

5-5 设计消息模块的业务层

140.143.132.225:8000/project-1/doc-90

一、定义Message业务接口

I MessageService		
(m)	insertMessage(MessageEntity)	String
(m)	inserRef(MessageRefEntity)	String
(m)	searchUnreadCount(int)	long
(m)	searchLastCount(int)	long
(m)	searchMessageByPage(int, long, int)	List<HashMap>
(m)	searchMessageById(String)	HashMap
(m)	updateUnreadMessage(String)	long
(m)	deleteMessageRefById(String)	long
(m)	deleteUserMessageRef(int)	long

创建 `MessageService.java` 类

```
1. public interface MessageService {  
2.     public String insertMessage(MessageEntity entity);  
3.     public String inserRef(MessageRefEntity entity);  
4.     public long searchUnreadCount(int userId);  
5.     public long searchLastCount(int userId);  
6.     public List<HashMap> searchMessageByPage(int userId, long start, int length) ;  
7.     public HashMap searchMessageById(String id);  
8.     public long updateUnreadMessage(String id) ;  
9.     public long deleteMessageRefById(String id);  
10.    public long deleteUserMessageRef(int userId);  
11. }
```

二、定义Message业务实现类

C MessageServiceImpl		
f	messageDao	MessageDao
f	messageRefDao	MessageRefDao
(m)	insertMessage(MessageEntity)	String
(m)	inserRef(MessageRefEntity)	String
(m)	searchUnreadCount(int)	long
(m)	searchLastCount(int)	long
(m)	searchMessageByPage(int, long, int)	List<HashMap>
(m)	searchMessageById(String)	HashMap
(m)	updateUnreadMessage(String)	long
(m)	deleteMessageRefById(String)	long
(m)	deleteUserMessageRef(int)	long

创建 `MessageServiceImpl.java` 类

```
1. @Service
2. public class MessageServiceImpl implements MessageService {
3.     @Autowired
4.     private MessageDao messageDao;
5.     @Autowired
6.     private MessageRefDao messageRefDao;
7.     @Override
8.     public String insertMessage(MessageEntity entity) {
9.         String id = messageDao.insert(entity);
10.        return id;
11.    }
12.    @Override
13.    public String inserRef(MessageRefEntity entity) {
14.        String id = messageRefDao.insert(entity);
15.        return id;
16.    }
17.    @Override
18.    public long searchUnreadCount(int userId) {
19.        long count = messageRefDao.searchUnreadCount(userId);
20.        return count;
21.    }
22.    @Override
23.    public long searchLastCount(int userId) {
24.        long count = messageRefDao.searchLastCount(userId);
25.        return count;
26.    }
27.    @Override
28.    public List<HashMap> searchMessageByPage(int userId, long start, int length) {
29.        List<HashMap> list = messageDao.searchMessageByPage(userId, start, length);
30.        return list;
31.    }
32.    @Override
33.    public HashMap searchMessageById(String id) {
34.        HashMap map = messageDao.searchMessageById(id);
35.        return map;
36.    }
37.    @Override
38.    public long updateUnreadMessage(String id) {
39.        long rows = messageRefDao.updateUnreadMessage(id);
40.        return rows;
41.    }
42.    @Override
43.    public long deleteMessageRefById(String id) {
44.        long rows = messageRefDao.deleteMessageRefById(id);
45.        return rows;
46.    }
47.    @Override
48.    public long deleteUserMessageRef(int userId) {
49.        long rows=messageRefDao.deleteUserMessageRef(userId);
50.        return rows;
51.    }
52. }
```

