

# Django RestAPI

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关于我

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上海钢铁交易中心

成立于**2013**年

国内最大的钢厂电商

单日成交量**40,000**吨以上

单日交易额**180,000,000**左右

单日站内搜索**10,000,000**次以上

## 平台技术架构

nginx + gunicorn + Django

Oracle + ElasticSearch + Redis

splunk                      Node.js                      celery

大规模Python集群

系统承载目前毫无压力

Python函数直接转换成HTTP

无需配置urls.py

无需编写Django view

自动提取Request参数

简化错误处理

## RestAPI更多...

自动生成接口调用文档

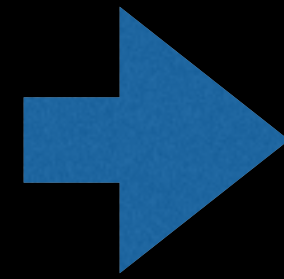
自动JS客户端，包括jQuery和AngularJS

全功能API调试接口

API性能测试和分析

# RestAPI案例

```
from restapi.decorators import api  
  
@api  
def helloworld():  
    return "hello world!"
```





# RestAPI案例

```
28 @api
29 def helloworld():
30     """
31     |   this is the hello world api
32     |   welcome to rest api
33     """
34     return "hello world!"
35
36 @api(types={'a': float, 'b': float})
37 def calculate(a, b):
38     """
39     |   calculate + - * / of two numbers
40     """
41     return {
42         |   'add': a + b,
43         |   'sub': a - b,
44         |   'multi': a * b,
45         |   'div': a / b
46     }
```



# RestAPI案例

The screenshot shows a web browser window with the address bar at `localhost:8000/api/`. The page title is "API documentation". The browser's taskbar shows several open applications: "应用", "Instant Client downlo...", "在库资源管理-上海钢铁", "django - Gunicorn wo...", and "Ganglia:: unspecified".

The main content area is titled "全局" (Global). It lists two API endpoints:

- calculate** calculate + - \* / of two numbers  
URL pattern: `^calculate/$`
- helloworld** this is the hello world api welcome to rest api  
URL pattern: `^helloworld/$`

The "calculate" endpoint is detailed with a table of parameters:

参数	类型	默认
a	float	必填
b	float	必填

On the right side of the page, there is a vertical sidebar with the title "全局" and two items: "calculate" and "helloworld".

# RestAPI案例

The screenshot shows a web browser window with the address bar at `localhost:8000/api/debug/`. The browser's taskbar includes icons for '应用', 'Instant Client downlo', '在库资源管理-上海钢钒', 'django - Gunicorn w', and 'Ganglia:: unspecified'.

The main content area is titled 'API' and contains the following fields:

- 模块 (Module):** A dropdown menu with 'None' selected.
- 函数 (Function):** A dropdown menu with 'calculate' selected.
- 参数 (Parameters):** A table with two rows:

名称	类型	值
a	float	<input type="text"/>
b	float	<input type="text"/>

Below the parameters are two buttons: a blue button with a trash icon and a green button with a play icon.

The interface is split into two columns for request and response details:

- 请求 (Request):**
  - URL:** `calculate/`
  - Request body:**

```
{
  "a": "",
  "b": ""
}
```
- 响应 (Response):**
  - Status:**
  - Response body:**

# RestAPI案例

The screenshot shows a REST API client interface with the following components:

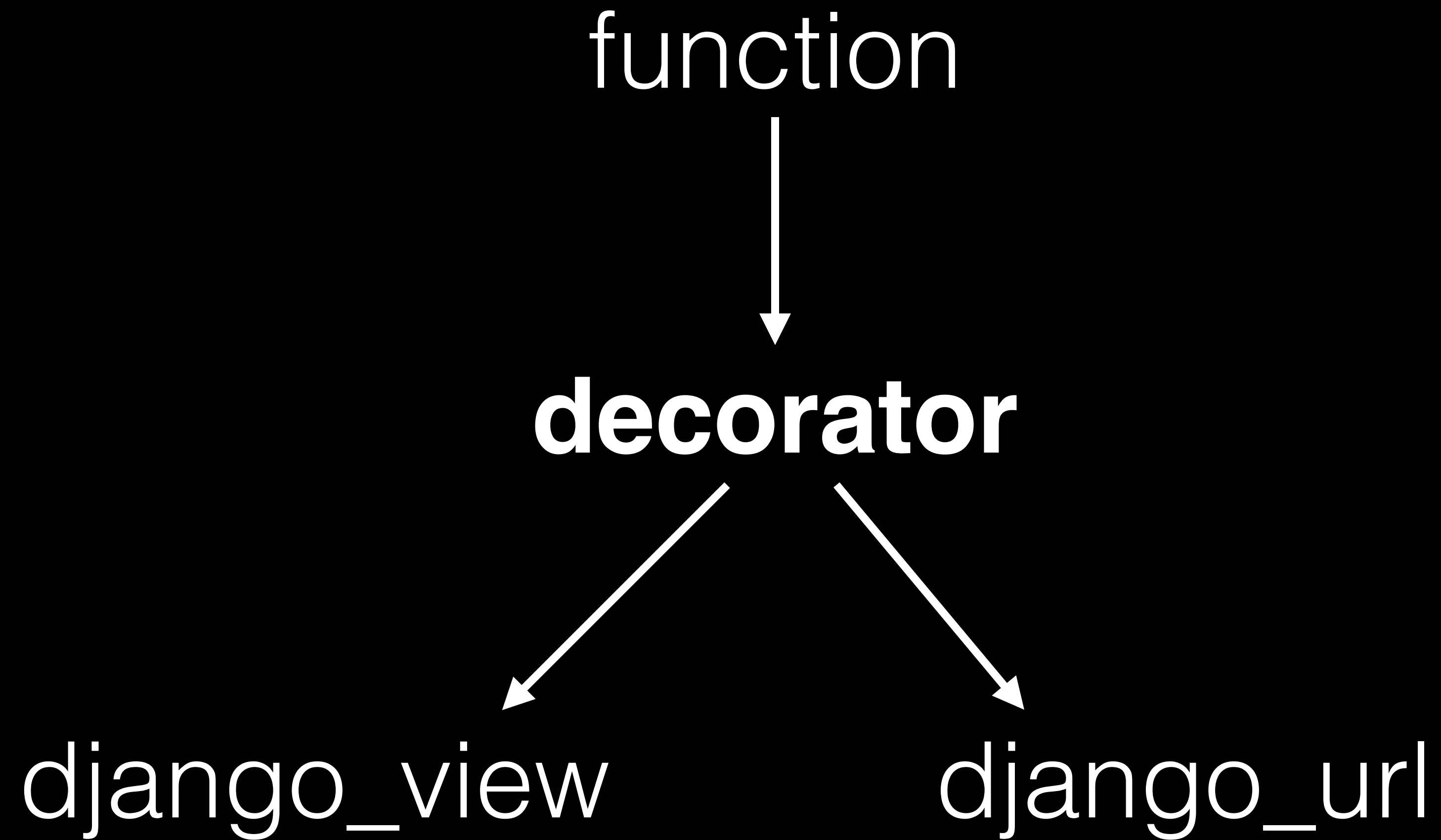
- API Section:**
  - 模块 (Module):** None
  - 函数 (Function):** calculate
  - 参数 (Parameters):**

a	float	1.00
b	float	5.00
- Request Section (请求):**
  - URL:** calculate/
  - Request body:**

```
{
  "a": "1.00",
  "b": "5.00"
}
```
- Response Section (响应):**
  - Status:** 200
  - Response body:**

```
{
  "multi": 5,
  "add": 6,
  "div": 0.2,
  "sub": -4
}
```

Additional details from the interface include a top navigation bar with the URL `localhost:8000/api/debug/`, browser tabs for 'Instant Client downl...', '在庫资源管理-上海钢铁', 'django - Gunicorn w...', and 'Ganglia:: unspecified'. A right-hand sidebar shows a status bar with '200', 'None', and 'calculate', along with a refresh icon.



inspect function



name, param, type, result

感谢您的聆听！



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