

登录



2019年05月04日 阅读 448

关注

Flask框架从入门到精通之模板宏(十九)

知识点: 1、宏的基本使用

一、概况

在Flask的模板中有一个特性和Django内不同,这个特性就是宏。宏的功能和python中的函数类似。

声明宏

```
{% macro 宏的名字(参数) %}
内容
{% endmacro %}
```

调用宏

```
{{ 宏的名字(参数) }}
```

在python函数可以实现代码复用的作用,在模板中宏也有类似的作用。

二、使用

创建一个Flask项目,并在模型声明如下代码:

• 无参宏

```
{% macro_input() %}

输入框:<input type="text"> <br>
{% endmacro %}

{#调用#}

{{ macro_input() }}

{{ macro_input() }}

</body>
</html>
```

我们在浏览器调试一下:



• 有参宏

```
复制代码
<!doctype html>
<html lang="en">
<head>
 <meta charset="UTF-8">
  <meta name="viewport"
    content="width=device-width, user-scalable=no, initial-scale=1.0, maximum-scale=1.0, minimum-scale=1.0">
  <meta http-equiv="X-UA-Compatible" content="ie=edge">
  <title>Document</title>
</head>
<body>
{#声明#}
{% macro macro_input(tip,type,name) %}
  {\{\{ tip \}\}}< input type="{\{ type \}\}}" name="{\{ name \}}"> <br>
{% endmacro %}
{#调用#}
{{ macro_input('账号:','text','email') }}
{{ macro_input('密码:','password','pwd') }}
</body>
</html>
```



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```
账号: "
<input type="text" name="email">
<br>
<br>
"

密码: "
<input type="password" name="pwd">
<br>
<br>
<br>
```

https://jikedaohang.blog.csdn.net

• 缺省宏

```
复制代码
<!doctype html>
<html lang="en">
 <head>
                 <meta charset="UTF-8">
                   <meta name="viewport"
                                               content = "width = device-width, user-scalable = no, initial-scale = 1.0, maximum-scale = 1.0, minimum-scale = 1.0" > 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 1.0 + 
                 <meta http-equiv="X-UA-Compatible" content="ie=edge">
                 <title>Document</title>
 </head>
<body>
 {#声明#}
 {% macro macro_input(tip,type,name,value='123') %}
                   \label{tip} $$ = {\{ tip \}} \le p = {\{ type \}} " name = {\{ name \}} " value = {\{ value \}} " \le br \le p = {\{ tip \}} " value = {\{ value \}} " \le br \le p = {\{ tip \}} " value = {\{ value \}} " \le br \le p = {\{ tip \}} " value = {\{ value \}} " \le br \le p = {\{ value \}} " value = {\{ value \}} " = {\{ value \}} 
 {% endmacro %}
 {#调用#}
 {{ macro_input('账号:','text','email') }}
 {{ macro_input('密码:','password','pwd','123456789') }}
</body>
 </html>
```





```
账号: "
<input type="text" name="email" value="123">
<br/>
<br/>
"

密码: "
<input type="password" name="pwd" value="123456789">
<br/>
<br/>
<br/>
<br/>
Input type="password" name="pwd" value="123456789">
<br/>
<br/>
<br/>
Input type="password" name="pwd" value="123456789">
<br/>
<br/>
Input type="password" name="pwd" value="123456789">
```

三、导入宏

宏的定义可以声明在另一个html中,然后通过import这种方式导入进来使用。新建一个html文件,声明如下代码:

```
{#声明#}
{% macro macro_input(tip,type,name,value='123') %}

{{ tip }}<input type="{{ type }}" name="{{ name }}" value="{{ value }}"><br>
{% endmacro %}
```

注意虽然是html文件,但是没有html文件的结构。

```
复制代码
<!doctype html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport"
      content="width=device-width, user-scalable=no, initial-scale=1.0, maximum-scale=1.0, minimum-scale=1.0">
  <meta http-equiv="X-UA-Compatible" content="ie=edge">
  <title>Document</title>
</head>
<body>
\label{eq:common_macro.html' import macro_input \%} $$ \{\% from 'common_macro.html' import macro_input \% \}
{#别名#}
{#{% from 'common_macro.html' import macro_input as input %}#}
{#调用#}
{{ macro_input('账号:','text','email') }}
{{ macro_input('密码:','password','pwd','123456789') }}
</body>
</html>
```

四、宏的内部变量

• varargs: 这是一个列表。如果调用宏时传入的参数多于宏声明时的参数,多出来的没指定参数名的参数就会保存在这个列表中。

• kwargs:这是一个字典。如果调用宏时传入的参数多于宏声明时的参数,多出来的指定了参数名的参数就会保存在这个字典中。

```
复制代码
<!doctype html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport"
     content="width=device-width, user-scalable=no, initial-scale=1.0, maximum-scale=1.0, minimum-scale=1.0">
  <meta http-equiv="X-UA-Compatible" content="ie=edge">
  <title>Document</title>
</head>
<body>
{#声明#}
{% macro macro_input(tip,type,name,value='123') %}
  {{ tip }}<input type="{{ type }}" name="{{ name }}" value="{{ value }}"> <br>
  <br >>{{ varargs }}
  <br />br> {{ kwargs }}<br/>br>
{% endmacro %}
{{ macro_input('账号:','text','email',11,22,33,44,age=12) }}
{{ macro_input('密码:','password','pwd','123456789') }}
</body>
</html>
```

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