

Django

forms, model-forms



План

- формы и валидация
- сохранение данных
- model forms
- edit item
- add item
- Шаблоны: понятие контекста и контекст-процессор



Дока наше все!

[https://docs.djangoproject.com/
en/1.7/topics/forms/](https://docs.djangoproject.com/en/1.7/topics/forms/)



django.forms

```
from django import forms
```

```
class StudentForm(forms.Form):
```

```
    PACKAGE_CHOICES = (  
        ('standart', 'Standart'),  
        ('gold', 'Gold'),  
        ('vip', 'VIP'),  
    )
```

```
    student_name = forms.CharField(max_length=100)
```

```
    student_package = forms.ChoiceField(  
        choices=PACKAGE_CHOICES,  
        widget=forms.RadioSelect)
```

```
    student_note = forms.CharField(widget=forms.Textarea)
```



django form validation

```
def student_edit(request):  
    if request.method == 'post':  
        form = StudentForm(request.POST)  
        if form.is_valid():  
            #process data  
            print form.cleaned_data  
            return redirect('student_list')  
    else:  
        form = StudentForm()  
  
    return render(request, 'students/edit.html',  
                  {'form': form})
```



django form initial

```
def student_edit(request, student_id):  
    student = Student.objects.get(id=student_id)  
    if request.method == 'post':  
        form = StudentForm(request.POST)  
        if form.is_valid():  
            #process data  
            print form.cleaned_data  
            return redirect('student_list')  
    else:  
        form = StudentForm(initial={'student_name': student.name,  
                                    'student_package': student.package})  
  
    return render(request, 'students/edit.html',  
                  {'form': form})
```



django form save data

```
def student_edit(request, student_id):
    student = Student.objects.get(id=student_id)
    if request.method == 'post':
        form = StudentForm(request.POST)
        if form.is_valid():
            student.name = form.cleaned_data['student_name']
            student.package = form.cleaned_data['student_package']
            student.save()
            return redirect('student_list', student.id)
    else:
        form = StudentForm(initial={'student_name': student.name,
                                    'student_package': student.package})

    return render(request, 'students/edit.html',
                  {'form': form})
```



django form template

edit.html

```
<html>
```

```
<form method='post'>
```

```
{% csrf_token %}
```

```
{{ form }}
```

```
<input type='submit' />
```

```
</form>
```

```
</html>
```



django form template

```
<form method='post'>  
{% csrf_token %}
```

```
{% for field in form %}  
    {{ field }}  
{% endfor %}
```

```
<input type='submit' />
```

```
</form>
```



Дока наше все!

[https://docs.djangoproject.com/en/
1.7/topics/forms/modelforms/](https://docs.djangoproject.com/en/1.7/topics/forms/modelforms/)



djangoforms for model

```
from django import forms
```

```
class StudentForm(forms.ModelForm):
```

```
    class Meta:
```

```
        model = Student
```



django.forms for model

```
from django import forms
```

```
class StudentForm(forms.ModelForm):
```

```
    class Meta:
```

```
        model = Student
```

```
        fields = ['name', 'package']
```



django model form view

```
def student_edit(request, student_id):  
    student = Student.objects.get(id=student_id)  
    if request.method == 'post':  
        form = StudentForm(request.POST, instance=student)  
        if form.is_valid():  
            student = form.save()  
            return redirect('student_list', student.id)  
    else:  
        form = StudentForm(instance=student)  
  
    return render(request, 'students/edit.html',  
                  {'form': form})
```



django model form customisation

```
from django import forms
```

```
class StudentForm(forms.ModelForm):
```

```
    class Meta:
```

```
        model = Student
```

```
        # fields = ['name', 'package']
```

```
        exclude = ['note']
```

```
        widgets = {
```

```
            'package': forms.RadioSelect
```

```
        }
```



django model form customisation

```
from django import forms
```

```
class StudentForm(forms.ModelForm):
```

```
    class Meta:
```

```
        model = Student
```

```
        fields = ['name', 'package']
```

```
        labels = {
```

```
            'name': 'Student name'}
```

```
        help_texts = {
```

```
            'name': 'Enter first name' }
```



django model form view add item

```
def student_add(request):  
    title = "Student add item"  
    if request.method == 'POST':  
        form = StudentModelForm(request.POST)  
        if form.is_valid():  
            student = form.save()  
            return redirect('student-edit', student.id)  
    else:  
        form = StudentModelForm()  
    return render(request, 'students/edit.html',  
                  {'form': form, 'title': title})
```



Дока наше все!

[https://docs.djangoproject.com/
en/1.7/ref/settings/#template-
context-processors](https://docs.djangoproject.com/en/1.7/ref/settings/#template-context-processors)



context-processors

`django.core.context_processors.media`

```
def media(request):  
    return {'MEDIA_URL': settings.MEDIA_URL}
```



RequestContext

```
from django.http import HttpResponse  
from django.template import RequestContext,  
loader
```

```
def my_view(request):  
    t = loader.get_template('index.html')  
    c = RequestContext(request, {'foo': 'bar'})  
    return HttpResponse(t.render(c))
```



render_to_response

```
from django.template import RequestContext
from django.shortcuts import render_to_response
```

```
def my_view(request):
    return render_to_response('index.html',
                              {'foo': 'bar'},
                              context_instance=RequestContext(request))
```

```
def my_view(request):
    return render_to_response('index.html',
                              context_instance=RequestContext(request, {'foo': 'bar'}))
```



render

```
from django.shortcuts import render
```

```
def my_view(request):  
    return render(request, 'my_template.html',  
                  {'foo': 'bar'})
```

