## 通信协议：

基本操作（注册、登陆、下线）typecode: 0~999.

注册：

|  |  |  |
| --- | --- | --- |
| Type | Content | note |
| Request | {“typecode”:1,“username”:”name”,”tel”:”12345678901”,”password”:”\*\*\*\*\*”} | 注册信息 |
| Response | {“typecode”:500,”username”:“name”} | 注册成功 |
| {“typecode”:501} | 注册失败，该用户名或电话号码已注册 |
| {“typecode”:502} | 注册失败（请稍后再次尝试） |

登陆：

|  |  |  |
| --- | --- | --- |
| Type | Content | note |
| Request | {“typecode”:10,“username”:”name”,”password”:”\*\*\*”} | 使用username登陆 |
| {“typecode”:11,”tel”:”12345678901”,”password”:”\*\*\*”} | 使用电话号码登陆 |
| {“typecode”:12,”tel”:”12345678901”,”password”:””} | 用未注册的电话号码登陆 |
| Response | {“typecode”:510} | 登陆成功 |
| {“typecode”:511} | 登陆失败，密码错误 |
| {“typecode”:512} | 登陆失败，用户名未注册，  请注册后再登陆 |
| {“typecode”:513} | 登陆失败，该电话号码已注册。  （针对用电话号码未提供密码的用户） |
| {“typecode”:514} | 登陆失败（请稍后再次尝试） |

导引：

|  |  |  |
| --- | --- | --- |
| Type | Content | note |
| Request | {“typecode”:1010, ”srcnode”:int,”desnode”:int} | 导引 |
| Response | {“typecode”:1510, path:{[“node”:int,”nodename”:string][..]}} | 导引成功 |
| {“typecode”:1511} | 导引失败 |

查询操作typecode:2000~2999.

乘车口查询：

|  |  |  |
| --- | --- | --- |
| Type | Content | note |
| Request | {“typecode”:1020,“  ”to”:”chengdu”,  ”date”:{“year”:2014, ”month”:11, ”day”:28}  “car\_num”:”CA1206”} | 只需一个 |
| Response | {“typecode”:1520,  “car\_exit”:“N10”，  time:{  num:2  “time1:{  go: {“hour”:7,”minite”:00}, //departure time  end:{“hour”:12,”minite”:56}, // arrival time  }  “time2”:{  go: {“hour”:14,”minite”:00}, //departure time  end:{“hour”:17,”minite”:56}, // arrival time  }  } | 查询成功 |
| {“typecode”:1521} | 查询失败 |

票务信息查询：

|  |  |  |
| --- | --- | --- |
| Type | Content | note |
| Request | “typecode”:1030,  ”form”:”chengdu”, //source  ”to”:”Chengdu”, //destination  ”date”:{“year”:2014, ”month”:11, ”day”:28}  “class”:1  “man”:student/common } //后两个可选 | 查询票务信息 |
| Response | {“typecode”:1531,  “train”:  {“num”: 3  “train1”:{“car\_num” :C101,  “car\_exit”:“N10”，  “go”: {“hour”:07,”minite”:00}, //departu1re time  “end”:{“hour”:12,”miniet”:56}, // arrival time  “dur”:{“hour”: 05,”minite”:36}， //duration  “tickets\_num”:{[“class1”:1],[“class2”:4],[“class3”:6]}  }  “train2”:{….}  “train3”:{….}  }  “bus”:  {“num”: 2  “bus1”:{“car\_num” :116,  “car\_exit”:“N10”，  “go”: {“hour”:07,”minite”:00}, //departure time  “end”:{“hour”:12,”miniet”:56}, // arrival time  “dur”:{“hour”: 05,”minite”:36}，  “tickets\_num”:{[“class1”:1],[“class2”:4],[“class3”:6]}  }  “bus2”:{….}  }  “others”:  {  num: 2  others1:{  “car\_num “:116,  “car\_exit”:“N10”，  “go”: {“hour”:07,”minite”:00}, //departure time  “end”:{“hour”:12,”miniet”:56}, // arrival time  “dur”:{“hour”: 05,”minite”:36}， //duration  “tickets\_num”:{[“class1”:1],[“class2”:4],[“class3”:6]}  }  others2:{….}  }  } | 查询成功 |
| {“typecode”:153} | 查询失败 |

wifi定位：

|  |  |  |
| --- | --- | --- |
| Type | Content | note |
| Request | {“typecode”:1040, ”RSSI”:”rssi”} | 导引 |
| {“typecode”:1042, ”RSSI”:”rssi”} | 不在地图页面，不用返回定位信息 |
| Response | {“typecode”:1540, “x”:12,”y”:12} | 导引成功 |
| {“typecode”:1541} | 导引失败 |

**历史记录**

查询:

|  |  |  |
| --- | --- | --- |
| Type | Content | note |
| Request | {“typecode”:1060, “username”:”name”, ”start\_item”:20, “last\_item”:24} | 查询倒数第start\_item到第last\_item条历史记录 |
| Response | {“typecode”:1560,”history\_items”: {[ “date”:”2015-03-17”,  “starttime”:”15:45”,  “endtime”:”17:23”,  “mapid”:23,  “path”:{[“x”:1, “y”:3, “time”:”13:15”], [“x”:3, “y”:5, “time”:”13:35”]…}],  [”date”:”2015-07-07”,  “starttime”:16:45,  “endtime”:17:23,  “mapid”:23,  “path”:”{[“x”:1, ”y”:2, “time”:”13:45”], [“x”:3, “y”: 4, “time”:”13:46”], [“x”:4, “y”:5, “time”:”13:47”]]  …..}  “nums”:5} | 查询成功  nums为成功条数(当nums小于Request条数时，表示数据库中数据已读取完) |
|  |  |
|  | {“typecode”:1561} | 查询失败 |

删除：

|  |  |  |
| --- | --- | --- |
| Type | Content | note |
| Request | {“typecode”:1070, “username”:”name”} | 删除所有历史记录 |
| Response | {“typecode”:1570} | 删除成功 |
| {“typecode”:1571} | 删除失败 |
| Request | {“typecode”:1075,“username”:”name”,  “date”:”2015-07-07”,  “starttime”:”17:24”,  “endtime”:”18:23”} | 删除特定历史记录 |
| Response | {“typecode”:1575} | 删除成功 |
| {“typecode”:1576} | 删除失败 |