



Лабораторные работы по курсу:

«Разработка Интернет-приложений»

Отчет по домашнему заданию

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Задание:

Разработать веб-сервис на базе технологий: Python, Django, JS, MySQL.

```
Код: Views.py from django.shortcuts import
render
from django.http import
HttpResponseRedirect, HttpResponseRedirect,
JsonResponse
from django import forms
from django.contrib.auth import
authenticate, login, logout
from django.contrib.auth.decorators
import login_required
from django.views.generic import
ListView, View
from django.views.generic import
DetailView
import datetime
from .models import *

# Create your views here.
def home(request):
    parameters = {
        'header': "Содержимое"
    }
    return render(request, 'home.html',
context=parameters)

class GroupsView(ListView):
    model = Group
    template_name = 'home.html'
    context_object_name = 'group_list'

class PersonsView(ListView):
    model = Person
    template_name = 'home.html'
    context_object_name =
'persons_list'

# форма регистрации
```

```

class RegistrationForm(forms.Form):
    username =
forms.CharField(min_length=5,
label='Логин')
    password =
forms.CharField(min_length=8,
widget=forms.PasswordInput,
label='Пароль')
    password2 =
forms.CharField(min_length=8,
widget=forms.PasswordInput,
label='Повторите ввод')
    email =
forms.EmailField(label='Email')
    last_name =
forms.CharField(label='Фамилия')
    first_name =
forms.CharField(label='Имя')

class AuthorizationForm(forms.Form):
    username =
forms.CharField(label='Логин')
    password =
forms.CharField(widget=forms.PasswordInput, label='Пароль')

class GroupForm(forms.ModelForm):
    class Meta(object):
        model = Group
        fields = ['name', 'genre',
'description', 'pic']

    def save(self):
        group = Group()

        group.name =
self.cleaned_data.get('name')

        group.genre =
self.cleaned_data.get('genre')

        group.description =

```

```

self.cleaned_data.get('description')
    group.pic =
self.cleaned_data.get('pic')
    group.save()

def add(request):
    if request.method == 'POST':
        name1 =
request.POST.get('name')
        genrel =
request.POST.get('genre')
        member =
request.POST.get('member')
        date = request.POST.get('date')
        print(name1)
        print(member)
        description1 =
request.POST.get('description')
        pic1 = request.FILES.get('pic')
        group1 = Group(name=name1,
genre=genrel, description=description1,
                        pic=pic1)

        group1.save()

        return
HttpResponseRedirect('/item-' +
str(group1.id))

    return render(request, 'add.html',
locals())

# регистрация
def registration(request):
    if request.method == 'POST':
        form =
RegistrationForm(request.POST)
        is_val = form.is_valid()
        data = form.cleaned_data
        if data['password'] !=
data['password2']:
            is_val = False

```

```

        form.add_error('password2',
['Пароли должны совпадать'])
        if
User.objects.filter(username=data['user
name']).exists():
            form.add_error('username',
['Такой логин уже существует'])
            is_val = False

        if is_val:
            data = form.cleaned_data
            user =
User.objects.create_user(data['username
'], data['email'], data['password'])
            pers = Person()
            pers.user = user
            pers.first_name =
data['first_name']
            pers.last_name =
data['last_name']

            pers.save()
            return
HttpResponseRedirect('/authorization')
        else:
            form = RegistrationForm()

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

# авторизация django
def authorization(request):
    if request.method == 'POST':
        form =
AuthorizationForm(request.POST)
        print(form)
        data = form.cleaned_data

        if form.is_valid():
            user =
authenticate(request,
username=data['username'],
password=data['password'])

```

```

        # user =
authenticate(request,
username='petrov',password='12345678')
        if user is not None:
            login(request, user)
            return
HttpResponseRedirect('/success_authoriz
ation')

        else:

form.add_error('username', ['Неверный
логин или пароль'])
            # raise
forms.ValidationError('Имя пользователя
и пароль не подходят')

        else:
            form = AuthorizationForm()

            return render(request,
'authorization.html', {'form': form})

# успешная авторизация django
@login_required(login_url='/authorizati
on')
def success_authorization(request):
    return HttpResponseRedirect('/')

# ВЫХОД
def logout_view(request):
    logout(request)
    return HttpResponseRedirect('/')

class OneItem(DetailView):
    model = Group
    context_object_name = 'group'
    template_name = 'object.html'

    def get_context_data(self,
**kwargs):

```

```

        context = super(OneItem,
self).get_context_data(**kwargs)

        relation =
Membership.objects.filter(group=self.kw
args['pk'])
        # print(relation)
        customers_list = []
        for rel in relation:
            group =
Group.objects.get(id=rel.group_id)
            # print(group)
            member =
Person.objects.get(id=rel.person_id)
            # print(member)
            if member not in
customers_list:
                # print(member.user)

customers_list.append(member.user)
            # print(customers_list)
            context['customers_list'] =
customers_list
            context['group_id'] =
self.kwargs['pk']

        return context

```

```

def enter(request):
    if request.method == "GET":
        user =
User.objects.filter(username=request.GET['user_name'])
        pers =
Person.objects.get(user=user)
        group =
Group.objects.get(id=request.GET['group_id'])
        mem =
Membership.objects.create(person=pers,
group=group,

```

```
date_joined=datetime.datetime.now().date()

    return HttpResponse("ok")
```

Models.py

```
from django.db
import models

from
django.contrib.auth.models import
User, UserManager
from
django.contrib
import admin
from django.utils
import timezone
# Create your
models here.

from django.db
import models

class
Person(models.Model):
    user =
models.OneToOneField(User,
on_delete=models.
CASCADE)
    email =
models.CharField(
max_length=40)
    first_name =
models.CharField(
max_length=40)
    last_name =
models.CharField(
max_length=40)
```



```

        def
__str__(self):
        return
self.user.username

```

```

class
Group(models.Model):
    name =
models.CharField(
max_length=128,
blank=False,
null=False)
    members =
models.ManyToManyField(
Person,
through='Membership')
    genre =
models.CharField(
max_length=100)
    description =
models.TextField(
max_length=500,
default='No
description yet')
    pic =
models.ImageField(
(upload_to="hw/",
null=True,
blank=True,
max_length=1000)

```

```

        def
__str__(self):
        return
self.name

```

```

class
Membership(models

```

```

    .Model):
        person =
models.ForeignKey
(Person)
        group =
models.ForeignKey
(Group)
        date_joined =
models.DateField(
)

```

```

    def
__str__(self):
        return
str(self.person)+
" in
"+str(self.group)

```

```

urls.py from django.db import models

```

```

from django.contrib.auth.models import User, UserManager
from django.contrib import admin
from django.utils import timezone
# Create your models here.

```

```

from django.db import models

```

```

class Person(models.Model):
    user = models.OneToOneField(User,
on_delete=models.CASCADE)
    email = models.CharField(max_length=40)
    first_name = models.CharField(max_length=40)
    last_name = models.CharField(max_length=40)

```

```

    def __str__(self):
        return self.user.username

```

```

class Group(models.Model):
    name = models.CharField(max_length=128, blank=False,
null=False)

```

```

        members = models.ManyToManyField(Person,
through='Membership')
        genre = models.CharField(max_length=100)
        description = models.TextField(max_length=500,
default='No description yet')
        pic = models.ImageField(upload_to="hw/", null=True,
blank=True, max_length=1000)

    def __str__(self):
        return self.name


class Membership(models.Model):
    person = models.ForeignKey(Person)
    group = models.ForeignKey(Group)
    date_joined = models.DateField()

    def __str__(self):
        return str(self.person)+" in "+str(self.group)

```





