Flask RestAPI

一．安装flask_restful
pip install flask_restful -i http://mirrors.aliyun.com/pypi/simple/ --trusted-host mirrors.aliyun.com

二．一个简单的restapi示例代码：

In [ ]:

```python
from flask import Flask
from flask_restful import Api
from flask_restful import Resource
app = Flask(__name__)
api = Api(app)
class HelloWorld(Resource):
    def get(self):
        return {'hello': 'world'}
api.add_resource(HelloWorld, '/', '/hello')
if __name__ == '__main__':
    app.run(debug=True, host='0.0.0.0', port=8902)
```

测试：

```
[root@backup-platform ~]# curl http://172.16.70.233:8902
{
    "hello": "world"
}
[root@backup-platform ~]# curl http://172.16.70.233:8902/hello
{
    "hello": "world"
}
```

三.通过restapi实现数据CURD

示例代码：

In [ ]:

```python
from flask import Flask, request
from flask_restful import Api
from flask_restful import Resource

app = Flask(__name__)
api = Api(app)

tasks = {
    'todo1': {'foo': "bar"},
    'todo2': {'tom': "cat"},
    'todo3': {"hello": "world"}
}

class HelloWorld(Resource):
    def get(self):
        t_id = request.args.get('t_id', '')
        if not t_id:
            return tasks
        return tasks.get(t_id, {})

    def post(self):
        t_id = request.form.get('t_id', '')
        value = request.form.get("value", {})
        tasks[t_id] = value
        return 'set new value success!'

    def put(self):
        t_id = request.form.get('t_id', '')
        value = request.form.get('value', '')
        tasks[t_id] = value
        return 'edit new value success!'

    def delete(self):
        t_id = request.form.get('t_id', '')
        tasks.pop(t_id)
        return 'delete t_id %s success'%t_id

api.add_resource(HelloWorld, '/')

if __name__ == '__main__':
    app.run(debug=True, host='0.0.0.0', port=8902)
```

测试:

发送Get请求获取指定ID资源

```
[root@backup-platform ~]# curl http://172.16.70.233:8902?t_id=todo1
{
    "foo": "bar"
}
```

发送Get请求获取所有资源

```
[root@backup-platform ~]# curl http://172.16.70.233:8902
{
    "todo1": {
        "foo": "bar"
    },
    "todo2": {
        "tom": "cat"
    },
    "todo3": {
        "hello": "world"
    },
    "todo4": "hello"
}
```

发送PUT请求修改资源

```
[root@backup-platform ~]# curl http://172.16.70.233:8902 -X PUT -d "t_id=todo4&value=hello"
"edit new value success!"
```

发送DELETE请求删除资源

```
[root@backup-platform ~]# curl http://172.16.70.233:8902 -X DELETE -d "t_id=todo1"
"delete t_id todo1 success"
```

In [ ]: