

**Московский государственный технический
университет им. Н.Э. Баумана.**

Факультет «Информатика и системы управления»

Кафедра ИУ5. Курс «Разработка интернет приложений»

Отчет по лабораторной работе №4
«Шаблонизация»

Выполнил:

студент группы ИУ5-52

Дудырев Е. О.

Подпись и дата:

Проверил:

доцент каф. ИУ5

Гапанюк Ю. Е.

Подпись и дата:

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Задание

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 нажатию на элемент списка должна открываться страница информации об элементе
- Для верстки необходимо использовать Bootstrap

Исходный код

Views.py

```
from django.shortcuts import render
from django.http import HttpResponse
```

```
# Create your views here.
```

```
def index(request):
```

```
    lorem = "Lorem ipsum dolor sit amet, consectetur adipiscing elit. Mauris venenatis sem eu neque elementum
    semper. Aenean a quam enim. Praesent dictum, magna non tincidunt luctus, tortor tellus lobortis lorem, eu
    sodales felis libero sit amet nulla. Nam rhoncus faucibus fermentum. Sed nec est tellus. Vestibulum vitae
    volutpat sem, et ullamcorper tortor. Donec venenatis libero vel metus luctus eleifend. Praesent eleifend metus
    tincidunt, tempus leo a, volutpat dui." \
```

```
    "Integer mattis cursus ante, non maximus ligula pellentesque eu. Phasellus semper libero ac tortor auctor
    placerat. Quisque quam ipsum, gravida vitae risus at, fringilla vestibulum nibh. Donec fermentum accumsan
    velit vel rutrum. In imperdiet, leo nec finibus vehicula, tellus massa vehicula arcu, non feugiat leo ex ac dolor. In
    sagittis augue quis metus suscipit dapibus. Curabitur ultrices erat malesuada, viverra arcu ornare, accumsan est."
    \
```

```
    "Suspendisse dignissim odio at nibh malesuada, sit amet volutpat ante pellentesque. Ut id lorem
    commodo, mollis sapien sit amet, vestibulum magna. Curabitur a convallis augue, eu hendrerit ipsum. Cras
    semper dolor id mauris porttitor, a sagittis felis mattis. In hac habitasse platea dictumst. Curabitur eu ex vel orci
    ultrices commodo. Integer ac ligula massa."
```

```
    news = [{'id':i} for i in range(10)]
```

```
    for n in news:
```

```
        id = n['id']
```

```
        n['title'] = "Title #" + str(id + 1)
```

```
        n['content'] = lorem[:150] + '...'
```

```
    context = {'news_list': news[:5]}
```

```
    return render(request, 'index.html', context)
```

```
def single_news(request, id):
```

```
    lorem = "Lorem ipsum dolor sit amet, consectetur adipiscing elit. Mauris venenatis sem eu neque elementum
    semper. Aenean a quam enim. Praesent dictum, magna non tincidunt luctus, tortor tellus lobortis lorem, eu
    sodales felis libero sit amet nulla. Nam rhoncus faucibus fermentum. Sed nec est tellus. Vestibulum vitae
    volutpat sem, et ullamcorper tortor. Donec venenatis libero vel metus luctus eleifend. Praesent eleifend metus
    tincidunt, tempus leo a, volutpat dui." \
```

```
    "Integer mattis cursus ante, non maximus ligula pellentesque eu. Phasellus semper libero ac tortor auctor
    placerat. Quisque quam ipsum, gravida vitae risus at, fringilla vestibulum nibh. Donec fermentum accumsan
    velit vel rutrum. In imperdiet, leo nec finibus vehicula, tellus massa vehicula arcu, non feugiat leo ex ac dolor. In
```

sagittis augue quis metus suscipit dapibus. Curabitur ultrices erat malesuada, viverra arcu ornare, accumsan est."

"Suspendisse dignissim odio at nibh malesuada, sit amet volutpat ante pellentesque. Ut id lorem commodo, mollis sapien sit amet, vestibulum magna. Curabitur a convallis augue, eu hendrerit ipsum. Cras semper dolor id mauris porttitor, a sagittis felis mattis. In hac habitasse platea dictumst. Curabitur eu ex vel orci ultrices commodo. Integer ac ligula massa."

```
news = [{ 'id':i } for i in range(10)]
for n in news:
    idx = n['id']
    n['title'] = "Title #'+str(idx+1)
    n['content'] = lorem
context = { 'news': news[int(id)] }
return render(request, 'single_news.html', context)
```

base.html

```
<!DOCTYPE html>
<html lang="ru">
<head>
  <meta charset="utf-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <!-- The above 3 meta tags *must* come first in the head; any other head content must come *after* these
tags -->
  <meta name="description" content="ЛП4 no Python">
  <meta name="author" content="Дудырев Егор">
  {% load static %}
  <link rel="icon" href="{% static 'img/favicon.ico' %}">

  <title>{% block title %}Starter Template RIPs lab4{% endblock %}</title>

  <!-- Bootstrap core CSS -->

  <link href="{% static 'css/bootstrap.min.css' %}" rel="stylesheet">
  <!--<link href="css/bootstrap.min.css" rel="stylesheet">-->

  <!-- IE10 viewport hack for Surface/desktop Windows 8 bug -->
  <link href="{% static 'css/ie10-viewport-bug-workaround.css' %}" rel="stylesheet">
  <!--<link href="../../css/ie10-viewport-bug-workaround.css" rel="stylesheet">-->

  <!-- Custom styles for this template -->
  <link href="{% static 'css/styles.css' %}" rel="stylesheet">

  <!-- Just for debugging purposes. Don't actually copy these 2 lines! -->
  <!--[if lt IE 9]><script src="../../assets/js/ie8-responsive-file-warning.js"></script><![endif]-->
  <script src="{% static 'js/ie-emulation-modes-warning.js' %}"></script>

  <!-- HTML5 shim and Respond.js for IE8 support of HTML5 elements and media queries -->
  <!--[if lt IE 9]>
    <script src="https://oss.maxcdn.com/html5shiv/3.7.3/html5shiv.min.js"></script>
    <script src="https://oss.maxcdn.com/respond/1.4.2/respond.min.js"></script>
  <![endif]-->
</head>

<body>

  <nav class="navbar navbar-inverse navbar-fixed-top">
    <div class="container">
      <div class="navbar-header">
        <a class="navbar-brand" href="/my_app/">ЛП4</a>
      </div>
      <div id="navbar" class="collapse navbar-collapse">
        <form class="navbar-form navbar-right">
```

```

    <span class="form-ask" >
      <input type="text" class="form-control" placeholder="Поиск">
    </span>
    <span>
      
      <!-- Single button -->
      <button type="button" class="btn btn-default dropdown-toggle" data-toggle="dropdown" aria-
haspopup="true" aria-expanded="false">
        UserName <span class="caret"></span>
      </button>
      <ul class="dropdown-menu">
        <li><a href="#">Настройки</a></li>
        <li><a href="#">Выйти</a></li>
      </ul>
    </span>
  </form>
</div><!-- /.nav-collapse -->
</div>
</nav>

<div class="container">
  <div id="main-panel" class="col-sm-8 panels">
    {% block main_block %}<div style="text-align:center">Главная панель здесь</div>{% endblock %}
  </div>
  <div id="side-panel" class="col-sm-3 panels">
    {% block side_block %}<div style="text-align:center">Боковая панель здесь</div>{% endblock %}
  </div>
</div><!-- /.container -->

<!-- Bootstrap core JavaScript
===== -->
<!-- Placed at the end of the document so the pages load faster -->
<script src="https://ajax.googleapis.com/ajax/libs/jquery/1.12.4/jquery.min.js"></script>
<script>window.jQuery || document.write('<script src="/js/vendor/jquery.min.js"></script>')</script>
<script src="{% static 'js/bootstrap.min.js'%}"></script>
<!-- IE10 viewport hack for Surface/desktop Windows 8 bug -->
<script src="{% static 'js/ie10-viewport-bug-workaround.js'%}"></script>
</body>
</html>

```

Index.html

```

{% extends 'base.html' %}
{% block title %}Index page{% endblock %}
{% block main_block %}
{% for news in news_list %}
  {% include 'news_element.html' with n=news %}
  {% if news.id == 2 %}
    <div class='alert alert-danger'><h5 style="text-align:center">Too much news for today</h5>
  </div>
  {% endif %}
{% endfor %}
{% endblock %}

```

News_element.html

```

<div class='news_elem'>
  <h2><a href="{% url 'news' n.id %}" >{{ n.title }}</a></h2>
  {{ n.content }}
</div>

```

Single_news.html

```
{% extends 'base.html' %}
{% block title %}{{ news.title }}{% endblock %}
{% block main_block %}
    {% include 'news_element.html' with n=news %}
    <a class="btn btn-default btn-block" href="{% url 'index' %}">Назад</a>
{% endblock %}

{% block side_block %}
    <h1 style="text-align:center">{{ news.title }}</h1>
{% endblock %}
```

Результаты работы

