Московский государственный технический университет им. Н.Э.Баумана

Отчет по лабораторной работе №5 по курсу
Разработка интернет приложений

ИСПОЛНИТЕЛЬ:

студент группы ИУ5-52   _____
                                           (подпись)
Матвеева П.Р.
                                "__"_____2016 г.

Москва, МГТУ - 2016
_____

Оглавление

1. Описание задания лабораторной работы.

В этой ЛР вы создадите Django-проект, покажете пользователю статичную страницу, познакомитесь 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

2. Модули.

shop/views.py

```python
from django.shortcuts import render


def index(request):
    return render(request, 'index.html', {'var_name': "Полина"})


def shopping(request):
    data = [
        {
            'name': 'New collection',
            'description': 'Check our new models!'

        },
        {
            'name': "Basics",
            'description': 'Models that are always relevant.'
        },
        {
            'name': 'Sales',
            'description': "The best promotions and the biggest discounts.",
        }
    ]
    return render(request, 'product.html', context={'menu':data} )


def search_new(request):
    data_search_n = [
        {
            'name': 'Product 1',
            'id': '123321',
            'description': 'text about 1',
            'image':'https://img.corsocomo.com/image/cache/data/w/19-422-1602-12/19-
422-1602-12-630x630.jpg'
        },
        {
            'name': 'Product 2',
            'id': '122321',
            'description': 'text about product 2',
            'image': 'https://img.corsocomo.com/image/cache/data/w/05-0002-16/05-0002-
16-1000x1000.jpg'
        },
        {
            'name': 'Product 3',
            'id': '123521',
```

```python
                'description': 'text about product 3',
                'image': 'https://img.corsocomo.com/image/cache/data/w/17-669-02-57-35/17-
669-02-57-35-630x630.jpg'
            }
        ]
    if len(data_search_n)==0:
        return render(request, 'search-empty.html')
    else:
        return render(request, 'search.html', context={'search':data_search_n})


def search_basic(request):
    data_search_b = [
        {
            'name': 'Product 1',
            'id': '127621',
            'description': 'text about 1',
            'image':'http://vsezapolceny.ru/sites/default/files/zhenskaya-domashnyaya-
obuv/funny-mens-plush-slippers-2015-indoor-shoes-house-cute-women-slippers-emoji-shoes-
warm-house-slipper.jpg'
        }
    ]
    if len(data_search_b) == 0:
        return render(request, 'search-empty.html')
    else:
        return render(request, 'search.html', context={'search':data_search_b})

def search_sale(request):
    data_s=[]
    if len(data_s) == 0:
        return render(request, 'search-empty.html')
    else:
        return render(request, 'search.html', context={'search':data_s})
```

shop/urls.py

```python
from django.conf.urls import url

from . import views

urlpatterns = [
    url(r'^$', views.index, name='index'),
    url(r'^shop/', views.shopping, name='shopping'),
    url(r'^search-new/', views.search_new, name='search_new'),
    url(r'^search-basic/', views.search_basic, name='search_basic'),
    url(r'^search-sale/', views.search_sale, name='search_sale')
]
```

urls.py

```python
"""mysite URL Configuration

The `urlpatterns` list routes URLs to views. For more information please see:
    https://docs.djangoproject.com/en/1.10/topics/http/urls/
Examples:
Function views
    1. Add an import:  from my_app import views
    2. Add a URL to urlpatterns:  url(r'^$', views.home, name='home')
Class-based views
    1. Add an import:  from other_app.views import Home
    2. Add a URL to urlpatterns:  url(r'^$', Home.as_view(), name='home')
Including another URLconf
    1. Import the include() function: from django.conf.urls import url, include
    2. Add a URL to urlpatterns:  url(r'^blog/', include('blog.urls'))
"""
```

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

urlpatterns = [
    url(r'^admin/', admin.site.urls),
    url(r'', include('shop.urls')),
    url(r'^shop/', include('shop.urls')),
    url(r'^search-new/', include('shop.urls')),
    url(r'^search-basic/', include('shop.urls')),
    url(r'^search-sale/', include('shop.urls')),
] + static(settings.STATIC_URL, document_root=settings.STATIC_ROOT)
```

Шаблоны
base.html

```html
{% load staticfiles %}

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>{% block title %}{% endblock %}</title>
    <link rel="stylesheet" type="text/css" href="/static/css/bootstrap.css">
    <link href="/static/css/jumbotron-narrow.css" rel="stylesheet">
    <link href="https://fonts.googleapis.com/css?family=Lobster" rel="stylesheet">
    <style>
    body {
        background: url(/static/3.jpg)  no-repeat center center fixed;
        -webkit-background-size: cover;
        -moz-background-size: cover;
        -o-background-size: cover;
        background-size: cover;
    }
        h3 {
            font-family: 'Lobster';
            font-size: xx-large;
        }
  </style>
</head>
<body>
    <div class="container-fluid">
        <style>
            .link1 {
                font-size: 40px;
                color: black;
            }
        </style>
        <div class="text-center">
            <h3><a href="/" class="link1"> Fashion is our profession </a></h3>
        </div>
    </div>
{% block content %}{% endblock %}

</body>
</html>
```

index.html

```html
{% extends 'base.html' %}

{% block title %}Welcome to our shop!{% endblock %}
{% block content %}
    <div class="jumbotron">
```

```html
        <p class="lead">Dear {{ var_name }}! We are glad to see you in our store. Have
a good shopping! Click on the link below to begin. </p>
        <a href="/shop" class="btn btn-primary" role="button" >Go shopping</a>

    </div>
{% endblock %}
```

product.html

```html
{% extends 'base.html' %}

{% block title %}Our products{% endblock %}
{% block content %}
    <div class="row marketing">
        {% for category in menu %}
            <div class="col-lg-4"  >
                <div class="panel panel-default">
                    <div class="panel-body bg-info">
                {% if category.name == 'Sales' %}
                    <style>
                        .s1 {
                            color: #c12e2a;
                            text-align: center;
                            font-weight: 700;
                        }
                    </style>
                    <h4><p class="s1">{{ category.name }}</p></h4>
                        <div class="caption">
                            <p>{{ category.description }}</p>
                            <div class="s2">
                            <a href="/search-sale" class="btn btn-primary"
role="button">{% include 'search_f.html' with field=category.name %}</a>
                            </div>
                        </div>
                {% elif category.name != 'Sales' %}
                    <style>
                        .s2 {
                            text-align: center;
                            font-weight: 700;
                        }
                    </style>
                    <h4> <p class="s2">{{ category.name }}</p></h4>
                        <div class="caption">
                            <p>{{ category.description }}</p>
                            <div class="s2">
                                {% if category.name == 'New collection' %}
                                  <a href="/search-new" class="btn btn-primary"
role="button">{% include 'search_f.html' with field=category.name %}</a>
                                {% elif category.name != 'New Collection' %}
                                  <a href="/search-basic" class="btn btn-primary"
role="button">{% include 'search_f.html' with field=category.name %}</a>
                                {% endif %}

                            </div>
                        </div>
                {% endif %}
                </div>
                </div>
            </div>
        {% endfor %}
    </div>
{% endblock %}
```

search.html

```
{% extends 'base.html' %}
{% block title %}Search{% endblock %}
{% block content %}
    <div class="container-fluid">
        <div class="blog-header">
            <h1 class="blog-title col-lg-offset-3"><b>Search results</b></h1>
        </div>
        <div class="row">
            <div class="col-lg-8 blog-main">
                {% for item in search %}
                    <section class="panel panel-search">
                    <div class="panel-heading bg-info">
                        <div class="panel-title">
                            <h4> {{  item.name}}<small> item no:{{ item.id}}</small>
</h4>
                        </div>
                    </div>
                    <div class="panel-body ">
                        <div class="row">
                            <div class="col-lg-4">
                                <img src="{{ item.image }}" width="100%"/>
                            </div>
                            <div class="col-lg-4">
                                {{ item.description }}
                            </div>
                        </div>
                    </div>
                </section>
                {% endfor %}
            </div>
            <div class="col-lg-3 blog-sidebar">
                <section class="panel panel-search">
                    <div class="panel-heading bg-info">
                        <div class="panel-title">
                            <h3>Search</h3>
                        </div>
                    </div>
                    <h4><div class="col-lg-offset-1">Filters</div></h4>
                    <ol class="list-unstyled text-center">
                        <li><a href="#">Price low to high</a></li>
                        <li><a href="#">Price high to low</a></li>
                        <li><a href="#">Popularity</a></li>
                    </ol>
                    <div class="panel-body bg-info">
                        <div class="input-group">
                            <form data-key="2af70d95e12e1e4e9344fa7468f8213d00434d93"
action="search" method="get" style="margin-bottom:10px;">
                            <span class="input-group-btn">
                                    <input type="text" class="form-control"
name="query" placeholder="Enter here" value="" />
                                    <button type="submit" class="btn btn-
default">Find</button>
                            </span>
                            </form>
                        </div>
                    </div>
                </section>
            </div>
        </div>
    </div>

{% endblock %}
```

search-empty.html

```
{% extends 'base.html' %}
{% block title %}Search{% endblock %}
{% block content %}
    <div class="container-fluid">
        <div class="blog-header">
            <h1 class="blog-title col-lg-offset-3"><b>Search results</b></h1>
        </div>
        <div class="row">
            <div class="col-lg-8 blog-main">
                <h1 class="blog-title col-lg-offset-4">There are no items:(</h1>
            </div>
            <div class="col-lg-3 blog-sidebar">
                <section class="panel panel-search">
                    <div class="panel-heading bg-info">
                        <div class="panel-title">
                            <h3>Search</h3>
                        </div>
                    </div>
                    <h4><div class="col-lg-offset-1">Filters</div></h4>
                    <ol class="list-unstyled text-center">
                        <li><a href="#">Price low to high</a></li>
                        <li><a href="#">Price high to low</a></li>
                        <li><a href="#">Popularity</a></li>
                    </ol>
                    <div class="panel-body bg-info">
                        <div class="input-group">
                            <form data-key="2af70d95e12e1e4e9344fa7468f8213d00434d93"
action="search" method="get" style="margin-bottom:10px;">
                            <span class="input-group-btn">
                                <input type="text" class="form-control"
name="query" placeholder="Enter here" value="" />
                                <button type="submit" class="btn btn-
default">Find</button>
                            </span>
                            </form>
                        </div>
                    </div>
                </section>
            </div>
        </div>
    </div>

{% endblock %}
```
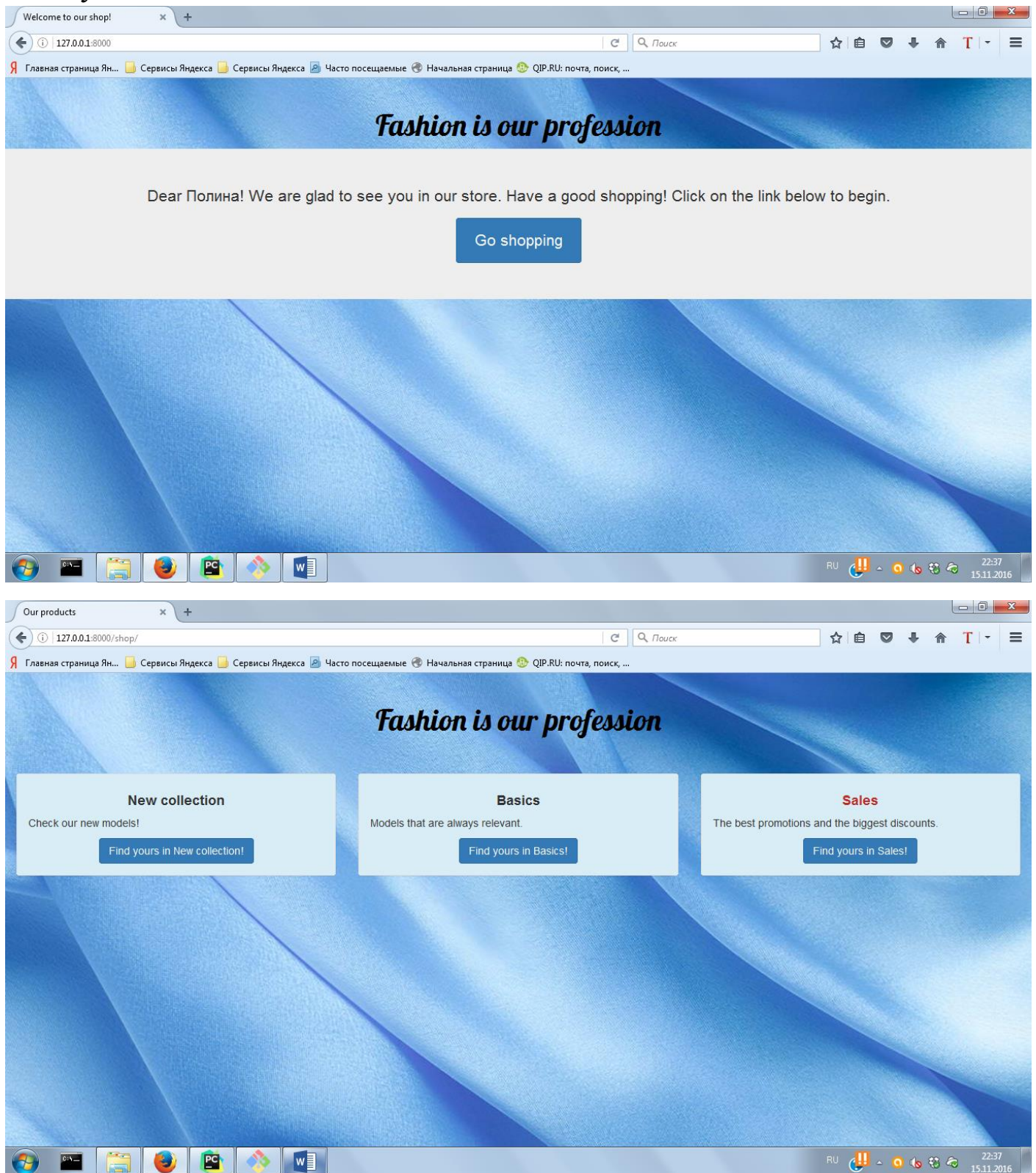
search-f.html

```
Find yours in {{ field }}!
```

3. Результаты.

Fashion is our profession

Search results

Product 1 item no:123321

text about 1

Search

Filters

Price low to high
Price high to low
Popularity

Enter here   Find

Product 2 item no:122321

text about product 2

Fashion is our profession

Search results

Product 1 item no:127621

text about 1

Search

Filters

Price low to high
Price high to low
Popularity

Enter here   Find

Fashion is our profession

Search results

There are no items:(

Search

Filters

Price low to high
Price high to low
Popularity

Enter here   Find