| **接口路径** | **请求方法** | **请求头** | **请求参数/请求体** | **描述** | **返回格式示例** |
| --- | --- | --- | --- | --- | --- |
| **http://106.15.28.195:8113/api/user/register** | POST | 无 | **{**  **"name": "testuser", "password": "123456", "category": "NORMAL"**  **}** | 用户注册 | **{**  **"uid": "9c1dd87b-986d-41c4-8fb1-cbe404e273fc",**  **"name": "testuser4",**  **"category": "NORMAL",**  **"password": null,**  **"createTime": "2025-05-10T10:08:29.210+00:00"**  **}** |
| **http://106.15.28.195:8113/api/user/login** | POST | 无 | **{**  **"name": "testuser", "password": "123456"**  **}** | 用户登录 | **{ "token": "JWT" }** |
| **http://106.15.28.195:8113/api/user/info** | GET | Authorization: Bearer JWT | name: 用户名 | 获取用户信息 | **{ "userInfo": { "uid": "ed9fa561-b560-4b5b-b8af-91d6852c62ed", "name": "testuser", "category": "VIP", "createTime": "2025-05-08T12:25:27.000+00:00", "vipStartTime": "2025-05-10T09:35:03.000+00:00", "vipEndTime": "2025-06-10T09:35:03.000+00:00", "isVipActive": true, "dailyLimit": 200, "usedToday": 0, "remainingUsage": 200 } }** |
| **http://106.15.28.195:8113/api/user/update** | PUT | Authorization: Bearer JWT | **{**  **"uid": "xxx",**  **"name": "newname",**  **"password": "newpassword",**  **"category": "VIP"**  **}** | 更新用户信息 | **{ "message": "更新成功" }** |
| **http://106.15.28.195:8113/api/user/delete** | DELETE | Authorization: Bearer JWT | name: 用户名 | 删除用户 | **{ "message": "删除成功" }** |
| **http://106.15.28.195:8113/api/user-quota/upgrade-vip** | POST | Authorization: Bearer JWT | name: 用户名 请求体:  **{**  **"vipKey": "xxx"**  **}** | 升级为VIP | **{**  **"success": true,**  **"message": "成功升级到VIP用户",**  **"category": "VIP",**  **"dailyLimit": 200, "vipStartTime": "2025-05-10T09:35:03.000+00:00",**  **"vipEndTime": "2025-06-10T09:35:03.000+00:00"**  **}** |
| **http://106.15.28.195:8113/api/user-quota/renew-vip** | POST | Authorization: Bearer JWT | name: 用户名 请求体:  **{**  **"vipKey": "xxx"**  **}** | VIP续费 | **{**  **"success": true,**  **"message": "VIP续费成功",**  **"newVipEndTime": "2025-07-10T09:35:03.000+00:00"**  **}** |
| **http://106.15.28.195:8113/api/user-quota/admin/vip-remove** | POST | Authorization: Bearer JWT | **{**  **"toRemove": "username",**  **"reason": "原因"**  **}** | 管理员降级VIP | **{**  **"success": true,**  **"message": "已成功将用户 username 降级为普通用户"**  **}** |