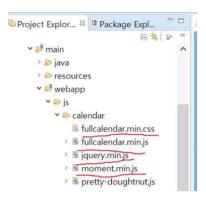
달력 & 간트차트 기술정의서

최진원

달력 = 풀캘린더 3.3.1 사용

https://github.com/fullcalendar/fullcalendar/releases 에서 3.3.1 라이브러리를 다운받고 압축을 해제한 후 필요한 js와 css를 프로젝트에 삽입



jsp에서 링크를 걸어주는데, 밑부터 3개는 나중에 추가할 팝업을 위한 링크다

```
DWorkControllerjava DWorkDaoImpljava @gantjsp DWorkVOjava @calendarjsp ™

1 <%@page contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
2 <%@taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
3 <!DOCTYPE>
4=<html>
5=<head>
6 <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
7 <title>calendar</title>
8 <link href='/js/calendar/fullcalendar.min.css' rel='stylesheet' />
9 <script src='/js/calendar/fullcalendar.min.js'></script>
10 <script src='/js/calendar/fullcalendar.min.js'></script>
11 <script src='/js/calendar/fullcalendar.min.js'></script>
12 <link href='https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css' rel='stylesheet' />
13 <script src='https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/popper.min.js'></script>
14 <script src='https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js'></script>
14 <script src='https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js'></script>
```

테스트용 예제기 때문에 간단한 VO와 dao, service, controller 코드

```
package kr.or.ddit.model;

import lombok.Data;

depublic class WorkVO {

private String GISU;
private String PROJECT;
private String TYPE;
private String TITLE;
private String STARTTIME;
private String ENDTIME;
private String ENDTIME;
private String THINKTIME;
private int PROGRESS;
```

```
1 package kr.or.ddit.dao;
3@import java.util.List;
5 import org.apache.ibatis.session.SqlSession;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Repository;
9 import kr.or.ddit.model.WorkVO;
0 @Repository
2 public class WorkDaoImpl implements WorkDao {
     @Autowired
SqlSession sql;
     public List<WorkVO> list() {
   return sql.selectList("Work.list");
dao
package kr.or.ddit.service;
*import java.util.List;
@Service
public class WorkServiceImpl implements WorkService {
      @Autowired
     WorkDao dao;
e @Override
     public List<WorkVO> list() {
          return dao.list();
service
 @Controller
public class WorkController {
      @Autowired
      WorkService service;
      @RequestMapping(value="/")
      public String index() {
           return "index";
      @RequestMapping(value="/calendar")
      public String calendar(Model model) {
           List<WorkVO> list = service.list();
model.addAttribute("list", list);
           return "calendar";
```

controller

```
<<mapper namespace="Work">
     <select id="list" resultType="Work">
SELECT * FROM TEAMWORK
      </select>
 </mapper>
xml
dao, service, vo, xml은 간트차트도 공유.
-css, body-
<style>
     html, body {
        margin: 0;
          padding: 0;
          font-family: "Lucida Grande", Helvetica, Arial, Verdana, sans-serif;
          font-size: 14px;
     #calendar {
          max-width: 900px;
          margin: 40px auto;
</style>
</head>
<body>
     <div id='calendar'></div>
</body>
</html>
---is코드----
필요한 데이터를 받아서 dataset에 배열로 넣어줌. 빨간부분은 라이브러리 데모에서 복사해서
붙여넣은 캘린더 기본코드
(script>
    var dataset = [
        <c:forEach var="list" items="${list}" varStatus="status">
                "id":'<c:out value="${list.TYPE}"/>',
"title":'<c:out value="${list.TITLE}"/>',
"start":'<c:out value="${list.STARTTIME}"/>',
"end":'<c:out value="${list.ENDTIME}"/>'
             <c:if test="${!status.last}">,</c:if>
        </c:forEach>
    $ (document) . ready (function() {
        $('#calendar').fullCalendar({
            header: {
    left: 'prev,next today',
    center: 'title',
    right: 'month,basicWeek,basicDay'
            defaultDate: new Date(),
            navLinks: true,
            editable: false,
            eventLimit: true,
            events: dataset
```

});

</script>

빨간 - 표시데이터가 5개가 넘을시 +more로 표시되는 옵션 추가 파란 - 마우스호버시 상세 팝업 옵션 추가

```
$ (document) .ready(function() {
    $('#calendar').fullCalendar({
         header: {
              left: 'prev, next today',
              center: 'title',
              right: 'month, basicWeek, basicDay'
         defaultDate: new Date(),
         navLinks: true, editable: false,
         eventLimit: true,
         wiews:{
              agenda:{
                   eventLimit:5
         →,
         events: dataset,
          eventRender: function (events, element) {
              element.popover({
                   title: events.id,
                   content: events.title,
trigger: 'hover',
placement: 'top',
container: 'body'
     });
});
```

참고사이트

http://forest71.tistory.com/119

-----여기서부터 간트차트-----

간트차트는 구글 간트차트를 사용.

** 테스트예제기 때문에 vo, dao, service, xml은 풀캘린더와 공유해서 쓰도록함 controller 와 jsp도 캘린더와 유사한부분이 많기 때문에 어렵지않음!

controller - 캘린더와 똑같..

```
@RequestMapping(value="/gant")
public String gant(Model model) {
   List<WorkVO> list = service.list();
   model.addAttribute("list", list);

   return "gant";
}
```

구글간트차트를 쓰기위한 링크추가 필수 - 빨간줄

```
<script type="text/javascript" src="https://www.gstatic.com/charts/loader.js"></script>
<script type="text/javascript"></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></scr
                      google.charts.load('current', {
    'packages' : [ 'gantt' ]
                       google.charts.setOnLoadCallback(drawChart);
                       function drawChart() {
                                             var data = new google.visualization.DataTable();
data.addColumm('string', 'Task ID');
data.addColumm('string', 'Task Name');
data.addColumm('string', 'Resource');
data.addColumm('date', 'Start Date');
data.addColumm('date', 'End Date');
data.addColumm('number', 'Duration');
data.addColumn('number', 'Percent Complete');
data.addColumn('string', 'Dependencies');
                                               data.addRows([
                                                                                                          <c:forEach var="list" items="${list}" varStatus="status">
                                                                                                                    ">:!rotracm value="${list.PROJECT}"/>',
   '<c:out value="${list.TITLE}"/>',
   '<c:out value="${list.TITLE}"/>',
   '<c:out value="${list.TYPE]"/>',
   new Date(<c:out value="${list.STARTTIME}"/>),
   new Date(<c:out value="${list.ENDTIME}"/>),
   null,
                                                                                                                          null,
<c:out value="${list.PROGRESS}"/>,
                                                                                                                           null
                                                                                                                          c:if test="${!status.last}">,</c:if>
                       ]);
var options = {
height : 400,
                                                     gantt : {
                                                                            trackHeight : 30
                                 var chart = new google.visualization.Gantt(document
    .getElementById('chart_div'));
                                chart.draw(data, options);
```

주의할점은 정해준 컬럼에 맞게 로우데이터가 나와야한다. 데이터를 갖고오는 방법은 JSON을 쓰는게 좋지만 테스트예제기 때문에 간단하게 구현함.

body

```
<body>
     <h1>진원s Gant</h1>
     <div id="chart_div"></div>
</body>
```

참고사이트

https://developers.google.com/chart/interactive/docs/gallery/ganttchart

달력이나 간트나 다른 다양한 옵션을 참고하고싶으면 참고사이트 참조