Flask 重构版项目说明

项目结构：

```
├── app.py
├── disease
|   ├── __init__.py
|   ├── __pycache__
|   ├── disease.py
|   └── functions.py
├── gene
|   ├── __init__.py
|   ├── __pycache__
|   ├── functions.py
|   └── gene.py
├── static
├── symptom
|   ├── __init__.py
|   ├── __pycache__
|   ├── functions.py
|   └── symptom.py
├── templates
└── tools
    ├── __init__.py
    ├── __pycache__
    ├── encoder.py
    ├── link.py
    ├── neo4j.py
    ├── node.py
    └── utils.py
```

说明：

- 依旧分模块，tools 中新增 utils.py 文件用于放置通用的查询方法
- 每个模块下fucntions.py 文件用于存放该模块专属的查询方法
- 每个模块对应的名称的文件，如 gene下的gene.py文件，进行路由和request的处理
- app.py 进行统一的路由分发和配置

举例说明

gene.py

- name: 当前模块的名称，用于后续的 blueprint 创建和参数调用
- gene_bp: blueprint, flask 使用 blueprint 实现模块化
- 在每个方法中获取json后进行对应的搜索方法的调用

```python
from tools import utils
from flask import Blueprint, request

name = 'gene'
gene_bp = Blueprint(name, __name__)


@gene_bp.route('/search', methods=['POST'])
def search():
    # 获取 json 数据
    req_params = request.get_json()
    return utils.search(req_params, name)


@gene_bp.route('/links', methods=['POST'])
def links():
    # 获取 json 数据
    req_params = request.get_json()
    return utils.links(req_params, name)


@gene_bp.route('/list', methods=['POST'])
def disease_list():
    # 获取 json 数据
    req_params = request.get_json()
    return utils.get_disease_list(req_params, name)


@gene_bp.route('/statistics', methods=['POST'])
def statistics():
    # 获取 json 数据
    req_params = request.get_json()
    return utils.get_statistics(req_params, name)
```

app.py

注册 blueprint，从而进行路由分发

```python
from flask import Flask
from gene.gene import gene_bp
from disease.disease import disease_bp
from symptom.symptom import symptom_bp

app = Flask(__name__)
app.register_blueprint(gene_bp, url_prefix='/gene')
app.register_blueprint(symptom_bp, url_prefix='/symptom')
app.register_blueprint(disease_bp, url_prefix='/disease')


```

```python
@app.route('/')
def hello_world():
    return 'Hello World!'


if __name__ == '__main__':
    app.run()
```

运行

执行如下命令即可运行开发服务器

```
python app.py
```

目前重构的接口

```
gene:
    /search
    /list
    /links
    /statistics
symptom:
    /search
    /list
    /links
    /statistics
disease:
    /search
    /list
    /links
    /statistics
    /graph
```