Отчет по лабораторной работе № 7 по курсу "Разработка интернет-приложений"

«Авторизация»

ИСПОЛНИТЕЛЬ:

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                                        (подпись)

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Urls.py

```python
from django.conf.urls import url
from django.contrib import admin
from myapp.views import signIn, signUp, endreg, start

urlpatterns = [
    url(r'^admin/', admin.site.urls),
    url(r'^login/', endreg),
    url(r'^signin/', signIn),
    url(r'^signup/', signUp),
    url(r'^start/', start),
]
```

Views.py

```python
def start(request):
    if request.method == 'POST':
        if 'sign_in' in request.POST:
            return HttpResponseRedirect('/signin/')
        elif 'sign_up' in request.POST:
            return HttpResponseRedirect('/signup/')
    return render(request, 'start_page.html')


def signIn(request):
    errors = []
    if request.method == 'POST':
        form = EnterForm(request.POST)
        if form.is_valid():
            username = form.cleaned_data['username']
            password = form.cleaned_data['password']
            user = auth.authenticate(username=username, password=password)
            if user:
                auth.login(request, user)
                return HttpResponseRedirect('/login/')
            else:
                errors.append('Неверно введён логин или пароль')
    else:
        form = EnterForm()
    return render(request, 'signIn.html', {'form': form, 'errors': errors})
```

```python
def signUp(request):
    errors = []
    success = ''
    if request.method == 'POST':
        form = RegistrationForm(request.POST)
        if form.is_valid():
            username = form.cleaned_data['username']

            users = User.objects.all()
            usernames = []
            for x in users:
                usernames.append(x.username)

            if form.cleaned_data['password'] != form.cleaned_data['password2']:
                errors.append('Пароли должны совпадать')
            elif usernames.count(username) != 0:
                errors.append('Такой логин уже занят')
            else:
                user = User.objects.create_user(
                    username=form.cleaned_data['username'],
                    password=form.cleaned_data['password'],
                    email=form.cleaned_data['email'],
                    first_name=form.cleaned_data['first_name'],
                    last_name=form.cleaned_data['last_name']
                )
                user.save()
                success += 'You was successfully registered.'
                #return HttpResponseRedirect('/login/')

    else:
        form = RegistrationForm()

    return render(request, 'registration.html', {'form': form, 'errors': errors, 'success': success})
```

Html файлы:
Base.html

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>{% block title %}{% endblock %}</title>
</head>
<body>
    {% block body %}{% endblock %}
</body>
</html>
```

Start_page.html:

```html
{% extends 'base.html' %}
{% block title %}Start page{% endblock %}
{% block body %}
    <form method="post">
        {% csrf_token %}
        <label>
            Welcome
        </label><br><br>
        <button type="submit" name="sign_in">Sign in</button>
        <button type="submit" name="sign_up">Sign up</button>
    </form>
{% endblock %}
```

Registration.hrml:

```
{% extends 'base.html' %}
{% block title %}Sign Up{% endblock %}
{% block body %}
    <form method="post">
        {% csrf_token %}

        {% if errors != 0 %}
            {% for error in errors %}
                {{ error }}.
            {% endfor %}
        {% endif %}

        {{ form.as_p }}
        <button type="submit">Registration</button>
        {% if success != 0 %}
            {{ success }}
        {% endif %}
    </form>
{% endblock %}
```

endReg.html:

```
{% extends 'base.html' %}
{% block title %}End of Registration{% endblock %}
{% block body %}
    <form method="post">
        {% csrf_token %}
        You was Log In as {{ user.username }}<br><br>
        <button type="submit" name="logout">Log Out</button>
    </form>
{% endblock %}
```

singln.html:

```
{% extends 'base.html' %}
{% block title %}Sign In{% endblock %}
{% block body %}
    <form method="post">
        {% csrf_token %}

        {% if errors != 0 %}
            {% for error in errors %}
                {{ error }}.
            {% endfor %}
        {% endif %}

        {{ form.as_p }}
        <button type="submit">Log In</button>
    </form>
{% endblock %}
```

Forms.py:

```python
from django import forms


class RegistrationForm(forms.Form):
    username = forms.CharField(min_length=5, label='Login')
    password = forms.CharField(min_length=8, widget=forms.PasswordInput, label='Password')
    password2 = forms.CharField(min_length=8, widget=forms.PasswordInput, label='Repeat Password')
    email = forms.EmailField(label='Email')
    first_name = forms.CharField(label='First name')
    last_name = forms.CharField(label='Last name')


class EnterForm(forms.Form):
    username = forms.CharField(label='Login')
    password = forms.CharField(widget=forms.PasswordInput, label='Password')
```

Результаты работы при успешной регистрации:

Форма авторизации:

В случае успешной авторизации: