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Факультет «Информатика и системы управления» Кафедра «Системы обработки информации и управления»



Лабораторные работы по курсу:

«Разработка Интернет Приложений»

ЛР6. Шаблонизация

Исполнитель:

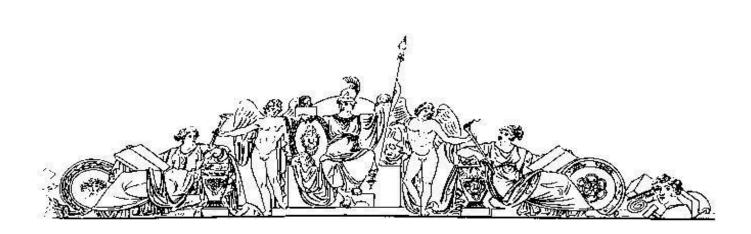
Студент группы РТ5-51

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Задание и порядок выполнения

В этой ЛР необходимо создать Django-проект, показать пользователю статичную страницу, познакомиться с конструкциями шаблонизаторов: переменные, теги, наследование шаблонов.

- Создать проект
- Реализовать view, в которых генерируются html-страницы
- В шаблонах должны быть использованы рассмотренные конструкции: переменные, вложенные значения, циклы, условия
- Все шаблоны должны расширять базовый шаблон
- Для элементов списка использовать тег include
- По нажатии на элемент списка должна открываться страница информации об элементе
- Для верстки необходимо использовать Bootstrap

Исходный код:

settings.py:

```
import os
# Build paths inside the project like this: os.path.join(BASE DIR, ...)
BASE DIR = os.path.dirname(os.path.dirname(os.path.abspath( file )))
# Quick-start development settings - unsuitable for production
# See https://docs.djangoproject.com/en/1.11/howto/deployment/checklist/
# SECURITY WARNING: keep the secret key used in production secret!
SECRET KEY = \frac{\hbar 2(i) \times \%m^m 1 w cap@yfd+711@c*q%ci116s2\$76m= bu(&76z'}{\hbar 2}
# SECURITY WARNING: don't run with debug turned on in production!
DEBUG = True
ALLOWED HOSTS = []
# Application definition
INSTALLED APPS = [
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
    'myapp.apps.MyappConfig',
]
MIDDLEWARE = [
    'django.middleware.security.SecurityMiddleware',
    'django.contrib.sessions.middleware.SessionMiddleware',
    'django.middleware.common.CommonMiddleware',
    'django.middleware.csrf.CsrfViewMiddleware',
    'django.contrib.auth.middleware.AuthenticationMiddleware',
    'django.contrib.messages.middleware.MessageMiddleware',
    'django.middleware.clickjacking.XFrameOptionsMiddleware',
```

```
1
ROOT URLCONF = 'untitled3.urls'
TEMPLATES = [
    {
        'BACKEND': 'django.template.backends.django.DjangoTemplates',
        'DIRS': [os.path.join(BASE DIR, 'templates')]
        'APP DIRS': True,
        'OPTIONS': {
            'context_processors': [
                'django.template.context_processors.debug',
                'django.template.context_processors.request',
                'django.contrib.auth.context_processors.auth',
                'django.contrib.messages.context processors.messages',
            ],
        },
    },
1
WSGI APPLICATION = 'untitled3.wsgi.application'
# Database
# https://docs.djangoproject.com/en/1.11/ref/settings/#databases
DATABASES = {
    'default': |
        'ENGINE': 'django.db.backends.sqlite3',
        'NAME': os.path.join(BASE DIR, 'db.sqlite3'),
    }
}
# Password validation
# https://docs.djangoproject.com/en/1.11/ref/settings/#auth-password-
validators
AUTH PASSWORD VALIDATORS = [
        'NAME':
'django.contrib.auth.password validation.UserAttributeSimilarityValidator',
    },
    {
        'NAME':
'django.contrib.auth.password validation.MinimumLengthValidator',
    },
    {
        'NAME':
'django.contrib.auth.password validation.CommonPasswordValidator',
    },
    {
        'NAME':
'django.contrib.auth.password validation.NumericPasswordValidator',
1
# Internationalization
# https://docs.djangoproject.com/en/1.11/topics/i18n/
LANGUAGE CODE = 'en-us'
```

```
TIME ZONE = 'UTC'
USE I18N = True
USE L10N = True
USE TZ = True
# Static files (CSS, JavaScript, Images)
# https://docs.djangoproject.com/en/1.11/howto/static-files/
STATIC URL = '/static/'
                                    urls.py
from django.conf.urls import url, include
from django.contrib import admin
from myapp.views import *
urlpatterns = [
    url(r'^admin/', admin.site.urls),
    url(r'^main/', show_main, name="main_url"),
    url(r'^info/', show_info, name="info_url"),
    url(r'^goods/$', goods view, name="goods url"),
    url(r'^goods/([\d+]{1,4})), good view1, name="good numb url"),
    url(r'^goods/([\d+]{1,4})/characteristic', good_char,
name="good char url"),
   url(r'^contacts/$', OrderView.as view(), name="contacts url")
                                   views.py
from django.shortcuts import render
from django.views.generic import View
from django.http import HttpResponse
# Create your views here.
def show base(request):
    title = 'Site'
   head text = 'Hello'
    return render(request, "base.html", locals())
def show_main(request):
    title = 'Site'
    head text = 'Main'
   main text = "This is main prog"
    return render(request, "main.html", locals())
def show info(request):
    title = 'SiteInfo'
    head text = 'This is information'
```

```
main text = "Look! This is information"
    return render(request, "info.html", locals())
def goods view(request):
    good_id = ""
    goods list = "Goods list"
    data = {'goodlist': []}
    for i in range (1, 10):
        data['goodlist'].append(
                'id': i,
                'title': '{0}{1}'.format('Good ', i),
                'description': 'Very useful description N:{}'.format(i),
                'text': 'Very useful text №{}'.format(i),
                'date': '29.12.2017'
            }
    return render(request, "goods.html", locals())
def good view(request):
    good id = "Good site"
    # good id = good id1
    return render(request, "goods.html", locals())
def good view1(request, id):
    good id = id
    # good id = good id1
    return render(request, "goods.html", locals())
def good char(request, id):
    good id = id
    \# good\ id\ =\ good\_id1
    q = request.GET["id"]
    return render(request, "goods.html", locals())
class OrderView(View):
    def get(self, request):
        q = self.kwargs.get("id")
        # q = request.GET.get("id")
        return render(request, 'order.html', locals())
                                   main.css
@import url('https://fonts.googleapis.com/css?family=Lato|Raleway');
@import "bootstrap.css";
body {
    background-color: #f2f2f2;
    font-family: "Lato", serif;
    font-weight: 300;
    font-size: 16px;
    color: #555;
    -webkit-font-smoothing: antialiased;
```

```
-webkit-overflow-scrolling: touch;
    margin-top: 70px;
}
h1, h2, h3, h4, h5, h6{
    font-family: "Raleway", serif;
    font-weight: 300;
    color: #2cff9d;
}
p{
    line-height: 28px;
    margin-bottom: 25px;
}
.centered{
    text-align: center;
    color: #f85c37;
a:hover, a:focus{
    color: #7b7b7b;
    text-decoration: none;
}
hr{
    display: block;
    height: 1px;
    border: 0;
    border-top:1px solid #ccc;
    margin:1em 0;
    padding: 0;
.navbar{
    font-weight: 800;
    font-size: 14px;
    padding-top: 15px;
    padding-bottom: 15px;
.navbar-inverse{
    background: #2d0051;
    border-color: #6affe1;
    border-bottom-style: ridge;
.navbar-inverse .navbar.nav > .active > a{
    background-color: #ff7878;
.navbar-inverse .navbar-brand{
    color: #999;
    font-weight: bolder;
    font-size: 22px;
    letter-spacing: 1px;
{% load static %}
#headerwrap{
```

```
background: url(office.jpg) no-repeat center top;
margin-top: -10px;
margin-bottom: 20px;
text-align: center;
backface-visibility: hidden;
background-position: center center;
min-height: 500px;
width: 100%;
background-size: 100%;
-webkit-background-size: cover;
-moz-background-size: cover;
```

base.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    {% load static %}
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>{{ title }}</title>
  <link rel="stylesheet" href={% static 'Bootstrap/css/bootstrap.min.css' %}>
  <link rel="stylesheet" href={% static 'Bootstrap/css/font-</pre>
awesome.min.css'%}>
  <link rel="stylesheet" href={% static 'Bootstrap/css/main.css'%}>
</head>
<body>
  <div class="navbar navbar-inverse navbar-fixed-top">
    <div class="container">
      <div class="navbar-header">
        <button type="button" class="navbar-toggle" data-toggle="collapse"</pre>
data-target=".navbar-collapse">
          <span class="icon-bar"></span>
          <span class="icon-bar"></span>
          <span class="icon-bar"></span>
        </button>
        <a class="navbar-brand" href="#"><i class="fa fa-ellipsis-h"></i>{{
head text } } </a>
      </div>
      <div class="navbar-collapse collapse">
        {% block head_buttons %}{% endblock %}
        </div>
    </div>
  </div>
src="https://ajax.googleapis.com/ajax/libs/jquery/3.1.0/jquery.min.js"></scri</pre>
pt>
<script src={% static "Bootstrap/js/bootstrap.min.js" %}></script>
<div id = "headerwrap">
  <div class="container">
      <div class="row centered">
            <div class="col-lg-10 col-lg-offset-1">
                {% block body1 %}{% endblock %}
            </div>
      </div>
    </div>
```

```
</div>
</body>
</html>
                             goods.html
{% extends 'base.html' %}
{% block head buttons %}
     <a href={% url 'main url' %}>Домой</a>
     <a href={% url "info url" %}>NH$\phi$0</a>
     <a href={% url "goods url"%}>ToBapb
     <a href={% url "contacts_url" %}>Kohtaktы</a>
     <a href={% url "good numb url" 1%}><i class="fa fa-envelope-o"</pre>
aria-hidden="true"></i></a>
{% endblock %}
{% block body1 %}
   <h2>{{ goods_list }}</h2>
   {% if good id != "" %}
       <h2>Good id is {{ good_id }}</h2>
       <a href={% url "good_char_url" good_id %}>Characteristic</a>
   {% else %}
              <a class="hh" href={% url "good numb url"</li>
1%}>Good1</a>
              <a href={% url "good numb url" 2%}>Good2</a>
              <a href={% url "good numb url" 3%}>Good3</a>
              <a href={% url "good numb url" 4%}>Good4</a>
              <a href={% url "good numb url" 5%}>Good5</a>
              <a href={% url "good numb url" 6%}>Good6</a>
              <a href={% url "good numb url" 7%}>Good7</a>
   {% endif %}
{% endblock %}
                              info.html
{% extends 'base.html' %}
{% block head buttons %}
     <a href={% url 'main_url' %}>Домой</a>
     class="active"><a href="#">Инфо</a>
     <a href={% url "goods url" %}>Товары</a>
     <a href={% url "contacts url" %}>Контакты</a>
```

<i class="fa fa-envelope-o" aria-

hidden="true"></i>

main.html

order.html