django

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AGENDA

1. Aplicações web com django
2. Arquitetura do projeto
3. Estrutura do projeto

UM FRAMEWORK PARA DESENVOLVIMENTO RÁPIDO.

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"...our lips are even more delicate than your eyelids!"

from Anne Marie Hawkins

15 comments   ⭐ 12

PORQUE DJANGO

1. Url
2. Views
3. Templates
4. Mapeamento de Objetos Relacionais (ORM)
5. Formulários
6. Admin

... e mais

PADRÃO MVC OU MVT

MODEL

VIEW

TEMPLATE

model.py

Representação da entidades do sistema e do banco de dados

```python
from django.db import models
from django.db.models import Q


class Disciplina(models.Model):
    nome = models.CharField(max_lenght=80, null=False, blank=False)
    semestre = models.IntegerField(null=False, blank=False)
    professor = models.ForeignKey(Professor, on_delete=models.SET_NULL, null=True, blank=False)
    alunos = models.ManyToManyField(Aluno, null=True, blank=True)
```

```python
from django.db import models
from django.db.models import Q

class Disciplina(models.Model):
    nome = models.CharField(max_lenght=80, null=False, blank=False)
    semestre = models.IntegerField(null=False, blank=False)
    professor = models.ForeignKey(Professor, on_delete=models.SET_NULL, null=True, blank=False)
    alunos = models.ManyToManyField(Aluno, null=True, blank=True)
```

views.py

"A view é exigida, de forma que recebe um request e retorna um response"

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

def ver_professores(request):
    context = RequestContext(request)
    contexto[ 'professor' ] = "Nome do seu professor"

    if request.method == 'POST':
        #Faz algo se for um POST

        return HttpResponse(reverse('home'))
    else:
        #Faz outro algo se for um GET

        return render_to_response('lista_professores.html', context)
```

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

def ver_professores(request):
    context = RequestContext(request)

    if request.method == 'POST':
        #Faz algo se for um POST

        return HttpResponse(reverse('home'))
    else:
        #Faz outro algo se for um GET

        return render_to_response('lista_professores.html', context)
```
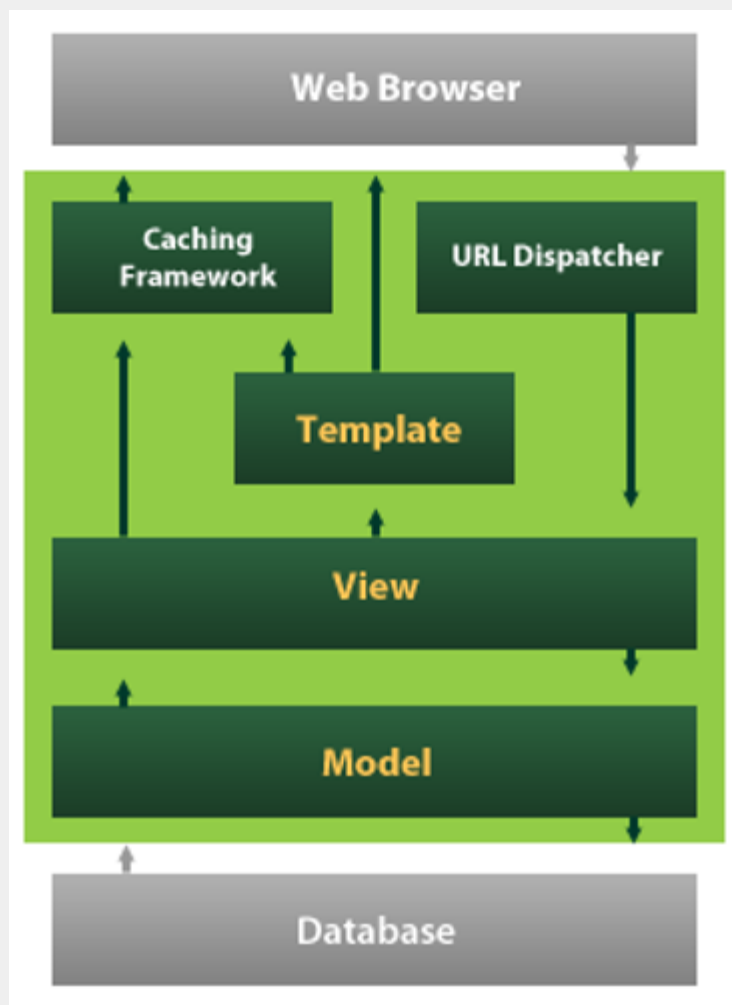
template.??

varios.html

```
{% extends "base.html" %}
{% block content %}
<ul>
{% for professor in professores %}
        {% if professor.idade >= 30 %}
                    <li>Professor possui {{professor.idade}} anos</li>
        {% else %}
                    <li>Professor novato</li>
        {% endif %}
{% enfor %}
</ul>
{% endblock %}
```

ESTRUTURA REAL DA APLICAÇÃO
criando o projeto....

```
python django-admin startproject projeto
```

```
manage.py
        projeto/
        __init__.py
        settings.py
        urls.py
        wsgi.py
```

urls.py – Configuráveis utilizando expressão regular.

Padrão URL: **url(r'^$', 'views.home', name='home'),**

- **r'^$'** – expressão regular de configuração da url

- **views.home** – View responsável por tratar o endereço

- **name='home'** – apelido carinhoso para url

settings.py – Configurações gerais do projeto

- Apps
- DataBase
- Caminho estáticos
- Valores constantes

criando o meu app....

```
python manage.py startapp meu-app
```

```
minicurso
manage.py
meu_app/
    __init__.py
    admin.py
    models.py
    views.py
projeto/
```

TUDO MUITO BONITO
mas como eu junto tudo isso....

urls.py

```python
from django.conf.urls import patterns, include, url
from django.contrib import admin

urlpatterns = patterns('',
    url(r'^$', 'apps.primeiro_app.views.home', name='home'),
)
```

urls.py

TemplateDoesNotExist at /

template.html

Request Method:	GET
Request URL:	http://localhost:8000/
Django Version:	1.7.5
Exception Type:	TemplateDoesNotExist
Exception Value:	template.html
Exception Location:	C:\Users\Douglas Cerqueira\Minicurso\minicurso\lib\site-packages\django\template\loader.py in find_template, line 136
Python Executable:	C:\Users\Douglas Cerqueira\Minicurso\minicurso\Scripts\python.exe
Python Version:	2.7.8
Python Path:	['C:\\Users\\Douglas Cerqueira\\Minicurso\\minicurso\\minicurso',
	'C:\\Windows\\SYSTEM32\\python27.zip',
	'C:\\Users\\Douglas Cerqueira\\Minicurso\\minicurso\\DLLs',
	'C:\\Users\\Douglas Cerqueira\\Minicurso\\minicurso\\lib',
	'C:\\Users\\Douglas Cerqueira\\Minicurso\\minicurso\\lib\\plat-win',
	'C:\\Users\\Douglas Cerqueira\\Minicurso\\minicurso\\lib\\lib-tk',
	'C:\\Users\\Douglas Cerqueira\\Minicurso\\minicurso\\Scripts',
	'C:\\Python27\\Lib',
	'C:\\Python27\\DLLs',
	'C:\\Python27\\Lib\\lib-tk',
	'C:\\Users\\Douglas Cerqueira\\Minicurso\\minicurso',
	'C:\\Users\\Douglas Cerqueira\\Minicurso\\minicurso\\lib\\site-packages']
Server time:	Sun, 15 Mar 2015 11:20:57 -0300

Template-loader postmortem

Django tried loading these templates, in this order:
- Using loader django.template.loaders.filesystem.Loader:
- Using loader django.template.loaders.app_directories.Loader:
  - C:\Users\Douglas Cerqueira\Minicurso\minicurso\lib\site-packages\django\contrib\admin\templates\template.html (File does not exist)
  - C:\Users\Douglas Cerqueira\Minicurso\minicurso\lib\site-packages\django\contrib\auth\templates\template.html (File does not exist)

Traceback Switch to copy-and-paste view

C:\Users\Douglas Cerqueira\Minicurso\minicurso\lib\site-packages\django\core\handlers\base.py in get_response

```
111.                        response = wrapped_callback(request, *callback_args, **callback_kwargs)          ...
```

template.html

```
<h1> Hello World </h1>
{% if professor %}
{{professor.nome}}
{% else %}
<h3>Sem professor</h3>
{%endif%}
```

template.html

ViewDoesNotExist at /

Could not import apps.primeiro_app.views.home. View does not exist in module apps.primeiro_app.views.

Request Method:	GET
Request URL:	http://localhost:8000/
Django Version:	1.7.5
Exception Type:	ViewDoesNotExist
Exception Value:	Could not import apps.primeiro_app.views.home. View does not exist in module apps.primeiro_app.views.
Exception Location:	C:\Users\Douglas Cerqueira\Minicurso\minicurso\lib\site-packages\django\core\urlresolvers.py in get_callable, line 118
Python Executable:	C:\Users\Douglas Cerqueira\Minicurso\minicurso\Scripts\python.exe
Python Version:	2.7.8
Python Path:	['C:\\Users\\Douglas Cerqueira\\Minicurso\\minicurso\\minicurso',
	'C:\\Windows\\SYSTEM32\\python27.zip',
	'C:\\Users\\Douglas Cerqueira\\Minicurso\\minicurso\\DLLs',
	'C:\\Users\\Douglas Cerqueira\\Minicurso\\minicurso\\lib',
	'C:\\Users\\Douglas Cerqueira\\Minicurso\\minicurso\\lib\\plat-win',
	'C:\\Users\\Douglas Cerqueira\\Minicurso\\minicurso\\lib\\lib-tk',
	'C:\\Users\\Douglas Cerqueira\\Minicurso\\minicurso\\Scripts',
	'C:\\Python27\\Lib',
	'C:\\Python27\\DLLs',
	'C:\\Python27\\Lib\\lib-tk',
	'C:\\Users\\Douglas Cerqueira\\Minicurso\\minicurso',
	'C:\\Users\\Douglas Cerqueira\\Minicurso\\minicurso\\lib\\site-packages']
Server time:	Sun, 15 Mar 2015 11:45:46 -0300

view.py

```python
from django.shortcuts import render_to_response

from django.template.context import import RequestContext


def home(request):

        context = RequestContext(request)

        return render_to_response("template.html", context)
```

template.html

Hello World

Sem professor

template.html

<h1> Hello World </h1>

{% if professor %}

{{ professor.nome }}

{% else %}

<h3>Sem professor</h3>

{%endif%}

models.py

```python
from django.db import models

class Professor(models.Model):
    nome = models.CharField(max_length=80, null=False, blank=True)
    idade = models.IntegerField(null=False, blank=False)
```

registrando o models.py no admin.py

from django.contrib import admin
from models import Professor

admin.site.register(Professor)

alterando a view.py

```python
from django.shortcuts import render_to_response

from django.template.context import RequestContext

from models import Professor


def home(request):

        context = RequestContext(request)

        contexto['professor'] = Professor.objects.get(id=1)

        return render_to_response("template.html", context)
```

Hello World

Douglas

É ISSO AÍ ;)