数据观星模块

需要引入的资源: 百度 Echarts--基于 JavaScript 的数据可视化图表库。

需求描述: 从加载页面的时候,就向后台服务器发送请求,然后将得到的数据项加载到可视化组件中。

数据项: 注册人数、失物数、找回数、召回率、四种状态、启示按月统计...

1 数据可视化后台接口实现

返回值: Map 对象 @RestController public class DataCountsController { @Resource private PostService postService; @Resource private UserService userService; @Resource private TypeService typeService; @RequestMapping("/datacounts") public Map dataCounts(){ * 注册用户数、启示数量、找回数量、丢失数量、召回率(找回/丢失)、归档(按照月份统 计数量), * 每个分类数量, 词云渲染(拟, 还没实现) Map m = new HashMap();//统计找回数量 int swzl = postService.getCountsByFlagAndStatus(1,0);//失物招领 完成 1 0 int xuqs = postService.getCountsByFlagAndStatus(0,0);//寻物启事 完成 0 0 m.put("swzl",swzl); m.put("xuqs",xuqs); int found = swzl+xuqs; //统计丢失数量 int wswzl = postService.getCountsByFlagAndStatus(1,1);//失物招领 未完成 1 1 int wxwqs = postService.getCountsByFlagAndStatus(0,1);//寻物启事 未完成 0 1 m.put("wswz1",wswz1); m.put("wxwqs",wxwqs); int loss = wswzl+wxwqs; double rate = (double)found/loss; m.put("found",found); m.put("loss",loss); DecimalFormat df = new DecimalFormat("#.00"); m.put("rate",df.format(rate*100));

```
//统计用户注册数
       int userNum = userService.getUserNum();
       m.put("userNum",userNum);
       //统计20年12月的启示数量
       int post 12 = postService.getCountsByMon("2020-12-01 00:00:00","2020-12-31
00:00:00");
       m.put("post_12",post_12);
       //统计21 年1 月的启示数量
       int post_01 = postService.getCountsByMon("2021-01-01 00:00:00","2021-01-31
00:00:00");
       m.put("post_01",post_01);
       //统计21年2月的启示数量
       int post 02 = postService.getCountsByMon("2021-02-01 00:00","2021-02-28
00:00:00");
       m.put("post_02",post_02);
       //统计21 年3 月的启示数量
       int post 03 = postService.getCountsByMon("2021-03-01 00:00","2021-03-31
00:00:00");
       m.put("post_03",post_03);
       //统计21 年4 月的启示数量
       int post 04 = postService.getCountsByMon("2021-04-01 00:00:00","2021-04-30
00:00:00");
       m.put("post_04",post_04);
       //统计21 年5 月的启示数量
       int post 05 = postService.getCountsByMon("2021-05-01 00:00","2021-05-31
00:00:00");
       m.put("post 05",post 05);
       //丢失物品分类信息
       //查询分类信息 并统计分类相关的 post 数量
       List<TypeVo> typeVoList = typeService.getCountsByType();
       m.put("typeVoList",typeVoList);
       return m;
   }
}
```

2 前端页面的处理

1、引入资源

```
<script type="text/javascript" src="js/echarts.min.js"></script>
<script type="text/javascript" src="js/echarts-wordcloud.min.js"></script>
```

2、放置组件

```
<div class="ui stackable grid">
    <div class="eight wide column">
       <!-- 日历插件-->
        <div class="ui segments">
           <div class="ui secondary segment">
               <div class="ui two column grid">
                   <div class="column">
                       <i class="chart line icon"></i>启示数据
                   </div>
               </div>
            </div>
            <div id="postByMon" style="...">
            </div>
        </div>
    </div>
    <div class="eight wide column">
       <!-- 可视化百度echart插件-->
        <div class="ui segments">
           <div class="ui secondary segment">
               <div class="ui two column grid">
                   <div class="column">
                       <i class="briefcase icon"></i>物品信息
                   </div>
               </div>
            </div>
           <div id="chartDiv" style="...">
```

3、发送请求与渲染

```
//向后台发送请求
       axios.post('http://127.0.0.1:8888/datacounts').then(function (response) {
           var data = response.data;
           // console.log(data);
           //console.log( data.wxwqs);
           document.getElementById("rate").innerHTML = data.rate;
           //渲染统计图
          var myChart = echarts.init(document.getElementById("chartDiv"));//饼状图
          var myChart2 = echarts.init(document.getElementById("chartDiv2"));//饼状
图
          var myChart3 = echarts.init(document.getElementById("postByMon"));//折线
图
          var myChart5 = echarts.init(document.getElementById("tagsDiv"));//分类信
息
          //console.log(myChart);
           //统计图的配置项和数据
          myChart.setOption({
               tooltip: {},
               toolbox:{
                   show:true,
```

```
feature:{
           saveAsImage:{
               show:true
           }
       }
   },
   series: [{
       radius: 35,
       type: 'pie',
       data: [{name: '已经找到',value: data.wxwqs},
              {name: '暂未找到',value: data.xuqs},
              {name: '等待认领',value: data.wswzl},
              {name: '已经认领',value: data.swzl}]
   }]
});
console.log(data.typeVoList[0].counts)
myChart2.setOption({
   toolbox:{
       show:true,
       feature:{
           saveAsImage:{
               show:true
           }
       }
   },
   tooltip: {},
   series: [{
       radius: 35,
       type: 'pie',
       data: [{name: '找回物品',value: data.found},
              {name: '丢失物品',value: data.loss}
   }]
});
myChart3.setOption({
   //标题
  title:{
   text:'月统计'
   },
   //工具箱
  //保存图片
  tooltip: {},
   toolbox:{
       show:true,
       feature:{
           saveAsImage:{
               show:true
           }
       }
   },
   //图例-每一条数据的名字叫销量
  legend:{
       data:['数量']
   },
```

```
//x 轴
             xAxis:{
                  data:["12月","1月","2月","3月","4月","5月"]
              },
              //y 轴没有显式设置,根据值自动生成 y 轴
             yAxis:{},
              //数据-data 是最终要显示的数据
             series:[{
                  name:'数量',
                  type: 'line',
                  areaStyle: {
                      normal: {}
                  },
data:[data.post_12,data.post_01,data.post_02,data.post_03,data.post_04,data.post_0
5]
              }]
           });
           //用户数据部分
          var chartDom = document.getElementById('typecloud');
           var myChart = echarts.init(chartDom);
           var option;
           option = {
              toolbox:{
                  show:true,
                  feature:{
                      saveAsImage:{
                          show:true
                      }
                  }
              },
              tooltip: {
                  },
              series: [{
                  name: '用户',
                  type: 'gauge',
                  progress: {
                      show: true
                  },
                  detail: {
                      valueAnimation: true,
                      formatter: '{value}'
                  },
                  data: [{
                      value: data.userNum,
                      name: '在线用户'
                  }]
              }]
           };
           option && myChart.setOption(option);
           //console.log(data.typeVoList[0].typeName);
           //分类别统计
```

```
myChart5.setOption({
                toolbox:{
                    show:true,
                    feature:{
                        saveAsImage:{
                             show:true
                        }
                    }
                },
                tooltip: {},
                legend: {
                    data:['数量']
                },
                xAxis: {
                    data: [data.typeVoList[0].typeName,data.typeVoList[1].typeName,
                    data.typeVoList[2].typeName,data.typeVoList[3].typeName]
                },
                yAxis: {}, series: [{
                    name: '数量',
                    type: 'bar',
                    data: [data.typeVoList[0].counts,data.typeVoList[1].counts,
                    data.typeVoList[2].counts,data.typeVoList[3].counts]
                }]
});
        }).catch(function (error) {})
```