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



Домашнее задание по курсу:

«Разработка Интернет Приложений»

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Задание и порядок выполнения

Разработать вебсервис на базе технологий: Python, Django, JS, MySQL

Nº	Субъект	Отношение	Объект
15	Пользователь	Заказ	Компьютер

Исходный код:

settings.py

```
BASE DIR = os.path.dirname(os.path.dirname(os.path.abspath( file )))
SECRET KEY = 174gex83*3yh7=&y9p#ob7#3jliqqz1p82@mm(u^%if@+bip&!k'
DEBUG = True
ALLOWED HOSTS = []
INSTALLED APPS = [
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.staticfiles',
    'app.apps.AppConfig',
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',
ROOT URLCONF = 'Homework.urls'
TEMPLATES = [
        'BACKEND': 'django.template.backends.django.DjangoTemplates',
        'DIRS': [os.path.join(BASE DIR, 'templates')]
        'APP DIRS': True,
```

```
'OPTIONS': {
                'django.template.context processors.debug',
                'django.template.context_processors.request',
                'django.contrib.auth.context processors.auth',
                'django.contrib.messages.context processors.messages',
WSGI APPLICATION = 'Homework.wsgi.application'
DATABASES = {
        'ENGINE': 'django.db.backends.sqlite3',
        'NAME': os.path.join(BASE DIR, 'db.sqlite3'),
AUTH PASSWORD VALIDATORS = [
        'NAME':
'django.contrib.auth.password validation.UserAttributeSimilarityValidator',
'django.contrib.auth.password validation.MinimumLengthValidator',
        'NAME':
'django.contrib.auth.password validation.CommonPasswordValidator',
        'NAME':
django.contrib.auth.password validation.NumericPasswordValidator',
LANGUAGE CODE = 'en-us'
TIME ZONE = 'UTC'
USE I18N = True
USE L10N = True
```

```
# https://docs.djangoproject.com/en/1.11/howto/static-files/
STATIC_URL = '/static/'

STATICFILES_DIRS = [
    os.path.join(BASE_DIR, "static"),
    '/app/static/',
]

MEDIA_ROOT = os.path.join(BASE_DIR, 'app/media/')
MEDIA_URL = '/media/'
```

urls.py

```
from django.conf.urls import url, include
from django.contrib import admin
from app.views import
from django.conf.urls.static import static
from django.conf import settings
urlpatterns = [
      url(r'^admin/', admin.site.urls),
      url(r'^registration/', registration, name='registration url'),
     url(r'^logout/', logout, name='logout_url'),
url(r'^auth/', authorization, name='auth_url'),
url(r'^login/', loginn, name="login"),
url(r'^order/', order_add, name="order"),
url(r'^orderna/', order_non_auth, name="order_non_auth"),
     url(r'^computers/$', ComputersList.as_view(), name='computers_url'),
url(r'^computer/(?P<computer_id>\d+)/$', computer, name='computer_url'),
url(r'^orders/', OrdersView.as_view(), name="orders"),
      url(r'^add/', computer add, name="computer add"),
if settings.DEBUG:
     urlpatterns += static(settings.STATIC_URL,
   cument root=settings.STATIC ROOT)
     urlpatterns += static(settings.MEDIA URL,
    cument root=settings.MEDIA ROOT)
```

views.py

```
from django.shortcuts import render, HttpResponseRedirect
from django.urls import reverse
from django.views.generic import View, ListView
from app.forms import *
from .models import *
from app.registration import *
from django.contrib.auth.models import User
from django.contrib import auth
from django.contrib.auth import authenticate

def main(request):
    computers = Computer.objects.all()
    return render(request, 'main.html', {"computers": computers})

def order_non_auth(request):
    return render(request, 'order_non_auth.html')
```

```
def registration(request):
    form = RegistrationForm(request.POST or None)
        if form.is valid():
User.objects.create user(username=request.POST.get('username'),
                                              email=request.POST.get('email'),
bassword=request.POST.get('password'),
 first name=request.POST.get('firstname'),
 .ast name=request.POST.get('surname'))
            return HttpResponseRedirect('/computers')
    return render(request, 'registration.html', {'form': form})
    auth.logout(request)
    return HttpResponseRedirect('/')
    error = ""
    username = None
    password = None
        username = request.POST.get('username')
password = request.POST.get('password')
        user = authenticate(username=username, password=password)
        if user:
            auth.login(request, user)
            return HttpResponseRedirect('/')
    return render(request, 'auth.html', locals())
    return render(request, 'user.html', locals())
          OrderForm(request.POST or None, request.FILES or None)
    computers = Computer.objects.all()
        instance = form.save()
        Order.objects.get(id_order=instance.pk).id_user.add(request.user.id)
        return HttpResponseRedirect(reverse('main'))
    return render(request, "order add.html", {"computers": computers, "form":
form})
class ComputersList(ListView):
   model = Computer
    template_name = "computers.html"
paginate_by = 3
    form class = ComputerAddForm
        context = super().get_context_data(**kwargs)
        context['computers'] = Computer.objects.all()
```

```
return context
        form = self.form class(request.POST or None, request.FILES or None)
        if form.is valid():
             instance = form.save(commit=False)
            instance.save()
             return HttpResponseRedirect(reverse('computer url',
args=(instance.pk,)))
        return render(request, self.template name, {'form': form})
    if request.method == 'POST':
        Computer.objects.get(id computer=computer id)
return render(request, "computer.html", {'computer':
Computer.objects.get(id_computer=computer_id)}, locals())
class OrdersView(ListView):
    model = Order
    template name = 'orders.html'
        context = super().get context data(**kwargs)
        print(Order.objects.all().first().get users)
        return context
def computer add(request):
    form = ComputerAddForm(request.POST or None, request.FILES or None)
    context = {"form": form}
    if form.is valid():
        instance = form.save()
        return HttpResponseRedirect(reverse('computer url',
 irgs=(instance.pk, )))
    return render(request, "computer add.html", context)
```

forms.py

models.py

```
from django.db import models
from django.contrib.auth.models import User
class Computer(models.Model):
    id_computer = models.AutoField(primary_key=True)
name_computer = models.CharField(max_length=100,
    oose name='Компьютер')
    model_computer = models.CharField(max_length=100, verbose_name='Модель') company_computer = models.CharField(max_length=100,
      se_name='Производитель')
    price_computer = models.IntegerField(verbose name='Цена')
    characteristics_computer
models.TextField(verbose_name='Характеристики')
photo_computer = models.ImageField(null=True, blank=True,
         return self.name computer
    class Meta:
         verbose_name_plural = "Компьютеры"
class Order(models.Model):
    id order = models.AutoField(primary key=True, verbose name='ID 3akasa')
    id comp = models.ForeignKey(Computer, on delete=models.CASCADE,
      se name='Название компьютера')
    id user = models.ManyToManyField(User, verbose name='ID Пользователя')
         return [u.username for u in self.id user.all()]
    get users.short description = 'Заказы пользователей'
         verbose name plural = "Заказы"
         verbose name = "Заказ"
```

registration.py

```
from django import forms

class RegistrationForm(forms.Form):
    username = forms.CharField(min_length=5, label='Логин')
    password = forms.CharField(min_length=6, widget=forms.PasswordInput,
label='Пароль')
    password2 = forms.CharField(min_length=6, widget=forms.PasswordInput,
label='Повторите пароль')
    email = forms.EmailField(widget=forms.EmailInput, label='E-mail')
    firstname = forms.CharField(label='Имя')
    surname = forms.CharField(label='Фамилия')
```

admin.py

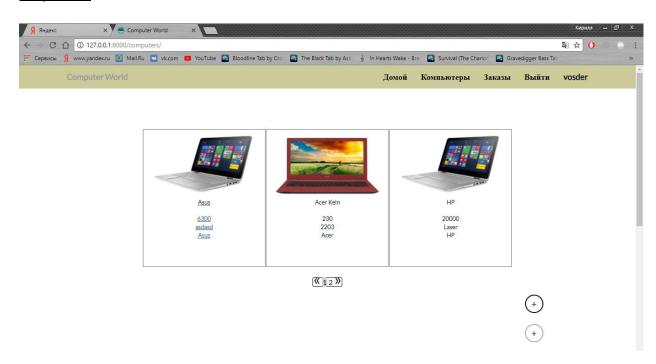
```
from django.contrib import admin
from app.models import *

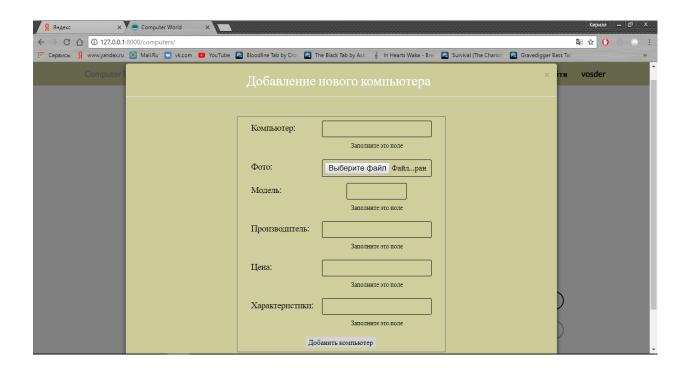
class OrderAdmin(admin.ModelAdmin):
    list_display = ['id_order']
    list_filter = ['id_comp']

class ComuterAdmin(admin.ModelAdmin):
    list_filter = ['company_computer']
    search_fields = ['name_computer', 'company_computer', 'model_computer']

admin.site.register(Order, OrderAdmin)
admin.site.register(Computer, ComuterAdmin)
admin.site.site_header = 'Django Администрирование'
admin.site.index_title = 'Администрирование'
```

Результат:





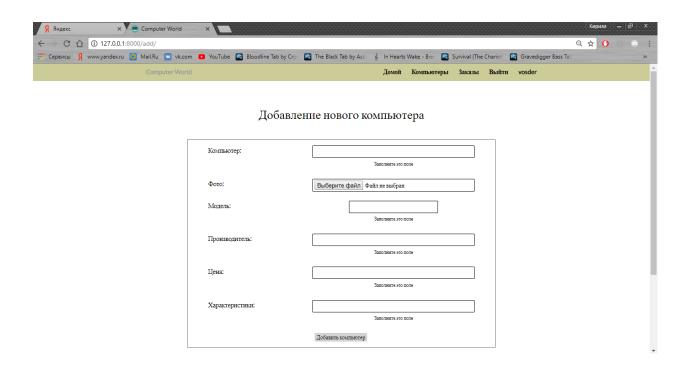




Таблица заказов

№ заказа	Название компьютера	Логин пользователя
30	Asus	['vosder']
31	HP	['vosder']
32	Acer Keln	['vosder']
33	HP	[ˈkirikˈ]

