
表单 数据验证

(*) show.html

```
<html>
<body>
<form name="frm" action="/" method="post">
{{form.as_p}}
    <input type="submit" value="login">
</form>
{{user}},{{age}},{{tel}}
</body>
</html>
```

(*) views.py

```
from django.http import HttpResponseRedirect
from django.shortcuts import render, redirect
from demo.forms import LoginForm

def show(request):
    if request.method=="POST":
        form=LoginForm(request.POST)
        if form.is_valid():
            name=request.POST.get("name")
            sex=request.POST.get("sex")
            age=request.POST.get("age")
        else:
            user=""
            age=""
            tel=""
            errors=form.errors
    else:
        form=LoginForm()
    return render(request,"show.html",locals())
```

(*) forms.py

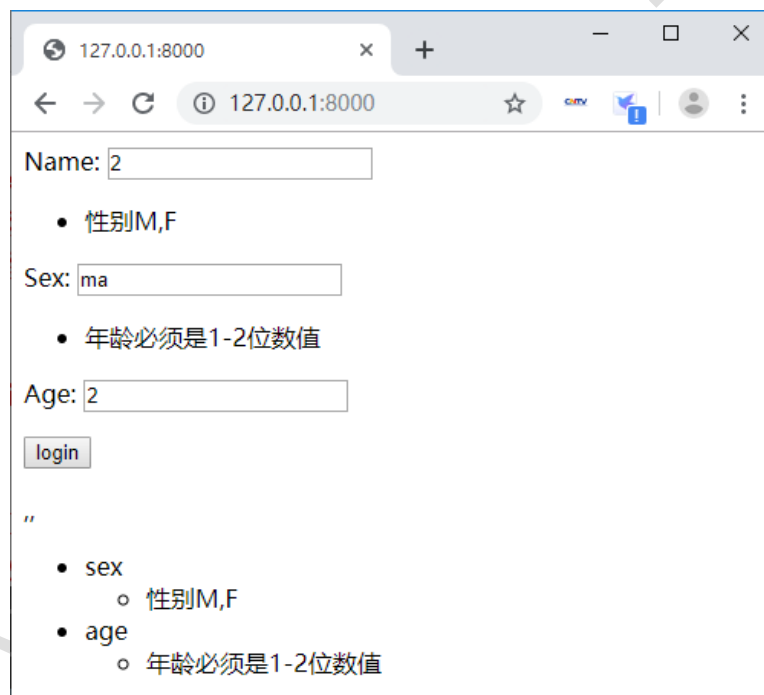
```
from django import forms
from django.core.validators import RegexValidator
import re
```

```
class LoginForm(forms.Form):
    name=forms.CharField(label="Name",required=True)
    sex=forms.CharField(label="Sex",max_length=2,validators=[RegexValidator(r"[M,F]", "性别 M,F")])
    age=forms.CharField(label="Age",max_length=2,validators=[RegexValidator(r"[0-9]{2}", "年龄必须是 2 位数值")])
```

(*)

`age=forms.CharField(label="Age",max_length=2,validators=[RegexValidator(r"[0-9]{2}", "年龄必须是 2 位数值")])`
使用系统的 `RegexValidator` 函数进行验证

(*) 验证不通过时还是能提交的，因此验证是在服务器端进行的，不是在客户端进行！



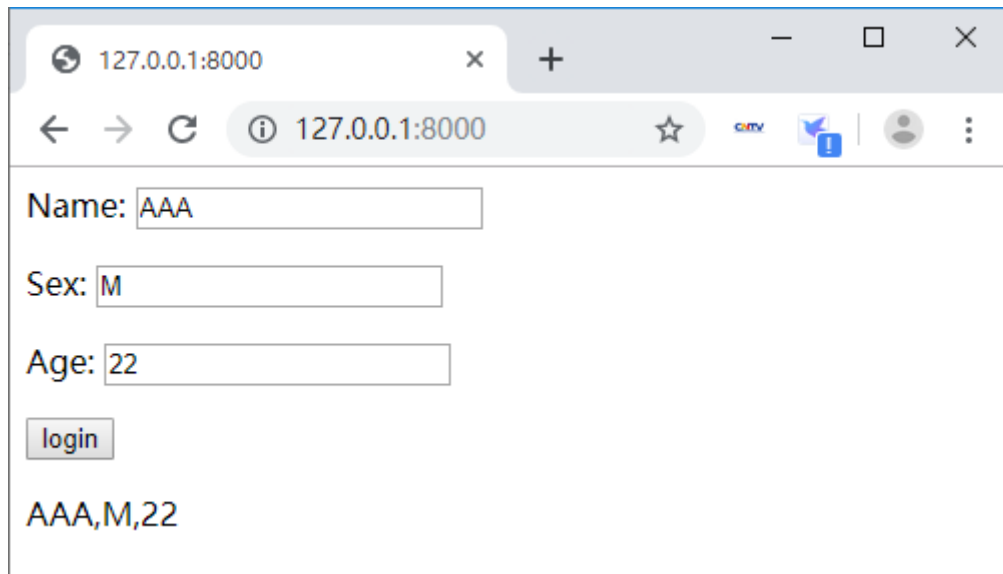
The screenshot shows a web browser window with the address bar displaying '127.0.0.1:8000'. The page contains a login form with the following elements:

- Name:** A text input field containing the value '2'.
- Sex:** A text input field containing the value 'ma'.
- Age:** A text input field containing the value '2'.
- login:** A button labeled 'login'.

Below the form, there are two sections of validation errors:

- Form-level errors:**
 - 性别M,F
 - 年龄必须是1-2位数值
- Field-level errors:**
 - sex
 - 性别M,F
 - age
 - 年龄必须是1-2位数值

(*) 我们使用 `form.is_valid()` 来检查是否验证通过，一般在使用 `request.POST` 的数据之前使用 `form.is_valid()` 先进行检验。



127.0.0.1:8000

Name:

Sex:

Age:

AAA,M,22

(*)

```
<html>
  <body>
    <form name="frm" action="/" method="post">
      <div>{{form.name}}</div>
      <div>{{form.sex}}</div>
      <div>{{form.age}}</div>
      <input type="submit" value="login">
    </form>
    <div>{{name}},{{sex}},{{age}}</div>
    <div>{{errors}}</div>
  </body>
</html>
```

A screenshot of a web browser window with the address bar showing '127.0.0.1:8000'. The browser has tabs, back, forward, and refresh buttons, along with a search bar and several extension icons. The main content area displays a login form with three input fields: the first contains 'AAA', the second contains 'c', and the third contains '2'. Below these fields is a 'login' button. Underneath the form, there is a double quote followed by a bulleted list of validation errors: 'sex' with a sub-item '性别M,F', and 'age' with a sub-item '年龄必须是1-2位数值'.

(***)

(*) views.py


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def show(request):
    if request.method=="POST":
        form=LoginForm(request.POST)
        if form.is_valid():
            name=request.POST.get("name")
            sex=request.POST.get("sex")
            age=request.POST.get("age")
        else:
            user=""
            age=""
            tel=""
        if "name" in form.errors:
            nameError=form.errors["name"][0]
        if "sex" in form.errors:
            sexError=form.errors["sex"][0]
        if "age" in form.errors:
            ageError=form.errors["age"][0]
```

```
else:
    form=LoginForm()
return render(request,"show.html",locals())
```

(*) show.html

```
html>
<body>
<form name="frm" action="/" method="post">
<div>{{form.name}}{{nameError}}</div>
<div>{{form.sex}}{{sexError}}</div>
<div>{{form.age}} {{ageError }}</div>
    <input type="submit" value="login">
</form>
<div>{{name}},{{sex}},{{age}}</div>
</body>
</html>
```



A screenshot of a web browser window displaying a login form. The browser's address bar shows the URL '127.0.0.1:8000'. The form contains three input fields: 'admin' for the username, 'v' for the password, and '2' for the age. To the right of the password field, there is a label '性别M,F'. To the right of the age field, there is a label '年龄必须是2位数值'. Below the input fields is a 'login' button. The browser window has a standard toolbar with back, forward, and refresh buttons, as well as a search bar and several extension icons.

注意：

form.errors 类型是一个<class 'django.forms.utils.ErrorDict'>对象, **form.errors["age"]**是一个<class 'django.forms.utils.ErrorList'>对象, 它是一个列表, **form.errors["age"][0]**是这个列表的第一个字符串, 这个字符串不包含...格式, 因此可以更好显示。