth": false,
      "responsive": true,
    });
  });
</script>


</html>
```

▼ Notice

Notice.java

```java
package com.glory.notice;

public class Notice {

  private int nid;

  private String ntitle, ncontent, ncate, nwriter, ndate;

  public int getNid() {
    return nid;
  }

  public void setNid(int nid) {
    this.nid = nid;
  }

  public String getNtitle() {
    return ntitle;
  }

  public void setNtitle(String ntitle) {
    this.ntitle = ntitle;
  }

  public String getNcontent() {
    return ncontent;
  }

  public void setNcontent(String ncontent) {
    this.ncontent = ncontent;
  }

  public String getNcate() {
    return ncate;
  }

  public void setNcate(String ncate) {
    this.ncate = ncate;
  }

  public String getNwriter() {
    return nwriter;
  }

  public void setNwriter(String nwriter) {
    this.nwriter = nwriter;
  }

  public String getNdate() {
    return ndate;
  }

  public void setNdate(String ndate) {
    this.ndate = ndate;
  }

  public Notice() {
  }

  public Notice(int nid, String ntitle, String ncontent, String ncate, String nwriter, String ndate) {
    this.nid = nid;
    this.ntitle = ntitle;
    this.ncontent = ncontent;
    this.ncate = ncate;
    this.nwriter = nwriter;
    this.ndate = ndate;
  }


}
```

notice_SQL.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE  mapper PUBLIC "-//mybatis.org//DTD Mapper 3.0//EN" "http://mybatis.org/dtd/mybatis-3-mapper.dtd">
<mapper namespace="notice">

  <insert id="insert"
    parameterType="com.glory.notice.Notice" useGeneratedKeys="true" keyProperty="nid">
    <![CDATA[
      INSERT INTO glorynotice
      (ntitle, ncontent, ncate, nwriter) VALUES (#{ntitle}, #{ncontent}, #{ncate}, #{nwriter})
    ]]>
  </insert>

  <select id="select_detail" parameterType="String" resultType="com.glory.notice.Notice">
  <![CDATA[
    SELECT * FROM glorynotice WHERE nid = #{nid}
    ]]>
  </select>

  <select id="select_list" resultType="com.glory.notice.Notice">
  <![CDATA[
    SELECT * FROM glorynotice ORDER BY nid DESC
    ]]>
  </select>

</mapper>
```

NoticeRepository.java

```java
package com.glory.notice;

import java.util.List;

public interface NoticeRepository {

  void setNewNotice(Notice notice);

  List<Notice> getAllNoticeList();

  Notice getNoticeById(String nId);


}
```

NoticeRepositoryImpl.java

```java
package com.glory.notice;

import java.util.List;

import org.mybatis.spring.SqlSessionTemplate;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Repository;

@Repository
public class NoticeRepositoryImpl implements NoticeRepository {

  @Autowired
  SqlSessionTemplate sqlSessionTemplate;


  @Override
  public void setNewNotice(Notice notice) {
    this.sqlSessionTemplate.insert("notice.insert", notice);

  }

  @Override
  public List<Notice> getAllNoticeList() {
    return this.sqlSessionTemplate.selectList("notice.select_list");
  }
```

```
  @Override
  public Notice getNoticeById(String nId) {
    return this.sqlSessionTemplate.selectOne("notice.select_detail", nId);
  }

}
```

NoticeService.java

```
package com.glory.notice;

import java.util.List;

public interface NoticeService {

  void setNewNotice(Notice notice);

  List<Notice> getAllNoticeList();

  Notice getNoticeById(String nid);

}
```

NoticeServiceImpl.java

```
package com.glory.notice;

import java.util.List;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;

@Service
public class NoticeServiceImpl implements NoticeService {

  @Autowired
  private NoticeRepository noticeRepository;

  @Override
  public void setNewNotice(Notice notice) {
    noticeRepository.setNewNotice(notice);

  }

  @Override
  public List<Notice> getAllNoticeList() {
    return noticeRepository.getAllNoticeList();
  }

  @Override
  public Notice getNoticeById(String nid) {

    Notice noticeById = noticeRepository.getNoticeById(nid);

    return noticeById;
  }

}
```

NoticeController.java

```
package com.glory.notice;

import java.util.HashMap;
import java.util.List;
import java.util.Map;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
```

```
import org.springframework.ui.Model;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.ModelAttribute;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestParam;

@Controller
@RequestMapping("/notice")
public class NoticeController {


//  @Autowired
//  private MailService mailService;

    @Autowired
    private NoticeService noticeService;

//  @Autowired
//  private UserService userService;

    @GetMapping("/addNotice")
    public String requestAddNoticeForm(@ModelAttribute("NewNotice") Notice notice) {
      return "notices/addNotice";
    }

    @PostMapping("/addNotice")
    public String submitAddNoticeForm(@ModelAttribute("NewNotice") Notice notice) {

      noticeService.setNewNotice(notice);

//      User user = userService.existUsername(board.getBwriter());

//      String to = user.getUemail();
//      String subject = board.getBwriter() + "님의 게시물이 등록되었습니다.";
//      String body = board.getBcontent();

//      mailService.sendMail(to, subject, body);


      return "redirect:/notices/list";
    }

    @RequestMapping("/list")
    public String NoticeList(Model model) {
      List<Notice> list = noticeService.getAllNoticeList();
      model.addAttribute("noticeList", list);
      return "notices/list";
    }

    @GetMapping("/detail")
    public String requestNoticeById(@RequestParam("id") String nid, Model model) {

      //view 데이터를 불러오기 전에 조회수 증가
      Map<String, Object> map = new HashMap<String, Object>();
      map.put("nid", nid);
      map.put("check", "nview");

      //주 게시물
      Notice noticeById = noticeService.getNoticeById(nid);
      model.addAttribute("notice", noticeById);


      return "notices/notice";
    }

}
```

addNotice.jsp

```
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form" %>
<%-- <%@ taglib uri="http://www.springframework.org/security/tags" prefix="sec" %> --%>

<head>
  <title>공지사항 등록</title>
  <%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
      <meta charset="utf-8">

</head>
```

```
  <!-- Google Font: Source Sans Pro -->
  <link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,400i,700&display=fallback">
  <!-- Font Awesome -->
  <link rel="stylesheet" href="/resources/admin/plugins/fontawesome-free/css/all.min.css">
  <!-- Theme style -->
  <link rel="stylesheet" href="/resources/admin/dist/css/adminlte.min.css">
<body class="text-center">

<%@ include file="../header.jsp" %>



<div class="container"><h1>공지사항 등록</h1>

<fieldset>
      <form:form modelAttribute="NewNotice" action="./addNotice?${_csrf.parameterName}=${_csrf.token}" class="form-horizontal" metl
    <!-- Main content -->
     <section class="content">
       <div class="row">
         <div class="col-md-6">
           <div class="card card-primary">
             <div class="card-header">
               <h3 class="card-title">General</h3>

        <form:input path="nwriter" type="hidden" value="admin" class="form-control" />

               <div class="card-tools">
                 <button type="button" class="btn btn-tool" data-card-widget="collapse" title="Collapse">
                   <i class="fas fa-minus"></i>
                 </button>
               </div>
             </div>
             <div class="card-body">
               <div class="form-group">
                 <label for="inputName">제목</label>
                 <form:input path="ntitle" class="form-control" />
               </div>
               <div class="form-group">
                 <label for="inputDescription">내용</label>
                 <form:textarea path="ncontent" class="form-control" rows="10"/>
               </div>
               <div class="form-group">
                 <label for="inputStatus">유형</label>
                 <form:select path="ncate" class="form-control custom-select">
                   <option selected disabled>선택하세요</option>
                   <option>일반</option>
                   <option>행사</option>
                   <option>기타</option>
                 </form:select>
               </div>
             </div>


             <div class="row">
         <div class="col-6">
           <a href="#" class="btn btn-secondary">취소</a>
           <input type="submit" value="등록" class="btn btn-success float-right">
         </div>
       </div>



             <!-- /.card-body -->
           </div>
           <!-- /.card -->
         </div>
</div>
</section>
      </form:form>
      </fieldset>
     </div>


<!-- jQuery -->
<script src="/resources/admin/plugins/jquery/jquery.min.js"></script>
<!-- Bootstrap 4 -->
<script src="/resources/admin/plugins/bootstrap/js/bootstrap.bundle.min.js"></script>
<!-- AdminLTE App -->
<script src="/resources/admin/dist/js/adminlte.min.js"></script>
<!-- AdminLTE for demo purposes -->
<!-- <script src="/resources/admin/dist/js/demo.js"></script> -->
<%@ include file="../footer.jsp" %>

</body>
</html>
```

list.jsp

```jsp
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>


<link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,400i,700&display=fallback">

<link rel="stylesheet" href="/resources/admin/plugins/fontawesome-free/css/all.min.css">

<link rel="stylesheet" href="/resources/admin/plugins/datatables-bs4/css/dataTables.bootstrap4.min.css">
<link rel="stylesheet" href="/resources/admin/plugins/datatables-responsive/css/responsive.bootstrap4.min.css">
<link rel="stylesheet" href="/resources/admin/plugins/datatables-buttons/css/buttons.bootstrap4.min.css">

<link rel="stylesheet" href="/resources/admin/dist/css/adminlte.min.css?v=3.2.0">
<script nonce="ee5d093f-ace6-44b5-bf0b-1e27a02cb5bb">(function(w,d){!function(a,b,c,d){a[c]=a[c]||{};a[c].executed=[];a.zaraz={def

</head>
<body>


<div class="card">
<div class="card-header">
<h3 class="card-title">DataTable with default features</h3>
</div>

<div class="card-body">
<table id="example1" class="table table-bordered table-striped">
<thead>
<tr>
<th>Rendering engine</th>
<th>Browser</th>
<th>Platform(s)</th>
<th>Engine version</th>
<th>CSS grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trident</td>
<td>Internet
Explorer 4.0
</td>
<td>Win 95+</td>
<td> 4</td>
<td>X</td>
</tr>
<tr>
<td>Trident</td>
<td>Internet
Explorer 5.0
</td>
<td>Win 95+</td>
<td>5</td>
<td>C</td>
</tr>
<tr>
<td>Trident</td>
<td>Internet
Explorer 5.5
</td>
<td>Win 95+</td>
<td>5.5</td>
<td>A</td>
</tr>
<tr>
<td>Trident</td>
<td>Internet
Explorer 6
</td>
<td>Win 98+</td>
<td>6</td>
<td>A</td>
</tr>
<tr>
<td>Trident</td>
<td>Internet Explorer 7</td>
<td>Win XP SP2+</td>
```

```
<td>7</td>
<td>A</td>
</tr>
<tr>
<td>Trident</td>
<td>AOL browser (AOL desktop)</td>
<td>Win XP</td>
<td>6</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Firefox 1.0</td>
<td>Win 98+ / OSX.2+</td>
<td>1.7</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Firefox 1.5</td>
<td>Win 98+ / OSX.2+</td>
<td>1.8</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Firefox 2.0</td>
<td>Win 98+ / OSX.2+</td>
<td>1.8</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Firefox 3.0</td>
<td>Win 2k+ / OSX.3+</td>
<td>1.9</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Camino 1.0</td>
<td>OSX.2+</td>
<td>1.8</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Camino 1.5</td>
<td>OSX.3+</td>
<td>1.8</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Netscape 7.2</td>
<td>Win 95+ / Mac OS 8.6-9.2</td>
<td>1.7</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Netscape Browser 8</td>
<td>Win 98SE+</td>
<td>1.7</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Netscape Navigator 9</td>
<td>Win 98+ / OSX.2+</td>
<td>1.8</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Mozilla 1.0</td>
<td>Win 95+ / OSX.1+</td>
<td>1</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Mozilla 1.1</td>
<td>Win 95+ / OSX.1+</td>
<td>1.1</td>
<td>A</td>
</tr>
</tr>
```

```
<tr>
<td>Gecko</td>
<td>Mozilla 1.2</td>
<td>Win 95+ / OSX.1+</td>
<td>1.2</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Mozilla 1.3</td>
<td>Win 95+ / OSX.1+</td>
<td>1.3</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Mozilla 1.4</td>
<td>Win 95+ / OSX.1+</td>
<td>1.4</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Mozilla 1.5</td>
<td>Win 95+ / OSX.1+</td>
<td>1.5</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Mozilla 1.6</td>
<td>Win 95+ / OSX.1+</td>
<td>1.6</td>
 <td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Mozilla 1.7</td>
<td>Win 98+ / OSX.1+</td>
<td>1.7</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Mozilla 1.8</td>
<td>Win 98+ / OSX.1+</td>
<td>1.8</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Seamonkey 1.1</td>
<td>Win 98+ / OSX.2+</td>
<td>1.8</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Epiphany 2.20</td>
<td>Gnome</td>
<td>1.8</td>
<td>A</td>
</tr>
<tr>
<td>Webkit</td>
<td>Safari 1.2</td>
<td>OSX.3</td>
<td>125.5</td>
<td>A</td>
</tr>
<tr>
<td>Webkit</td>
<td>Safari 1.3</td>
<td>OSX.3</td>
<td>312.8</td>
<td>A</td>
</tr>
<tr>
<td>Webkit</td>
<td>Safari 2.0</td>
<td>OSX.4+</td>
<td>419.3</td>
<td>A</td>
</tr>
<tr>
<td>Webkit</td>
<td>Safari 3.0</td>
```

```
<td>OSX.4+</td>
<td>522.1</td>
<td>A</td>
</tr>
<tr>
<td>Webkit</td>
<td>OmniWeb 5.5</td>
<td>OSX.4+</td>
<td>420</td>
<td>A</td>
</tr>
<tr>
<td>Webkit</td>
<td>iPod Touch / iPhone</td>
<td>iPod</td>
<td>420.1</td>
<td>A</td>
</tr>
<tr>
<td>Webkit</td>
<td>S60</td>
<td>S60</td>
<td>413</td>
<td>A</td>
</tr>
<tr>
<td>Presto</td>
<td>Opera 7.0</td>
<td>Win 95+ / OSX.1+</td>
<td>-</td>
<td>A</td>
</tr>
<tr>
<td>Presto</td>
<td>Opera 7.5</td>
<td>Win 95+ / OSX.2+</td>
<td>-</td>
<td>A</td>
</tr>
<tr>
<td>Presto</td>
<td>Opera 8.0</td>
<td>Win 95+ / OSX.2+</td>
<td>-</td>
<td>A</td>
</tr>
<tr>
<td>Presto</td>
<td>Opera 8.5</td>
<td>Win 95+ / OSX.2+</td>
<td>-</td>
<td>A</td>
</tr>
<tr>
<td>Presto</td>
<td>Opera 9.0</td>
<td>Win 95+ / OSX.3+</td>
<td>-</td>
<td>A</td>
</tr>
<tr>
<td>Presto</td>
<td>Opera 9.2</td>
<td>Win 88+ / OSX.3+</td>
<td>-</td>
<td>A</td>
</tr>
<tr>
<td>Presto</td>
<td>Opera 9.5</td>
<td>Win 88+ / OSX.3+</td>
<td>-</td>
<td>A</td>
</tr>
<tr>
<td>Presto</td>
<td>Opera for Wii</td>
<td>Wii</td>
<td>-</td>
<td>A</td>
</tr>
<tr>
<td>Presto</td>
<td>Nokia N800</td>
<td>N800</td>
<td>-</td>
<td>A</td>
```

```
</tr>
<tr>
<td>Presto</td>
<td>Nintendo DS browser</td>
<td>Nintendo DS</td>
<td>8.5</td>
<td>C/A<sup>1</sup></td>
</tr>
<tr>
<td>KHTML</td>
<td>Konqureror 3.1</td>
<td>KDE 3.1</td>
<td>3.1</td>
<td>C</td>
</tr>
<tr>
<td>KHTML</td>
<td>Konqureror 3.3</td>
<td>KDE 3.3</td>
<td>3.3</td>
<td>A</td>
</tr>
<tr>
<td>KHTML</td>
<td>Konqureror 3.5</td>
<td>KDE 3.5</td>
<td>3.5</td>
<td>A</td>
</tr>
<tr>
<td>Tasman</td>
<td>Internet Explorer 4.5</td>
<td>Mac OS 8-9</td>
 <td>-</td>
<td>X</td>
</tr>
<tr>
<td>Tasman</td>
<td>Internet Explorer 5.1</td>
<td>Mac OS 7.6-9</td>
<td>1</td>
<td>C</td>
</tr>
<tr>
<td>Tasman</td>
<td>Internet Explorer 5.2</td>
<td>Mac OS 8-X</td>
<td>1</td>
<td>C</td>
</tr>
<tr>
<td>Misc</td>
<td>NetFront 3.1</td>
<td>Embedded devices</td>
<td>-</td>
<td>C</td>
</tr>
<tr>
<td>Misc</td>
<td>NetFront 3.4</td>
<td>Embedded devices</td>
<td>-</td>
<td>A</td>
</tr>
<tr>
<td>Misc</td>
<td>Dillo 0.8</td>
<td>Embedded devices</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>Misc</td>
<td>Links</td>
<td>Text only</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>Misc</td>
<td>Lynx</td>
<td>Text only</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>Misc</td>
```

```html
<td>IE Mobile</td>
<td>Windows Mobile 6</td>
<td>-</td>
<td>C</td>
</tr>
<tr>
<td>Misc</td>
<td>PSP browser</td>
<td>PSP</td>
<td>-</td>
<td>C</td>
</tr>
<tr>
<td>Other browsers</td>
<td>All others</td>
<td>-</td>
<td>-</td>
<td>U</td>
</tr>
</tbody>
<tfoot>
<tr>
<th>Rendering engine</th>
<th>Browser</th>
<th>Platform(s)</th>
<th>Engine version</th>
<th>CSS grade</th>
</tr>
</tfoot>
</table>
</div>

</div>


<footer class="main-footer">
<div class="float-right d-none d-sm-block">
<b>Version</b> 3.2.0
</div>
<strong>Copyright &copy; 2014-2021 <a href="https://adminlte.io">AdminLTE.io</a>.</strong> All rights reserved.
</footer>

<aside class="control-sidebar control-sidebar-dark">

</aside>


</body>

<script src="/resources/admin/plugins/jquery/jquery.min.js"></script>

<script src="/resources/admin/plugins/bootstrap/js/bootstrap.bundle.min.js"></script>

<script src="/resources/admin/plugins/datatables/jquery.dataTables.min.js"></script>
<script src="/resources/admin/plugins/datatables-bs4/js/dataTables.bootstrap4.min.js"></script>
<script src="/resources/admin/plugins/datatables-responsive/js/dataTables.responsive.min.js"></script>
<script src="/resources/admin/plugins/datatables-responsive/js/responsive.bootstrap4.min.js"></script>
<script src="/resources/admin/plugins/datatables-buttons/js/dataTables.buttons.min.js"></script>
<script src="/resources/admin/plugins/datatables-buttons/js/buttons.bootstrap4.min.js"></script>
<script src="/resources/admin/plugins/jszip/jszip.min.js"></script>
<script src="/resources/admin/plugins/pdfmake/pdfmake.min.js"></script>
<script src="/resources/admin/plugins/pdfmake/vfs_fonts.js"></script>
<script src="/resources/admin/plugins/datatables-buttons/js/buttons.html5.min.js"></script>
<script src="/resources/admin/plugins/datatables-buttons/js/buttons.print.min.js"></script>
<script src="/resources/admin/plugins/datatables-buttons/js/buttons.colVis.min.js"></script>

<script src="/resources/admin/dist/js/adminlte.min.js?v=3.2.0"></script>

<!-- <script src="/resources/admin/dist/js/demo.js"></script> -->

<script>
  $(function () {
    $("#example1").DataTable({
      "responsive": true, "lengthChange": false, "autoWidth": false,
      "buttons": ["copy", "csv", "excel", "pdf", "print", "colvis"]
    }).buttons().container().appendTo('#example1_wrapper .col-md-6:eq(0)');
    $('#example2').DataTable({
      "paging": true,
      "lengthChange": false,
      "searching": false,
      "ordering": true,
      "info": true,
      "autoWidth": false,
      "responsive": true,
    });
  });
</script>
```

```
</html>
```

▼ Member

Member.java

```
package com.glory.member;

public class Member {

  private int mid, enabled;

  private String username, password, authority, mname, memail, mtel, mdate;

  public int getMid() {
    return mid;
  }

  public void setMid(int mid) {
    this.mid = mid;
  }

  public int getEnabled() {
    return enabled;
  }

  public void setEnabled(int enabled) {
    this.enabled = enabled;
  }

  public String getUsername() {
    return username;
  }

  public void setUsername(String username) {
    this.username = username;
  }

  public String getPassword() {
    return password;
  }

  public void setPassword(String password) {
    this.password = password;
  }

  public String getAuthority() {
    return authority;
  }

  public void setAuthority(String authority) {
    this.authority = authority;
  }

  public String getMname() {
    return mname;
  }

  public void setMname(String mname) {
    this.mname = mname;
  }

  public String getMemail() {
    return memail;
  }

  public void setMemail(String memail) {
    this.memail = memail;
  }

  public String getMtel() {
    return mtel;
  }
```

```java
  public void setMtel(String mtel) {
    this.mtel = mtel;
  }

  public String getMdate() {
    return mdate;
  }

  public void setMdate(String mdate) {
    this.mdate = mdate;
  }

  public Member() {
  }

  public Member(int mid, int enabled, String username, String password, String authority, String mname, String memail,
      String mtel, String mdate) {
    this.mid = mid;
    this.enabled = enabled;
    this.username = username;
    this.password = password;
    this.authority = authority;
    this.mname = mname;
    this.memail = memail;
    this.mtel = mtel;
    this.mdate = mdate;
  }


}
```

member_SQL.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE  mapper PUBLIC "-//mybatis.org//DTD Mapper 3.0//EN" "http://mybatis.org/dtd/mybatis-3-mapper.dtd">
<mapper namespace="member">

  <insert id="insert"
    parameterType="com.glory.member.Member" useGeneratedKeys="true" keyProperty="mid">
    <![CDATA[
      INSERT INTO glorymember
      (username, password, mname, memail, mtel) VALUES (#{username}, #{password}, #{mname}, #{memail}, #{mtel})
    ]]>
  </insert>

  <select id="select_detail" parameterType="String" resultType="com.glory.member.Member">
  <![CDATA[
    SELECT * FROM glorymember WHERE mid = #{mid}
    ]]>
  </select>

  <select id="select_list" resultType="com.glory.member.Member">
  <![CDATA[
    SELECT * FROM glorymember ORDER BY mid DESC
    ]]>
  </select>

</mapper>
```

MemberRepository.java

```java
package com.glory.member;

import java.util.List;

public interface MemberRepository {

  void setNewMember(Member member);

  List<Member> getAllMemberList();

  Member getMemberById(String mId);

}
```

MemberRepositoryImpl.java

```java
package com.glory.member;

import java.util.List;

import org.mybatis.spring.SqlSessionTemplate;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Repository;

@Repository
public class MemberRepositoryImpl implements MemberRepository {

  @Autowired
  SqlSessionTemplate sqlSessionTemplate;

  @Override
  public void setNewMember(Member member) {
    this.sqlSessionTemplate.insert("member.insert", member);

  }

  @Override
  public List<Member> getAllMemberList() {
    return this.sqlSessionTemplate.selectList("member.select_list");
  }

  @Override
  public Member getMemberById(String mId) {
    return this.sqlSessionTemplate.selectOne("member.select_detail", mId);
  }

}
```

MemberService.java

```java
package com.glory.member;

import java.util.List;

public interface MemberService {

  void setNewMember(Member member);

  List<Member> getAllMemberList();

  Member getMemberById(String mid);

}
```

MemberServiceImpl.java

```java
package com.glory.member;

import java.util.List;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;

@Service
public class MemberServiceImpl implements MemberService {

  @Autowired
  private MemberRepository memberRepository;

  @Override
  public void setNewMember(Member member) {
    memberRepository.setNewMember(member);

  }

  @Override
```

```
    public List<Member> getAllMemberList() {
        return memberRepository.getAllMemberList();
    }

    @Override
    public Member getMemberById(String mid) {

        Member memberById = memberRepository.getMemberById(mid);

        return memberById;
    }

}
```

MemberController.java

```
package com.glory.member;

import java.util.HashMap;
import java.util.List;
import java.util.Map;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.ui.Model;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.ModelAttribute;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestParam;

@Controller
@RequestMapping("/member")
public class MemberController {

//  @Autowired
//  private MailService mailService;

    @Autowired
    private MemberService memberService;

//  @Autowired
//  private UserService userService;

    @GetMapping("/addMember")
    public String requestAddMemberForm(@ModelAttribute("NewMember") Member member) {
        return "members/addMember";
    }

    @PostMapping("/addMember")
    public String submitAddMemberForm(@ModelAttribute("NewMember") Member member) {

        memberService.setNewMember(member);

//      User user = userService.existUsername(board.getBwriter());

//      String to = user.getUemail();
//      String subject = board.getBwriter() + "님의 게시물이 등록되었습니다.";
//      String body = board.getBcontent();

//      mailService.sendMail(to, subject, body);


        return "redirect:/member/list";
    }

    @RequestMapping("/list")
    public String MemberList(Model model) {
        List<Member> list = memberService.getAllMemberList();
        model.addAttribute("memberList", list);
        return "members/list";
    }

    @GetMapping("/detail")
    public String requestMemberById(@RequestParam("id") String mid, Model model) {

        //view 데이터를 불러오기 전에 조회수 증가
        Map<String, Object> map = new HashMap<String, Object>();
        map.put("mid", mid);
        map.put("check", "mview");
```

```
    //주 게시물
    Member memberById = memberService.getMemberById(mid);
    model.addAttribute("member", memberById);



    return "members/member";
  }


}
```

addMember.jsp

```
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form" %>
<%-- <%@ taglib uri="http://www.springframework.org/security/tags" prefix="sec" %> --%>

<head>
  <title>회원가입</title>
  <%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
      <meta charset="utf-8">

</head>
  <!-- Google Font: Source Sans Pro -->
  <link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,400i,700&display=fallback">
  <!-- Font Awesome -->
  <link rel="stylesheet" href="/resources/admin/plugins/fontawesome-free/css/all.min.css">
  <!-- Theme style -->
  <link rel="stylesheet" href="/resources/admin/dist/css/adminlte.min.css">
<body class="text-center">
<div class="container"><h1>회원가입</h1>

<fieldset>
      <form:form modelAttribute="NewMember" action="./addMember?${_csrf.parameterName}=${_csrf.token}" class="form-horizontal" meth
  <!-- Main content -->
   <section class="content">
     <div class="row">
       <div class="col-md-6">
         <div class="card card-primary">
           <div class="card-header">
             <h3 class="card-title">General</h3>

             <div class="card-tools">
               <button type="button" class="btn btn-tool" data-card-widget="collapse" title="Collapse">
                 <i class="fas fa-minus"></i>
                 </button>
               </div>
             </div>
           <div class="card-body">
             <div class="form-group">
               <label for="inputName">아이디</label>
               <form:input path="username" class="form-control" />
             </div>
                       <div class="form-group">
               <label for="inputName">비밀번호</label>
               <form:input path="password" type="password" class="form-control" />
             </div>
                       <div class="form-group">
               <label for="inputName">이름</label>
               <form:input path="mname" class="form-control" />
             </div>
                       <div class="form-group">
               <label for="inputName">이메일</label>
               <form:input path="memail" class="form-control" />
             </div>
                       <div class="form-group">
               <label for="inputName">전화번호</label>
               <form:input path="mtel" class="form-control" />
             </div>
           </div>


           <div class="row">
       <div class="col-6">
         <a href="#" class="btn btn-secondary">취소</a>
         <input type="submit" value="등록" class="btn btn-success float-right">
       </div>
     </div>
```

```
            <!-- /.card-body -->
          </div>
          <!-- /.card -->
        </div>
</div>
</section>
      </form:form>
      </fieldset>
    </div>


<!-- jQuery -->
<script src="/resources/admin/plugins/jquery/jquery.min.js"></script>
<!-- Bootstrap 4 -->
<script src="/resources/admin/plugins/bootstrap/js/bootstrap.bundle.min.js"></script>
<!-- AdminLTE App -->
<script src="/resources/admin/dist/js/adminlte.min.js"></script>
<!-- AdminLTE for demo purposes -->
<!-- <script src="/resources/admin/dist/js/demo.js"></script> -->


</body>
</html>
```

list.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>


<link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,400i,700&display=fallback">

<link rel="stylesheet" href="/resources/admin/plugins/fontawesome-free/css/all.min.css">

<link rel="stylesheet" href="/resources/admin/plugins/datatables-bs4/css/dataTables.bootstrap4.min.css">
<link rel="stylesheet" href="/resources/admin/plugins/datatables-responsive/css/responsive.bootstrap4.min.css">
<link rel="stylesheet" href="/resources/admin/plugins/datatables-buttons/css/buttons.bootstrap4.min.css">

<link rel="stylesheet" href="/resources/admin/dist/css/adminlte.min.css?v=3.2.0">
<script nonce="ee5d093f-ace6-44b5-bf0b-1e27a02cb5bb">(function(w,d){!function(a,b,c,d){a[c]=a[c]||{};a[c].executed=[];a.zaraz={def

</head>
<body>


<div class="card">
<div class="card-header">
<h3 class="card-title">DataTable with default features</h3>
</div>

<div class="card-body">
<table id="example1" class="table table-bordered table-striped">
<thead>
<tr>
<th>Rendering engine</th>
<th>Browser</th>
<th>Platform(s)</th>
<th>Engine version</th>
<th>CSS grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trident</td>
<td>Internet
Explorer 4.0
</td>
<td>Win 95+</td>
<td> 4</td>
<td>X</td>
</tr>
<tr>
<td>Trident</td>
<td>Internet
Explorer 5.0
</td>
```

```
<td>Win 95+</td>
<td>5</td>
<td>C</td>
</tr>
<tr>
<td>Trident</td>
<td>Internet
Explorer 5.5
</td>
<td>Win 95+</td>
<td>5.5</td>
<td>A</td>
</tr>
<tr>
<td>Trident</td>
<td>Internet
Explorer 6
</td>
<td>Win 98+</td>
<td>6</td>
<td>A</td>
</tr>
<tr>
<td>Trident</td>
<td>Internet Explorer 7</td>
<td>Win XP SP2+</td>
<td>7</td>
<td>A</td>
</tr>
<tr>
<td>Trident</td>
<td>AOL browser (AOL desktop)</td>
<td>Win XP</td>
<td>6</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Firefox 1.0</td>
<td>Win 98+ / OSX.2+</td>
<td>1.7</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Firefox 1.5</td>
<td>Win 98+ / OSX.2+</td>
<td>1.8</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Firefox 2.0</td>
<td>Win 98+ / OSX.2+</td>
<td>1.8</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Firefox 3.0</td>
<td>Win 2k+ / OSX.3+</td>
<td>1.9</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Camino 1.0</td>
<td>OSX.2+</td>
<td>1.8</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Camino 1.5</td>
<td>OSX.3+</td>
<td>1.8</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Netscape 7.2</td>
<td>Win 95+ / Mac OS 8.6-9.2</td>
<td>1.7</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
```

```
<td>Netscape Browser 8</td>
<td>Win 98SE+</td>
<td>1.7</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Netscape Navigator 9</td>
<td>Win 98+ / OSX.2+</td>
<td>1.8</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Mozilla 1.0</td>
<td>Win 95+ / OSX.1+</td>
<td>1</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Mozilla 1.1</td>
<td>Win 95+ / OSX.1+</td>
<td>1.1</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Mozilla 1.2</td>
<td>Win 95+ / OSX.1+</td>
<td>1.2</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Mozilla 1.3</td>
<td>Win 95+ / OSX.1+</td>
<td>1.3</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Mozilla 1.4</td>
<td>Win 95+ / OSX.1+</td>
<td>1.4</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Mozilla 1.5</td>
<td>Win 95+ / OSX.1+</td>
<td>1.5</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Mozilla 1.6</td>
<td>Win 95+ / OSX.1+</td>
<td>1.6</td>
 <td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Mozilla 1.7</td>
<td>Win 98+ / OSX.1+</td>
<td>1.7</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Mozilla 1.8</td>
<td>Win 98+ / OSX.1+</td>
<td>1.8</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Seamonkey 1.1</td>
<td>Win 98+ / OSX.2+</td>
<td>1.8</td>
<td>A</td>
</tr>
<tr>
<td>Gecko</td>
<td>Epiphany 2.20</td>
<td>Gnome</td>
<td>1.8</td>
```

```
<td>A</td>
</tr>
<tr>
<td>Webkit</td>
<td>Safari 1.2</td>
<td>OSX.3</td>
<td>125.5</td>
<td>A</td>
</tr>
<tr>
<td>Webkit</td>
<td>Safari 1.3</td>
<td>OSX.3</td>
<td>312.8</td>
<td>A</td>
</tr>
<tr>
<td>Webkit</td>
<td>Safari 2.0</td>
<td>OSX.4+</td>
<td>419.3</td>
<td>A</td>
</tr>
<tr>
<td>Webkit</td>
<td>Safari 3.0</td>
<td>OSX.4+</td>
<td>522.1</td>
<td>A</td>
</tr>
<tr>
<td>Webkit</td>
<td>OmniWeb 5.5</td>
<td>OSX.4+</td>
<td>420</td>
<td>A</td>
</tr>
<tr>
<td>Webkit</td>
<td>iPod Touch / iPhone</td>
<td>iPod</td>
<td>420.1</td>
<td>A</td>
</tr>
<tr>
<td>Webkit</td>
<td>S60</td>
<td>S60</td>
<td>413</td>
<td>A</td>
</tr>
<tr>
<td>Presto</td>
<td>Opera 7.0</td>
<td>Win 95+ / OSX.1+</td>
<td>-</td>
<td>A</td>
</tr>
<tr>
<td>Presto</td>
<td>Opera 7.5</td>
<td>Win 95+ / OSX.2+</td>
<td>-</td>
<td>A</td>
</tr>
<tr>
<td>Presto</td>
<td>Opera 8.0</td>
<td>Win 95+ / OSX.2+</td>
<td>-</td>
<td>A</td>
</tr>
<tr>
<td>Presto</td>
<td>Opera 8.5</td>
<td>Win 95+ / OSX.2+</td>
<td>-</td>
<td>A</td>
</tr>
<tr>
<td>Presto</td>
<td>Opera 9.0</td>
<td>Win 95+ / OSX.3+</td>
<td>-</td>
<td>A</td>
</tr>
<tr>
```

```
<td>Presto</td>
<td>Opera 9.2</td>
<td>Win 88+ / OSX.3+</td>
<td>-</td>
<td>A</td>
</tr>
<tr>
<td>Presto</td>
<td>Opera 9.5</td>
<td>Win 88+ / OSX.3+</td>
<td>-</td>
<td>A</td>
</tr>
<tr>
<td>Presto</td>
<td>Opera for Wii</td>
<td>Wii</td>
<td>-</td>
<td>A</td>
</tr>
<tr>
<td>Presto</td>
<td>Nokia N800</td>
<td>N800</td>
<td>-</td>
<td>A</td>
</tr>
<tr>
<td>Presto</td>
<td>Nintendo DS browser</td>
<td>Nintendo DS</td>
<td>8.5</td>
<td>C/A<sup>1</sup></td>
</tr>
<tr>
<td>KHTML</td>
<td>Konqureror 3.1</td>
<td>KDE 3.1</td>
<td>3.1</td>
<td>C</td>
</tr>
<tr>
<td>KHTML</td>
<td>Konqureror 3.3</td>
<td>KDE 3.3</td>
<td>3.3</td>
<td>A</td>
</tr>
<tr>
<td>KHTML</td>
<td>Konqureror 3.5</td>
<td>KDE 3.5</td>
<td>3.5</td>
<td>A</td>
</tr>
<tr>
<td>Tasman</td>
<td>Internet Explorer 4.5</td>
<td>Mac OS 8-9</td>
 <td>-</td>
<td>X</td>
</tr>
<tr>
<td>Tasman</td>
<td>Internet Explorer 5.1</td>
<td>Mac OS 7.6-9</td>
<td>1</td>
<td>C</td>
</tr>
<tr>
<td>Tasman</td>
<td>Internet Explorer 5.2</td>
<td>Mac OS 8-X</td>
<td>1</td>
<td>C</td>
</tr>
<tr>
<td>Misc</td>
<td>NetFront 3.1</td>
<td>Embedded devices</td>
<td>-</td>
<td>C</td>
</tr>
<tr>
<td>Misc</td>
<td>NetFront 3.4</td>
<td>Embedded devices</td>
```

```
<td>-</td>
<td>A</td>
</tr>
<tr>
<td>Misc</td>
<td>Dillo 0.8</td>
<td>Embedded devices</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>Misc</td>
<td>Links</td>
<td>Text only</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>Misc</td>
<td>Lynx</td>
<td>Text only</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>Misc</td>
<td>IE Mobile</td>
<td>Windows Mobile 6</td>
<td>-</td>
<td>C</td>
</tr>
<tr>
<td>Misc</td>
<td>PSP browser</td>
<td>PSP</td>
<td>-</td>
<td>C</td>
</tr>
<tr>
<td>Other browsers</td>
<td>All others</td>
<td>-</td>
<td>-</td>
<td>U</td>
</tr>
</tbody>
<tfoot>
<tr>
<th>Rendering engine</th>
<th>Browser</th>
<th>Platform(s)</th>
<th>Engine version</th>
<th>CSS grade</th>
</tr>
</tfoot>
</table>
</div>

</div>


<footer class="main-footer">
<div class="float-right d-none d-sm-block">
<b>Version</b> 3.2.0
</div>
<strong>Copyright &copy; 2014-2021 <a href="https://adminlte.io">AdminLTE.io</a>.</strong> All rights reserved.
</footer>

<aside class="control-sidebar control-sidebar-dark">

</aside>


</body>

<script src="/resources/admin/plugins/jquery/jquery.min.js"></script>

<script src="/resources/admin/plugins/bootstrap/js/bootstrap.bundle.min.js"></script>

<script src="/resources/admin/plugins/datatables/jquery.dataTables.min.js"></script>
<script src="/resources/admin/plugins/datatables-bs4/js/dataTables.bootstrap4.min.js"></script>
<script src="/resources/admin/plugins/datatables-responsive/js/dataTables.responsive.min.js"></script>
<script src="/resources/admin/plugins/datatables-responsive/js/responsive.bootstrap4.min.js"></script>
<script src="/resources/admin/plugins/datatables-buttons/js/dataTables.buttons.min.js"></script>
<script src="/resources/admin/plugins/datatables-buttons/js/buttons.bootstrap4.min.js"></script>
<script src="/resources/admin/plugins/jszip/jszip.min.js"></script>
<script src="/resources/admin/plugins/pdfmake/pdfmake.min.js"></script>
```

```
<script src="/resources/admin/plugins/pdfmake/vfs_fonts.js"></script>
<script src="/resources/admin/plugins/datatables-buttons/js/buttons.html5.min.js"></script>
<script src="/resources/admin/plugins/datatables-buttons/js/buttons.print.min.js"></script>
<script src="/resources/admin/plugins/datatables-buttons/js/buttons.colVis.min.js"></script>

<script src="/resources/admin/dist/js/adminlte.min.js?v=3.2.0"></script>

<!-- <script src="/resources/admin/dist/js/demo.js"></script> -->

<script>
  $(function () {
    $("#example1").DataTable({
      "responsive": true, "lengthChange": false, "autoWidth": false,
      "buttons": ["copy", "csv", "excel", "pdf", "print", "colvis"]
    }).buttons().container().appendTo('#example1_wrapper .col-md-6:eq(0)');
    $('#example2').DataTable({
      "paging": true,
      "lengthChange": false,
      "searching": false,
      "ordering": true,
      "info": true,
      "autoWidth": false,
      "responsive": true,
    });
  });
</script>


</html>
```

header.jsp

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<title>AdminLTE 3 | DataTables</title>

<link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,400i,700&display=fallback">

<link rel="stylesheet" href="../../plugins/fontawesome-free/css/all.min.css">

<link rel="stylesheet" href="../../plugins/datatables-bs4/css/dataTables.bootstrap4.min.css">
<link rel="stylesheet" href="../../plugins/datatables-responsive/css/responsive.bootstrap4.min.css">
<link rel="stylesheet" href="../../plugins/datatables-buttons/css/buttons.bootstrap4.min.css">

<link rel="stylesheet" href="../../dist/css/adminlte.min.css?v=3.2.0">
<script nonce="ee5d093f-ace6-44b5-bf0b-1e27a02cb5bb">(function(w,d){!function(a,b,c,d){a[c]=a[c]||{};a[c].executed=[];a.zaraz={deferre
<body class="hold-transition sidebar-mini">
<div class="wrapper">

<nav class="main-header navbar navbar-expand navbar-white navbar-light">

<ul class="navbar-nav">
<li class="nav-item">
<a class="nav-link" data-widget="pushmenu" href="#" role="button"><i class="fas fa-bars"></i></a>
</li>
<li class="nav-item d-none d-sm-inline-block">
<a href="../../index3.html" class="nav-link">Home</a>
</li>
<li class="nav-item d-none d-sm-inline-block">
<a href="#" class="nav-link">Contact</a>
</li>
</ul>

<ul class="navbar-nav ml-auto">

<li class="nav-item">
<a class="nav-link" data-widget="navbar-search" href="#" role="button">
<i class="fas fa-search"></i>
</a>
<div class="navbar-search-block">
<form class="form-inline">
<div class="input-group input-group-sm">
<input class="form-control form-control-navbar" type="search" placeholder="Search" aria-label="Search">
<div class="input-group-append">
```

```
<button class="btn btn-navbar" type="submit">
<i class="fas fa-search"></i>
</button>
<button class="btn btn-navbar" type="button" data-widget="navbar-search">
<i class="fas fa-times"></i>
</button>
</div>
</div>
</form>
</div>
</li>

<li class="nav-item dropdown">
<a class="nav-link" data-toggle="dropdown" href="#">
<i class="far fa-comments"></i>
<span class="badge badge-danger navbar-badge">3</span>
</a>
<div class="dropdown-menu dropdown-menu-lg dropdown-menu-right">
<a href="#" class="dropdown-item">

<div class="media">
<img src="../../dist/img/user1-128x128.jpg" alt="User Avatar" class="img-size-50 mr-3 img-circle">
<div class="media-body">
<h3 class="dropdown-item-title">
Brad Diesel
<span class="float-right text-sm text-danger"><i class="fas fa-star"></i></span>
</h3>
<p class="text-sm">Call me whenever you can...</p>
<p class="text-sm text-muted"><i class="far fa-clock mr-1"></i> 4 Hours Ago</p>
</div>
</div>

</a>
<div class="dropdown-divider"></div>
<a href="#" class="dropdown-item">

<div class="media">
<img src="../../dist/img/user8-128x128.jpg" alt="User Avatar" class="img-size-50 img-circle mr-3">
<div class="media-body">
<h3 class="dropdown-item-title">
John Pierce
<span class="float-right text-sm text-muted"><i class="fas fa-star"></i></span>
</h3>
<p class="text-sm">I got your message bro</p>
<p class="text-sm text-muted"><i class="far fa-clock mr-1"></i> 4 Hours Ago</p>
</div>
</div>

</a>
<div class="dropdown-divider"></div>
<a href="#" class="dropdown-item">

<div class="media">
<img src="../../dist/img/user3-128x128.jpg" alt="User Avatar" class="img-size-50 img-circle mr-3">
<div class="media-body">
<h3 class="dropdown-item-title">
Nora Silvester
<span class="float-right text-sm text-warning"><i class="fas fa-star"></i></span>
</h3>
<p class="text-sm">The subject goes here</p>
<p class="text-sm text-muted"><i class="far fa-clock mr-1"></i> 4 Hours Ago</p>
</div>
</div>

</a>
<div class="dropdown-divider"></div>
<a href="#" class="dropdown-item dropdown-footer">See All Messages</a>
</div>
</li>

<li class="nav-item dropdown">
<a class="nav-link" data-toggle="dropdown" href="#">
<i class="far fa-bell"></i>
<span class="badge badge-warning navbar-badge">15</span>
</a>
<div class="dropdown-menu dropdown-menu-lg dropdown-menu-right">
<span class="dropdown-item dropdown-header">15 Notifications</span>
<div class="dropdown-divider"></div>
<a href="#" class="dropdown-item">
<i class="fas fa-envelope mr-2"></i> 4 new messages
<span class="float-right text-muted text-sm">3 mins</span>
</a>
<div class="dropdown-divider"></div>
<a href="#" class="dropdown-item">
<i class="fas fa-users mr-2"></i> 8 friend requests
<span class="float-right text-muted text-sm">12 hours</span>
</a>
```

```html
<div class="dropdown-divider"></div>
<a href="#" class="dropdown-item">
<i class="fas fa-file mr-2"></i> 3 new reports
<span class="float-right text-muted text-sm">2 days</span>
</a>
<div class="dropdown-divider"></div>
<a href="#" class="dropdown-item dropdown-footer">See All Notifications</a>
</div>
</li>
<li class="nav-item">
<a class="nav-link" data-widget="fullscreen" href="#" role="button">
<i class="fas fa-expand-arrows-alt"></i>
</a>
</li>
<li class="nav-item">
<a class="nav-link" data-widget="control-sidebar" data-slide="true" href="#" role="button">
<i class="fas fa-th-large"></i>
</a>
</li>
</ul>
</nav>


<aside class="main-sidebar sidebar-dark-primary elevation-4">

<a href="../../index3.html" class="brand-link">
<img src="../../dist/img/AdminLTELogo.png" alt="AdminLTE Logo" class="brand-image img-circle elevation-3" style="opacity: .8">
<span class="brand-text font-weight-light">AdminLTE 3</span>
</a>

<div class="sidebar">

<div class="user-panel mt-3 pb-3 mb-3 d-flex">
<div class="image">
<img src="../../dist/img/user2-160x160.jpg" class="img-circle elevation-2" alt="User Image">
</div>
<div class="info">
<a href="#" class="d-block">Alexander Pierce</a>
</div>
</div>

<div class="form-inline">
<div class="input-group" data-widget="sidebar-search">
<input class="form-control form-control-sidebar" type="search" placeholder="Search" aria-label="Search">
<div class="input-group-append">
<button class="btn btn-sidebar">
<i class="fas fa-search fa-fw"></i>
</button>
</div>
</div>
</div>

<nav class="mt-2">
<ul class="nav nav-pills nav-sidebar flex-column" data-widget="treeview" role="menu" data-accordion="false">

<li class="nav-item">
<a href="#" class="nav-link">
<i class="nav-icon fas fa-tachometer-alt"></i>
<p>
Dashboard
<i class="right fas fa-angle-left"></i>
</p>
</a>
<ul class="nav nav-treeview">
<li class="nav-item">
<a href="../../index.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Dashboard v1</p>
</a>
</li>
<li class="nav-item">
<a href="../../index2.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Dashboard v2</p>
</a>
</li>
<li class="nav-item">
<a href="../../index3.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Dashboard v3</p>
</a>
</li>
</ul>
</li>
<li class="nav-item">
<a href="../widgets.html" class="nav-link">
<i class="nav-icon fas fa-th"></i>
```

```html
<p>
Widgets
<span class="right badge badge-danger">New</span>
</p>
</a>
</li>
<li class="nav-item">
<a href="#" class="nav-link">
<i class="nav-icon fas fa-copy"></i>
<p>
Layout Options
<i class="fas fa-angle-left right"></i>
<span class="badge badge-info right">6</span>
</p>
</a>
<ul class="nav nav-treeview">
<li class="nav-item">
<a href="../layout/top-nav.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Top Navigation</p>
</a>
</li>
<li class="nav-item">
<a href="../layout/top-nav-sidebar.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Top Navigation + Sidebar</p>
</a>
</li>
<li class="nav-item">
<a href="../layout/boxed.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Boxed</p>
</a>
</li>
<li class="nav-item">
<a href="../layout/fixed-sidebar.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Fixed Sidebar</p>
</a>
</li>
<li class="nav-item">
<a href="../layout/fixed-sidebar-custom.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Fixed Sidebar <small>+ Custom Area</small></p>
</a>
</li>
<li class="nav-item">
<a href="../layout/fixed-topnav.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Fixed Navbar</p>
</a>
</li>
<li class="nav-item">
<a href="../layout/fixed-footer.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Fixed Footer</p>
</a>
</li>
<li class="nav-item">
<a href="../layout/collapsed-sidebar.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Collapsed Sidebar</p>
</a>
</li>
</ul>
</li>
<li class="nav-item">
<a href="#" class="nav-link">
<i class="nav-icon fas fa-chart-pie"></i>
<p>
 Charts
<i class="right fas fa-angle-left"></i>
</p>
</a>
<ul class="nav nav-treeview">
<li class="nav-item">
<a href="../charts/chartjs.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>ChartJS</p>
</a>
</li>
<li class="nav-item">
<a href="../charts/flot.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Flot</p>
</a>
</li>
```

```
<li class="nav-item">
<a href="../charts/inline.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Inline</p>
</a>
</li>
<li class="nav-item">
<a href="../charts/uplot.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>uPlot</p>
</a>
</li>
</ul>
</li>
<li class="nav-item">
<a href="#" class="nav-link">
<i class="nav-icon fas fa-tree"></i>
<p>
UI Elements
<i class="fas fa-angle-left right"></i>
</p>
</a>
<ul class="nav nav-treeview">
<li class="nav-item">
<a href="../UI/general.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>General</p>
</a>
</li>
<li class="nav-item">
<a href="../UI/icons.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Icons</p>
</a>
</li>
<li class="nav-item">
<a href="../UI/buttons.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Buttons</p>
</a>
</li>
<li class="nav-item">
<a href="../UI/sliders.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Sliders</p>
</a>
</li>
<li class="nav-item">
<a href="../UI/modals.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Modals & Alerts</p>
</a>
</li>
<li class="nav-item">
<a href="../UI/navbar.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Navbar & Tabs</p>
</a>
</li>
<li class="nav-item">
<a href="../UI/timeline.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Timeline</p>
</a>
</li>
<li class="nav-item">
<a href="../UI/ribbons.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Ribbons</p>
</a>
</li>
</ul>
</li>
<li class="nav-item">
<a href="#" class="nav-link">
<i class="nav-icon fas fa-edit"></i>
<p>
Forms
<i class="fas fa-angle-left right"></i>
</p>
</a>
<ul class="nav nav-treeview">
<li class="nav-item">
<a href="../forms/general.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>General Elements</p>
</a>
```

```html
</li>
<li class="nav-item">
<a href="../forms/advanced.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Advanced Elements</p>
</a>
</li>
<li class="nav-item">
<a href="../forms/editors.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Editors</p>
</a>
</li>
<li class="nav-item">
<a href="../forms/validation.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Validation</p>
</a>
</li>
</ul>
</li>
<li class="nav-item menu-open">
<a href="#" class="nav-link active">
<i class="nav-icon fas fa-table"></i>
<p>
Tables
<i class="fas fa-angle-left right"></i>
</p>
</a>
<ul class="nav nav-treeview">
<li class="nav-item">
<a href="../tables/simple.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Simple Tables</p>
</a>
</li>
<li class="nav-item">
<a href="../tables/data.html" class="nav-link active">
<i class="far fa-circle nav-icon"></i>
<p>DataTables</p>
</a>
</li>
<li class="nav-item">
<a href="../tables/jsgrid.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>jsGrid</p>
</a>
</li>
</ul>
</li>
<li class="nav-header">EXAMPLES</li>
<li class="nav-item">
<a href="../calendar.html" class="nav-link">
<i class="nav-icon far fa-calendar-alt"></i>
<p>
Calendar
<span class="badge badge-info right">2</span>
</p>
</a>
</li>
<li class="nav-item">
<a href="../gallery.html" class="nav-link">
<i class="nav-icon far fa-image"></i>
<p>
Gallery
</p>
</a>
</li>
<li class="nav-item">
<a href="../kanban.html" class="nav-link">
<i class="nav-icon fas fa-columns"></i>
<p>
Kanban Board
</p>
</a>
</li>
<li class="nav-item">
<a href="#" class="nav-link">
<i class="nav-icon far fa-envelope"></i>
<p>
Mailbox
<i class="fas fa-angle-left right"></i>
</p>
</a>
<ul class="nav nav-treeview">
<li class="nav-item">
<a href="../mailbox/mailbox.html" class="nav-link">
```

```html
<i class="far fa-circle nav-icon"></i>
<p>Inbox</p>
</a>
</li>
<li class="nav-item">
<a href="../mailbox/compose.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Compose</p>
</a>
</li>
<li class="nav-item">
<a href="../mailbox/read-mail.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Read</p>
</a>
</li>
</ul>
</li>
<li class="nav-item">
<a href="#" class="nav-link">
<i class="nav-icon fas fa-book"></i>
<p>
Pages
<i class="fas fa-angle-left right"></i>
</p>
</a>
<ul class="nav nav-treeview">
<li class="nav-item">
<a href="../examples/invoice.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Invoice</p>
</a>
</li>
<li class="nav-item">
<a href="../examples/profile.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Profile</p>
</a>
</li>
<li class="nav-item">
<a href="../examples/e-commerce.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>E-commerce</p>
</a>
</li>
<li class="nav-item">
<a href="../examples/projects.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Projects</p>
</a>
</li>
<li class="nav-item">
<a href="../examples/project-add.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Project Add</p>
</a>
</li>
<li class="nav-item">
<a href="../examples/project-edit.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Project Edit</p>
</a>
</li>
<li class="nav-item">
<a href="../examples/project-detail.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Project Detail</p>
</a>
</li>
<li class="nav-item">
<a href="../examples/contacts.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Contacts</p>
</a>
</li>
<li class="nav-item">
<a href="../examples/faq.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>FAQ</p>
</a>
</li>
<li class="nav-item">
<a href="../examples/contact-us.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Contact us</p>
</a>
</li>
```

```
</ul>
</li>
<li class="nav-item">
<a href="#" class="nav-link">
<i class="nav-icon far fa-plus-square"></i>
<p>
Extras
<i class="fas fa-angle-left right"></i>
</p>
</a>
<ul class="nav nav-treeview">
<li class="nav-item">
<a href="#" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>
Login & Register v1
<i class="fas fa-angle-left right"></i>
</p>
</a>
<ul class="nav nav-treeview">
<li class="nav-item">
<a href="../examples/login.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Login v1</p>
</a>
</li>
<li class="nav-item">
<a href="../examples/register.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Register v1</p>
</a>
</li>
<li class="nav-item">
<a href="../examples/forgot-password.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Forgot Password v1</p>
</a>
</li>
<li class="nav-item">
<a href="../examples/recover-password.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Recover Password v1</p>
</a>
</li>
</ul>
</li>
<li class="nav-item">
<a href="#" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>
Login & Register v2
<i class="fas fa-angle-left right"></i>
</p>
</a>
<ul class="nav nav-treeview">
<li class="nav-item">
<a href="../examples/login-v2.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Login v2</p>
</a>
</li>
<li class="nav-item">
<a href="../examples/register-v2.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Register v2</p>
</a>
</li>
<li class="nav-item">
<a href="../examples/forgot-password-v2.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Forgot Password v2</p>
</a>
</li>
<li class="nav-item">
<a href="../examples/recover-password-v2.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Recover Password v2</p>
</a>
</li>
</ul>
</li>
<li class="nav-item">
<a href="../examples/lockscreen.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Lockscreen</p>
</a>
</li>
```

```html
<li class="nav-item">
<a href="../examples/legacy-user-menu.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Legacy User Menu</p>
</a>
</li>
<li class="nav-item">
<a href="../examples/language-menu.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Language Menu</p>
</a>
</li>
<li class="nav-item">
<a href="../examples/404.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Error 404</p>
</a>
</li>
<li class="nav-item">
<a href="../examples/500.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Error 500</p>
</a>
</li>
<li class="nav-item">
<a href="../examples/pace.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Pace</p>
</a>
</li>
<li class="nav-item">
<a href="../examples/blank.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Blank Page</p>
</a>
</li>
<li class="nav-item">
<a href="../../starter.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Starter Page</p>
</a>
</li>
</ul>
</li>
<li class="nav-item">
<a href="#" class="nav-link">
<i class="nav-icon fas fa-search"></i>
<p>
Search
<i class="fas fa-angle-left right"></i>
</p>
</a>
<ul class="nav nav-treeview">
<li class="nav-item">
<a href="../search/simple.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Simple Search</p>
</a>
</li>
<li class="nav-item">
<a href="../search/enhanced.html" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Enhanced</p>
</a>
</li>
</ul>
</li>
<li class="nav-header">MISCELLANEOUS</li>
<li class="nav-item">
<a href="../../iframe.html" class="nav-link">
<i class="nav-icon fas fa-ellipsis-h"></i>
<p>Tabbed IFrame Plugin</p>
</a>
</li>
<li class="nav-item">
<a href="https://adminlte.io/docs/3.1/" class="nav-link">
<i class="nav-icon fas fa-file"></i>
<p>Documentation</p>
</a>
</li>
<li class="nav-header">MULTI LEVEL EXAMPLE</li>
<li class="nav-item">
<a href="#" class="nav-link">
<i class="fas fa-circle nav-icon"></i>
<p>Level 1</p>
</a>
</li>
```

```html
<li class="nav-item">
<a href="#" class="nav-link">
<i class="nav-icon fas fa-circle"></i>
<p>
Level 1
<i class="right fas fa-angle-left"></i>
</p>
</a>
<ul class="nav nav-treeview">
<li class="nav-item">
<a href="#" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Level 2</p>
</a>
</li>
<li class="nav-item">
<a href="#" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>
Level 2
<i class="right fas fa-angle-left"></i>
</p>
</a>
<ul class="nav nav-treeview">
<li class="nav-item">
<a href="#" class="nav-link">
<i class="far fa-dot-circle nav-icon"></i>
<p>Level 3</p>
</a>
</li>
<li class="nav-item">
<a href="#" class="nav-link">
<i class="far fa-dot-circle nav-icon"></i>
<p>Level 3</p>
</a>
</li>
<li class="nav-item">
<a href="#" class="nav-link">
<i class="far fa-dot-circle nav-icon"></i>
<p>Level 3</p>
</a>
</li>
</ul>
</li>
<li class="nav-item">
<a href="#" class="nav-link">
<i class="far fa-circle nav-icon"></i>
<p>Level 2</p>
</a>
</li>
</ul>
</li>
<li class="nav-item">
<a href="#" class="nav-link">
<i class="fas fa-circle nav-icon"></i>
<p>Level 1</p>
</a>
</li>
<li class="nav-header">LABELS</li>
<li class="nav-item">
<a href="#" class="nav-link">
<i class="nav-icon far fa-circle text-danger"></i>
<p class="text">Important</p>
</a>
</li>
<li class="nav-item">
<a href="#" class="nav-link">
<i class="nav-icon far fa-circle text-warning"></i>
<p>Warning</p>
</a>
</li>
<li class="nav-item">
<a href="#" class="nav-link">
<i class="nav-icon far fa-circle text-info"></i>
<p>Informational</p>
</a>
</li>
</ul>
</nav>

</div>

</aside>
```

footer.jsp

```
<footer class="main-footer">
<div class="float-right d-none d-sm-block">
<b>Version</b> 3.2.0
</div>
<strong>Copyright &copy; 2014-2021 <a href="https://adminlte.io">AdminLTE.io</a>.</strong> All rights reserved.
</footer>
```