Python

базовый тренинг

Рузин Алексей ruzin@me.com

Django - Views

```
    urls.py
    urlpatterns = [
    url(r'^view/$', views.view, name='view'),
    ]
```

views.py
 def view(request):
 return HttpResponse('html')

Django - Views

```
    urls.py
        urlpatterns = [
            url(r'^view/(?<param>.*)/$', views.view,
        name='view'),
        ]
```

views.py
 def view(request, param):
 return HttpResponse('html')

Django - Response

- def view(request, param):
 return ...
- HttpResponse('data', content_type=None, status=None, charset=None)
- HttpResponseNotFound() # ...BadRequest,
- HttpResponseRedirect(reverse('app:url_name', params))

Django - Templates

- <app>/templates/<app>/template_name.html
- from django.template import loader

```
template = loader.get_template('<app>/template_name.html')
...
return HttpResponse(template.render(context, request))
```

render(request, 'template.html', context)

Django - Templates

Django - Template tags

```
• {% load humanize %} 
{{ 45000|intcomma }}
```

```
    templatetags/custom_tags.py
from django import template
register = template.Library()
@register.filter(is_safe=True)
def do_something(value, param=' '):
    return ...
```

```
    {% load custom_tags %}
    ...
    {{ some_variable|do_something:«XYZ» }}
```

Django - Template blocks

templates/base.html
<html>
{% block my_name %}
... default html ...
{% endblock %}

```
templates/xyz.html
{% extends «base.html» %}
{% block my_name %}
... override default html ...
{% endblock %}
```

{% include "subtemplate.html" with param=value %}

Django - generic Views

```
    urls.py
    urlpatterns = [
        url(r'^item/(?<pk>.*)/$', views.ItemView.as_view(), name='item'),
        ]
        .
```

- views.py
 class ItemView(generic.DetailView):
 model = Item
 class ItemListView(generic.ListView):
 model = Item
 context_object_name = 'categories'
- templates/item_detail.html templates/item_list.html

Django - Class Views

```
    class ItemView(django.views.View):

     def get(self, request):
     def post(self, request):
     def head(self, request):
     def delete(self, request):
     def put(self, request):
```

Django - Forms

```
    from django.forms import ModelForm

  from shop.models import Item
  class ItemForm(ModelForm):
    class Meta:
       model = Item
       fields = ['title', 'price', 'category']
  class ItemFormView(View):
    template_name = 'shop/item_detail.html'
    def get(self, request, pk, *args, **kwargs):
       item = Item.objects.get(pk=pk)
       form = ItemForm(instance=item)
       return render(request, self.template_name, {'form': form, 'item': item})
    def post(self, request, pk, *args, **kwargs):
       item = Item.objects.get(pk=pk)
       form = ItemForm(request.POST)
       if form.is_valid():
         item.title = form.instance.title
         item.price = form.instance.price
         item.category = form.instance.category
         item.save()
       return render(request, self.template_name, {'form': form, 'item': item})
```