

获取指定用户（user1）的标签：

```
C:\Users\Fan>curl http://localhost:8000/users/user1/tags
{"status":"成功","message":"成功获取标签","data":{"user_id":"user1","tags":["acg"]}}
```

如果用户没有标签：

```
C:\Users\Fan>curl http://localhost:8000/users/user2/tags
{"status":"成功","message":"用户没有标签","data":{"user_id":"user2","tags":[]}}
```

为用户添加标签：

```
C:\Users\Fan\PycharmProjects\网易任务1>curl -X POST http://localhost:8000/users/user3/tags -H "Content-Type: application/json" -d '{"tags": ["摇滚乐迷","交响乐爱好者","ACG爱好者"]}'
{"status":"成功","message":"标签添加成功","data":{"user_id":"user3","tags":["交响乐爱好者","ACG爱好者","摇滚乐迷"]}}
```

如果用户不存在：

```
C:\Users\Fan>curl http://localhost:8000/users/user6/tags
{"status":"成功","message":"用户不存在","data":{"user_id":"user6","tags":[]}}
```

添加用户标签：

```
C:\Users\Fan>curl -X POST http://localhost:8000/users/user6/tags -H "Content-Type: application/json" -d '{"tags": ["交响乐","摇滚"]}'
{"status":"成功","message":"标签添加成功","data":{"user_id":"user6","tags":["摇滚","交响乐"]}}
C:\Users\Fan>curl http://localhost:8000/users/user6/tags
{"status":"成功","message":"成功获取标签","data":{"user_id":"user6","tags":["摇滚","交响乐"]}}
C:\Users\Fan>
```

删除用户标签：

```
C:\Users\Fan\PycharmProjects\网易任务1>curl -X DELETE http://localhost:8000/users/user3/tags/交响乐爱好者
{"status":"成功","message":"成功删除标签 '交响乐爱好者'","data":{"user_id":"user3","removed_tag":"交响乐爱好者"}}
```

按照标签筛选用户：

```
C:\Users\Fan\PycharmProjects\网易任务1>curl http://localhost:8000/tags/摇滚乐迷/users
{"status":"成功","message":"成功获取拥有标签 '摇滚乐迷' 的用户","data":{"tag":"摇滚乐迷","users":["user3","user4"]}}
```

显示所有标签：

```
C:\Users\Fan\PycharmProjects\网易任务1>curl http://localhost:8000/tags
{"status":"成功","message":"成功获取所有标签","data":{"tags":["acg","音乐发烧友","摇滚爱好者","交响乐","摇滚","pink floyd","ac/dc","The Verve","Beatles","万能青年旅店","摇滚乐迷","ACG爱好者"]}}
```

显示所有用户：

```
C:\Users\Fan\PycharmProjects\网易任务1>curl http://localhost:8000/users
{"status":"成功","message":"成功获取所有用户","data":{"users":["user1","user2","user3","user4","user5","user123","user6","user7"]}}
```

显示所有有标签和没有标签的用户：

```
C:\Users\Fan\PycharmProjects\网易任务1>powershell -ExecutionPolicy Bypass -File list_users.ps1
Users with tags:
-----
user1 - Tags: acg
user123 - Tags: æ»»ç±â¥è, é²ä¹âç§â
user6 - Tags: ä°µää¹, æ»»
user7 - Tags: Beatles, ac/dc, pink floyd, ä,è¼éâ¹'æâ°, The Verve

Users without tags:
-----
user2
user3
user4
user5

Statistics:
Total users: 8
Users with tags: 4
Users without tags: 4
```

创建没有标签的用户：

创建用户

请输入新用户ID

创建没有标签的用户

获取用户标签

user7

查询

用户标签：

此用户没有标签

API响应：

```
{
  "status": "成功",
  "message": "用户没有标签",
  "data": {
    "user_id": "user7",
    "tags": []
  }
}
```

为用户添加标签：

添加标签

+

pink floyd ×

ac/dc ×

The Verve ×

Beatles ×

万能青年旅店 ×

保存标签

获取特定用户的标签

获取用户标签

查询

用户标签：

Beatles ac/dc pink floyd 万能青年旅店 The Verve

API响应：

```
{
  "status": "成功",
  "message": "成功获取标签",
  "data": {
    "user_id": "user7",
    "tags": [
      "Beatles",
      "ac/dc",
      "pink floyd",
      "万能青年旅店",
      "The Verve"
    ]
  }
}
```

显示所有用户和存在的标签：

系统信息

获取所有用户

系统中的用户：

user3
user4
user5
user123
user6

获取所有标签

系统中的标签：

acg 音乐发烧友 摇滚爱好者 交响乐 摇滚
pink floyd ac/dc The Verve Beatles 万能青年旅店