1. Method

GET： 获取资源

POST：创建资源

PUT： 修改资源

DELETE：删除资源

1. 返回值：

|  |  |  |
| --- | --- | --- |
| **HTTP Status Code** | **Name** | **Description** |
| 200 | OK | 操作成功 |
| 201 | Created | 创建资源成功 |
| 400 | Bad Request | 发送的数据语法有误，导致服务器无法理解请求信息 |
| 401 | Unauthorized | 用户没有操作权限 |
| 404 | Not Found | 没有找到请求的资源 |
| 405 | Method Not Allowed | URI不接受请求的方法 |
| 409 | Conflict | 创建资源冲突，因为要创建的资源已经存在 |
| 500 | Internal Server Error | 服务器遭遇异常阻止了当前请求的执行 |

1. 详细说明：

|  |  |  |
| --- | --- | --- |
| 操作 | Method | 资源名称 |
| 登录/登出/心跳 | PUT | [/api/state](#state) |
| 区域列表 | GET\POST | [/api/region](#region) |
| 区域信息 | GET\PUT\DELETE | [/api/region/id](#region_info) |
| 用户列表 | GET\POST | [/api/user](#user) |
| 用户信息 | GET\PUT\DELETE | [/api/user/id](#user_info) |
| 发送消息 | POST | [/api/transaction](#trans) |

* 1. 登录/登出/心跳

|  |  |
| --- | --- |
| URI | /api/state/type |
| Description | 用户登录(1)、登出(2)、心跳(3) |
| Methods | PUT – 改变用户状态 |

举例：

|  |  |
| --- | --- |
| 发送 | PUT /api/state/1 HTTP/1.1  Host: 10.20.35.20:27090  Connection: keep-alive  Content-Length: 141  Content-Type: application/xml  Accept: application/xml  <?xml version='1.0' encoding='utf-8'?>  <root>  <user\_name>1</ user\_name >  <user\_password>222</user\_password>  <user\_ip>10.20.35.20</user\_ip>  </root>  或者(登出、心跳)  <?xml version='1.0' encoding='utf-8'?>  <root>  <user\_id>1</ user\_id >  </root> |
| 返回 | HTTP/1.1 200 OK  Content-Type: application/xml  Content-Length: 569  <?xml version='1.0' encoding='utf-8'?>  <root>  <result>1</result>  <result\_msg>wrong password</result\_msg>  <user\_id>2</user\_id>  </root> |

* 1. 区域列表

|  |  |
| --- | --- |
| URI | /api/region |
| Description | 区域列表资源 |
| Methods | GET – 获取区域列表  POST – 新建区域 |

举例：

|  |  |
| --- | --- |
| 发送 | GET /api /region HTTP/1.1  Host: 10.20.35.20:27090  Connection: keep-alive  Content-Length: 141  Content-Type: application/xml  Accept: application/xml |
| 返回 | HTTP/1.1 200 OK  Content-Type: application/xml  Content-Length: 569  <?xml version='1.0' encoding='utf-8'?>  <reiong\_list>  <region>  <region\_id>1</region\_id>  <region\_name>quyu</region\_name>  <parent\_id>0</parent\_id>  </region>  <region>  <region\_id>2</region\_id>  <region\_name>quyu1</region\_name>  <parent\_id>1</parent\_id>  </region>  </reiong\_list> |

|  |  |
| --- | --- |
| 发送 | POST /api /region HTTP/1.1  Host: 10.20.35.20:27090  Connection: keep-alive  Content-Length: 141  Content-Type: application/xml  Accept: application/xml  <?xml version='1.0' encoding='utf-8'?>  <region>  <name>测试区域</name>  <parent\_id>1</parent\_id>  </region> |
| 返回 | HTTP/1.1 200 OK  Content-Type: application/xml  Content-Length: 569 |

* 1. 区域信息

|  |  |
| --- | --- |
| URI | /api/region/id |
| Description | 区域信息 |
| Methods | GET – 获取区域信息  PUT – 修改区域信息  DELETE – 删除区域 |

举例：

|  |  |
| --- | --- |
| 发送 | GET /api /region/2 HTTP/1.1  Host: 10.20.35.20:27090  Connection: keep-alive  Content-Length: 141  Content-Type: application/xml  Accept: application/xml |
| 返回 | HTTP/1.1 200 OK  Content-Type: application/xml  Content-Length: 569  <?xml version='1.0' encoding='utf-8'?>  <region>  <region\_id>1</region\_id>  <region\_name>quyu</region\_name>  <parent\_id>0</parent\_id>  </region> |

|  |  |
| --- | --- |
| 发送 | PUT /api /region/2 HTTP/1.1  Host: 10.20.35.20:27090  Connection: keep-alive  Content-Length: 141  Content-Type: application/xml  Accept: application/xml  <?xml version='1.0' encoding='utf-8'?>  <region>  <region\_id>1</region\_id>  <region\_name>QUYU3</region\_name>  <parent\_id>0</parent\_id>  </region> |
| 返回 | HTTP/1.1 200 OK  Content-Type: application/xml  Content-Length: 569 |

|  |  |
| --- | --- |
| 发送 | DELETE /api /region/2 HTTP/1.1  Host: 10.20.35.20:27090  Connection: keep-alive  Content-Length: 141  Content-Type: application/xml  Accept: application/xml |
| 返回 | HTTP/1.1 200 OK  Content-Type: application/xml  Content-Length: 569 |

* 1. 用户列表

|  |  |
| --- | --- |
| **URI** | /api/region/id/user |
| **Description** | 用户列表 |
| **Methods** | GET – 获取用户列表  POST – 新建用户 |

举例：

|  |  |
| --- | --- |
| 发送 | GET /api/region/id/user HTTP/1.1  Host: 10.20.35.20:27090  Connection: keep-alive  Content-Length: 141  Content-Type: application/xml  Accept: application/xml |
| 返回 | HTTP/1.1 200 OK  Content-Type: application/xml  Content-Length: 569  <?xml version='1.0' encoding='utf-8'?>  <user\_list>  <user>  <user\_id>1</region\_id>  <parent\_id>0</parent\_id>  <user\_name>yonghu</region\_name>  <user\_ip>10.20.35.20</user\_ip>  <display\_name>XXX</display\_name>  <config>  <bubble>1</bubble>  <sound>1</sound>  <font\_color>111</font\_color>  <font\_family>yahei</font\_family>  <font\_size>10</font\_size>  <auto\_login>1</auto\_login>  </config>  </user>  <user>  <user\_id>12</region\_id>  <parent\_id>0</parent\_id>  <user\_name>yonghu2</region\_name>  <user\_ip>10.20.35.20</user\_ip>  <display\_name>XXX</display\_name>  <config>  <bubble>1</bubble>  <sound>1</sound>  <font\_color>111</font\_color>  <font\_family>yahei</font\_family>  <font\_size>10</font\_size>  <auto\_login>1</auto\_login>  </config>  </user>  </user\_list> |

* 1. 用户信息

|  |  |
| --- | --- |
| **URI** | /api /user/id |
| **Description** | 用户信息 |
| **Methods** | GET – 获取用户信息  PUT – 修改用户信息  DELETE – 删除用户 |

举例：

|  |  |
| --- | --- |
| 发送 | GET /api /user HTTP/1.1  Host: 10.20.35.20:27090  Connection: keep-alive  Content-Length: 141  Content-Type: application/xml  Accept: application/xml |
| 返回 | HTTP/1.1 200 OK  Content-Type: application/xml  Content-Length: 569  <?xml version='1.0' encoding='utf-8'?>  <user>  <user\_id>1</region\_id>  <parent\_id>0</parent\_id>  <user\_name>yonghu</region\_name>  <user\_ip>10.20.35.20</user\_ip>  <display\_name>XXX</display\_name>  <config>  <bubble>1</bubble>  <sound>1</sound>  <font\_color>111</font\_color>  <font\_family>yahei</font\_family>  <font\_size>10</font\_size>  <auto\_login>1</auto\_login>  </config>  </user> |

* 1. 发送消息

|  |  |
| --- | --- |
| **URI** | /api /transaction |
| **Description** | 转发消息 |
| **Methods** |  |