

## 4-29 实现考勤成功页面（业务层）

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上一小节，我们在**Dao**中声明了三个抽象的方法，于是现在我们要在业务层定义三个方法，分别对应**Dao**的三个抽象方法。

编写 **CheckinService.java** 接口，声明三个抽象方法。

```
1. public interface CheckinService {  
2.     .....  
3.     public HashMap searchTodayCheckin(int userId);  
4.     public long searchCheckinDays(int userId);  
5.     public ArrayList<HashMap> searchWeekCheckin(HashMap param);  
6. }
```

在 **CheckinServiceImpl.java** 类中，实现三个抽象方法。



```

1. public class CheckinServiceImpl implements CheckinService {
2.     .....
3.     @Override
4.     public HashMap searchTodayCheckin(int userId) {
5.         HashMap map = checkinDao.searchTodayCheckin(userId);
6.         return map;
7.     }
8.     @Override
9.     public long searchCheckinDays(int userId) {
10.        long days = checkinDao.searchCheckinDays(userId);
11.        return days;
12.    }
13.    @Override
14.    public ArrayList<HashMap> searchWeekCheckin(HashMap param) {
15.        ArrayList<HashMap> checkinList = checkinDao.searchWeekCheckin(param);
16.        ArrayList<String> holidaysList = holidaysDao.searchHolidaysInRange(param);
17.        ArrayList<String> workdayList = workdayDao.searchWorkdayInRange(param);
18.        DateTime startDate = DateUtil.parseDate(param.get("startDate").toString());
19.        DateTime endDate = DateUtil.parseDate(param.get("endDate").toString());
20.        DateRange range = DateUtil.range(startDate, endDate, DateField.DAY_OF_MONTH);
21.        ArrayList list = new ArrayList();
22.        range.forEach(one -> {
23.            String date = one.toString("yyyy-MM-dd");
24.            //查看今天是不是假期或者工作日
25.            String type = "工作日";
26.            if (one.isWeekend()) {
27.                type = "节假日";
28.            }
29.            if (holidaysList != null && holidaysList.contains(date)) {
30.                type = "节假日";
31.            } else if (workdayList != null && workdayList.contains(date)) {
32.                type = "工作日";
33.            }
34.            String status = "";
35.            if (type.equals("工作日") && DateUtil.compare(one, DateUtil.date()) <= 0) {
36.                status = "缺勤";
37.                boolean flag=false;
38.                for (HashMap<String, String> map : checkinList) {
39.                    if (map.containsKey(date)) {
40.                        status = map.get("status");
41.                        flag=true;
42.                        break;
43.                    }
44.                    DateTime endTime=DateUtil.parse(DateUtil.today()+"
"+constants.attendanceEndTime);
45.                    String today=DateUtil.today();
46.                    if(date.equals(today)&&DateUtil.date().isBefore(endTime)&&flag==false)
47.                        status="";
48.                }
49.            }
50.        }
51.        HashMap map = new HashMap();
52.        map.put("date", date);
53.        map.put("status", status);

```

```
54.         map.put("type", type);
55.         map.put("day", one.dayOfWeekEnum().toChinese("周"));
56.         list.add(map);
57.     });
58.     return list;
59. }
60. }
```

