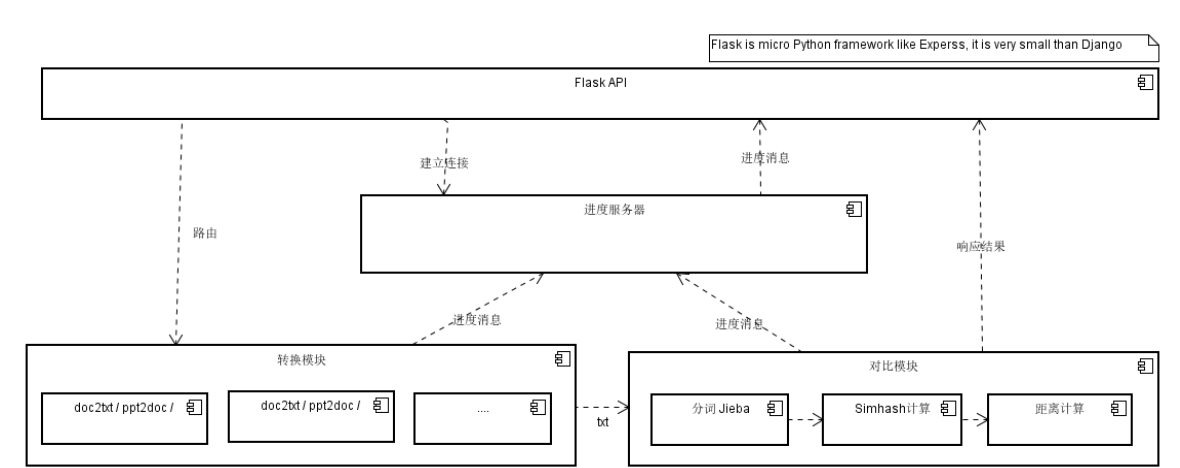


班级内文章对比查重系统

使用 simihash 算法, 对班级内的文章进行查重对比。

系统架构



核心算法

simhash

How to test

```
python test.py
```

Docker

Repo

registry.cn-chengdu.aliyuncs.com/sunwu/arktao.textcompare:v0.1.11

run

```
docker run -p 8217:8000 -itd --restart always --privileged --name
arktao.textcomparev0.1.11 registry.cn-
chengdu.aliyuncs.com/sunwu/arktao.textcompare:v0.1.11
```

RestFul API

host

122.114.95.64:8217

文章对比

POST /v1/html

req

```
{
  "type": "html",
  "distance": 20,
  "uid": "sunwutest", //用于获取识别进度
  "papers": [
    {
      "name": "zhangsan",
      "sno": "2019201964",
      "papername": "if i was a boy",
      "content": "<h1>if i was a boy, i will go to fly like a bird</h1>"
    },
    {
      "name": "zhangsan",
      "sno": "2019201963",
      "papername": "if i was a boy",
      "content": "<h1>if i was a boy, i will go to fly like a bird</h1>"
    },
    {
      "name": "zhangsan",
      "sno": "2019201962",
      "papername": "if i was a boy",
      "content": "<h1>if i was a boy, i will go to fly like a bird</h1>"
    }
  ]
}
```

res

```
{
  "code": "成功",
  "data": {
    "2019201961": [
      {
        "distance": -1,
        "name": "zhangsan",
        "papername": "if i was a boysss",
        "sno": "2019201961"
      },
      {
        "distance": 8,
        "name": "zhangsan",
        "papername": "if i was a boy",
        "percent": 77.77777777777779,
        "sno": "2019201963"
      }
    ]
  }
}
```

```

},
{
  "distance": 8,
  "name": "zhangsan",
  "papername": "if i was a boy",
  "percent": 77.7777777777779,
  "sno": "2019201964"
},
{
  "distance": 8,
  "name": "zhangsan",
  "papername": "if i was a boy",
  "percent": 77.7777777777779,
  "sno": "2019201962"
}
],
"2019201962": [
  {
    "distance": -1,
    "name": "zhangsan",
    "papername": "if i was a boy",
    "sno": "2019201962"
  },
  {
    "distance": 0,
    "name": "zhangsan",
    "papername": "if i was a boy",
    "percent": 100.0,
    "sno": "2019201963"
  },
  {
    "distance": 0,
    "name": "zhangsan",
    "papername": "if i was a boy",
    "percent": 100.0,
    "sno": "2019201964"
  },
  {
    "distance": 8,
    "name": "zhangsan",
    "papername": "if i was a boysss",
    "percent": 77.7777777777779,
    "sno": "2019201961"
  }
],
"2019201963": [
  {
    "distance": -1,
    "name": "zhangsan",
    "papername": "if i was a boy",
    "sno": "2019201963"
  },
  {
    "distance": 0,
    "name": "zhangsan",
    "papername": "if i was a boy",
    "percent": 100.0,
    "sno": "2019201964"
  }
]

```

```

    },
    {
      "distance": 0,
      "name": "zhangsan",
      "papername": "if i was a boy",
      "percent": 100.0,
      "sno": "2019201962"
    },
    {
      "distance": 8,
      "name": "zhangsan",
      "papername": "if i was a boysss",
      "percent": 77.7777777777779,
      "sno": "2019201961"
    }
  ],
  "2019201964": [
    {
      "distance": -1,
      "name": "zhangsan",
      "papername": "if i was a boy",
      "sno": "2019201964"
    },
    {
      "distance": 0,
      "name": "zhangsan",
      "papername": "if i was a boy",
      "percent": 100.0,
      "sno": "2019201963"
    },
    {
      "distance": 0,
      "name": "zhangsan",
      "papername": "if i was a boy",
      "percent": 100.0,
      "sno": "2019201962"
    },
    {
      "distance": 8,
      "name": "zhangsan",
      "papername": "if i was a boysss",
      "percent": 77.7777777777779,
      "sno": "2019201961"
    }
  ]
},
"message": "成功",
"status": 200,
"type": "sshd"
}

```

note

```

"type": "html", // 文章类型
"distance":20, //判定距离
"papers": [ //文章

```

获取进度

连接进度服务器

进度服务器用户，先使用指定用户名连接进度服务器，用于接受进度。如下 uid 表示用户的名称，接受进度的时候要用到。

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Title</title>
</head>
<body>
<script src='http://cdn.bootcss.com/socket.io/1.3.7/socket.io.js'></script>
<script>

  // 初始化io对象
  var socket = io('wss://ppt2img_socket.lessonplan.cn:8202');

  // uid 用户的uid
  var uid = "sunwutest";

  //发送连接进度服务器请求
  socket.on('connect', function () {
    socket.emit('connect_progress', uid);
  });

  //服务器返回进度信息,这里不返回图片信息
  socket.on('progress_msg', function (msg) {
    console.log(JSON.parse(msg));
  });
</script>
</body>
</html>
```

进度内容

```
{
  "msg": "进度消息",
  "code": 0, // 状态码, -1: 错误, 0: 正确
  "progress": 100.0 //进度消息, 有效范围[0,100]
}
```

已配置

服务自动恢复

宕机时间最多一分钟, 服务挂了之后会自启