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Кафедра ИУ5. Курс «Разработка интернет приложений»

Отчет по домашнему заданию

Вариант №9

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Задание

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

Исходный код

Booking.html

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

{% block main_block %}
<div class="main_block_elem">
<form method="POST" class="form-horizontal main-panel-elem">
  <h2 style="text-align:center">Бронирование отеля</h2>
  {% csrf_token %}
  {% for field in form %}
    {% for error in field.errors %}
      <div class="alert alert-danger" role="alert">{{ field.label }}: {{ error }}</div>
    {% endfor %}
  {% endfor %}

  {% for field in form %}
    <div class="form-group">
      <label for="{{ field.id_for_label }}" class="col-sm-3 control-label">{{ field.label }}</label>
      <div class="col-sm-9">
        {{ field }}
      </div>
    </div>
  {% endfor %}
  <div class="form-group">
    <div class="col-sm-offset-3 col-sm-9">
      <button type="submit" class="btn btn-primary">Забронировать</button>
    </div>
  </div>
</form>
</div>
{% endblock %}

{% block side_block %}
<div class="side-panel-elem">
  {% include "traveler_info.html" %}
</div>
{% endblock %}
```

Booking_list.html

```
{% extends "base.html" %}
asd
{% block main_block %}
<h2>Бронирования</h2>
{% for obj in object_list %}
<div class="main-panel-elem">
  <div class="row">
    <div class="col-md-2">
      {% load static %}
      
    </div>
    <div class="col-md-10">
      <h3><a href="{% url 'hotel_page' obj.hotel.name %}">{{ obj.hotel.name }}</a></h3>
      <div style="">{{ obj.hotel.adress }}</div>
      <div>Цена: {{ obj.price }}</div>
      <div>{{ obj.start_date }} - {{ obj.end_date }}</div>
    </div>
  </div>
</div>
{% endfor %}
```

```

</div>
{% empty %}
<div class="main-panel-elem">
    На данный момент вы ничего не забронировали
</div>
{% endfor %}
{% if paginator.num_pages > 1 %}
    {% if page_obj.has_previous %}
        <a href="{% url 'book_list_page' page_obj.previous_page_number %}">
            <span class="glyphicon glyphicon-chevron-left"></span>
        </a>
    {% endif %}
    {% if page_obj.has_next %}
        <a href="{% url 'book_list_page' page_obj.next_page_number %}">
            <span class="glyphicon glyphicon-chevron-right"></span>
        </a>
    {% endif %}
{% endif %}
{% endblock %}

{% block side_block %}
<h2>Пользователь:</h2>
<div class="side-panel-elem">
    {% include "traveler_info.html" %}
</div>
<!--<div class="side-panel-elem">-->
<div><a class="btn btn-primary" href="{% url 'hotel_list' %}" role="button">Забронировать отель</a></div>
<!--</div>-->
{% endblock %}

```

Hotel_list.html

```

{% extends "base.html" %}

{% block main_block %}
<h2>Выберите отели</h2>
{% for obj in object_list %}
<div class="main-panel-elem">
    <div class="row">
        <div class="col-md-2">
            {% load static %}
            <!---->
            
        </div>
        <div class="col-md-10">
            <h3><a href="{% url 'hotel_page' obj.name %}">{{ obj.name }}</a></h3>
            <div style="">{{ obj.adress }}</div>
            Описание: {{ obj.description }}
            <div><a class="btn btn-primary" href="{% url 'booking' obj.name %}"
role="button">Забронировать</a></div>
            <!--<div><a class="btn btn-primary btn_modal_booking" href="#modalBooking" role="button" data-
toggle="modal">Забронировать</a></div>-->
        </div>
    </div>

</div>
{% empty %}
<div class="main-panel-elem">
    Отелей для бронирования пока нет
</div>
{% endfor %}
{% if paginator.num_pages > 1 %}

```

```

{% if page_obj.has_previous %}
  <a href="{% url 'hotel_list_page' page_obj.previous_page_number %}">
    <span class="glyphicon glyphicon-chevron-left"></span>
  </a>
{% endif %}
{% if page_obj.has_next %}
  <a href="{% url 'hotel_list_page' page_obj.next_page_number %}">
    <span class="glyphicon glyphicon-chevron-right"></span>
  </a>
{% endif %}
{% endif %}
{% endblock %}

{% block side_block %}
<h2>Пользователь:</h2>
<div class="side-panel-elem">
  {% include "traveler_info.html" %}
</div>
{% endblock %}

```

Hotel_page.html

```

{% extends "base.html" %}

{% block main_block %}
{% csrf_token %}
<h2 id="hotel_name">{{ hotel.name }}</h2>
<div class="main-panel-elem">
  {% if hotel is None %}
    <h3>Такого отеля нет в базе данных</h3>
  {% else %}
    <div class="row">
      <div class="col-md-4" style="text-align: center;">
        {% load static %}
        
      </div>
      <div class="col-md-8">
        <div style=""><h4>Адрес:</h4>{{ hotel.adress }}</div>
        {% if features is not None %}
        <div style=""><h4>Особенности:</h4></div>
        {% for feature in features %}
        <span class="label label-default" style="margin-right:5px;">
          {{ feature }}
        </span>
        {% endfor %}
        {% endif %}
        <div><h4>Описание:</h4> {{ hotel.description }}</div>
        <div><h4 id="last_bookings_header" hidden="True">Ваши последние бронирования:</h4></div>
        <table class="table" id="last_bookings" onload="load_last_bookings()"></table>
        <!--<div><a class="btn btn-primary" href="{% url 'booking' hotel.name %}" role="button"
style="margin-top: 10px;">Забронировать</a></div>-->
        <div><a href="#" class="btn btn-primary btn_modal_booking" style="margin-top:
10px;">Забронировать</a></div>

        <!-- HTML-код модального окна -->
        <div id="modalBooking" class="modal fade" ontoggle="book_modal_load()">
          <div class="modal-dialog">
            <div class="modal-content">
              <!-- Заголовок модального окна -->
              <div class="modal-header">
                <button type="button" class="close" data-dismiss="modal" aria-hidden="true">×</button>

```

```

        <h4 class="modal-title">Бронирование отеля</h4>
    </div>
    <!-- Основное содержимое модального окна -->
    <div class="modal-body">
        <form id="booking_form" method="POST" class="form-horizontal" enctype="multipart/form-
data" >
            <div id="date_errors" class="alert alert-danger" role="alert" hidden="True"></div>
            {% for field in booking_form %}
            <div class="form-group">
                <label for="{{ field.id_for_label }}" class="col-sm-3 control-
label">{{ field.label }}:</label>
                <div class="col-sm-9">
                    {{ field }}
                </div>
            </div>
            {% endfor %}
            <div id="success_booking" class="alert alert-success" role="alert" hidden="True"></div>
        </form>
    </div>
    <!-- Футер модального окна -->
    <div class="modal-footer">
        <button id="btn_close" type="button" class="btn btn-default" data-
dismiss="modal">Закрыть</button>
        <button id="btn_book" type="button" class="btn btn-primary">Забронировать</button>
    </div>
</div>
</div>
</div>
    {% endif %}
</div>
{% endblock %}

{% block side_block %}
<h2>Пользователь:</h2>
<div class="side-panel-elem">
    {% include "traveler_info.html" %}
</div>
{% endblock %}

```

Hotel_registration.html

```

{% extends "base.html" %}

{% block main_block %}
<div class="main_block_elem">
<form method="POST" class="form-horizontal main-panel-elem" enctype="multipart/form-data" >
    <h2 style="text-align:center">Регистрация отеля</h2>
    {% csrf_token %}
    {% for field in form %}
        {% for error in field.errors %}
            <div class="alert alert-danger" role="alert">{{ field.label }}: {{ error }}</div>
        {% endfor %}
    {% endfor %}

    {% for field in form %}
    <div class="form-group">
        <label for="{{ field.id_for_label }}" class="col-sm-3 control-label">{{ field.label }}:</label>
        <div class="col-sm-9">

```

```

        {{ field }}
    </div>
</div>
{% endfor %}
<div class="form-group">
    <div class="col-sm-offset-3 col-sm-9">
        <button type="submit" class="btn btn-primary">Зарегистрировать</button>
    </div>
</div>
</form>
</div>
{% endblock %}

{% block side_block %}
<h3></h3>
{% endblock %}

```

Registration.html

```

{% extends "base.html" %}

{% block main_block %}
{% if not user.is_authenticated %}
<div class="main_block_elem">
<form method="POST" class="form-horizontal main-panel-elem">
    <h2 style="text-align:center">Регистрация пользователя</h2>
    {% csrf_token %}
    {% for field in form %}
        {% for error in field.errors %}
            <div class="alert alert-danger" role="alert">{{ field.label }}: {{ error }}</div>
        {% endfor %}
    {% endfor %}

    {% for field in form %}
    <div class="form-group">
        <label for="{{ field.id_for_label }}" class="col-sm-3 control-label">{{ field.label }}:</label>
        <div class="col-sm-9">
            {{ field }}
        </div>
    </div>
    {% endfor %}
    <div class="form-group">
        <div class="col-sm-offset-3 col-sm-9">
            <button type="submit" class="btn btn-primary">Зарегистрироваться</button>
        </div>
    </div>
</form>
</div>
{% else %}
<div class="main-panel-elem">
    <h2>Выйдите из системы, чтобы иметь возможность зарегистрироваться</h2>
</div>
{% endif %}
{% endblock %}

{% block side_block %}
<div class="side-panel-elem">
    <h3>Зарегистрируйтесь в системе</h3>
</div>
{% endblock %}

```

Self_hotel_list.html

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

{% block main_block %}
{% if not user.is_authenticated %}
<div class="main_block_elem">
<form method="POST" class="form-horizontal main-panel-elem">
  <h2 style="text-align:center">Регистрация пользователя</h2>
  {% csrf_token %}
  {% for field in form %}
    {% for error in field.errors %}
      <div class="alert alert-danger" role="alert">{{ field.label }}: {{ error }}</div>
    {% endfor %}
  {% endfor %}

  {% for field in form %}
    <div class="form-group">
      <label for="{{ field.id_for_label }}" class="col-sm-3 control-label">{{ field.label }}</label>
      <div class="col-sm-9">
        {{ field }}
      </div>
    </div>
  {% endfor %}
  <div class="form-group">
    <div class="col-sm-offset-3 col-sm-9">
      <button type="submit" class="btn btn-primary">Зарегистрироваться</button>
    </div>
  </div>
</form>
</div>
{% else %}
<div class="main-panel-elem">
  <h2>Выйдите из системы, чтобы иметь возможность зарегистрироваться</h2>
</div>
{% endif %}
{% endblock %}

{% block side_block %}
<div class="side-panel-elem">
  <h3>Зарегистрируйтесь в системе</h3>
</div>
{% endblock %}
```

Traveler_info.html

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

{% block main_block %}
{% if not user.is_authenticated %}
<div class="main_block_elem">
<form method="POST" class="form-horizontal main-panel-elem">
  <h2 style="text-align:center">Регистрация пользователя</h2>
  {% csrf_token %}
  {% for field in form %}
    {% for error in field.errors %}
      <div class="alert alert-danger" role="alert">{{ field.label }}: {{ error }}</div>
    {% endfor %}
  {% endfor %}

  {% for field in form %}
    <div class="form-group">
      <label for="{{ field.id_for_label }}" class="col-sm-3 control-label">{{ field.label }}</label>
```



```

    <div class="col-sm-9">
        {{ field }}
    </div>
</div>
{% endfor %}
<div class="form-group">
    <div class="col-sm-offset-3 col-sm-9">
        <button type="submit" class="btn btn-primary">Зарегистрироваться</button>
    </div>
</div>
</form>
</div>
{% else %}
<div class="main-panel-elem">
    <h2>Выйдите из системы, чтобы иметь возможность зарегистрироваться</h2>
</div>
{% endif %}
{% endblock %}

{% block side_block %}
<div class="side-panel-elem">
    <h3>Зарегистрируйтесь в системе</h3>
</div>
{% endblock %}

```

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="Booking site">
    <meta name="author" content="Дудырев Егор">
    {% load static %}
    <link rel="icon" href="{% static 'img/favicon.ico' %}">

    <title>{% block title %}Starter Template HW{% 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-->

```

```

<![endif]-->
</head>

<body>

<nav class="navbar navbar-inverse navbar-fixed-top">
  <div class="container">
    <div class="navbar-header">
      <a class="navbar-brand" href="{% url 'index' %}">Bookng</a>
    </div>
    <div id="navbar" class="collapse navbar-collapse">
      <form class="navbar-form navbar-right">
        {% if user.is_authenticated %}
          <li class="dropdown">
            <button href="#" class="btn btn-default dropdown-toggle" data-toggle="dropdown" role="button"
aria-haspopup="true" aria-expanded="false">
              {{ traveler.first_name }}
            <span class="caret"></span>
          </button>
          <ul class="dropdown-menu">
            <!--<li><a href="{% url 'trav_settings' %}">Настройки</a></li>-->
            <!--<li><a href="#">Настройки</a></li>-->
            <li><a href="{% url 'logout' %}">Выйти</a></li>
            <li role="separator" class="divider"></li>
            <li><a href="{% url 'hotel_registration' %}">Регистрация отеля</a></li>
            <!--<li><a href="{% url 'self_hotel_list' %}">Мои отели</a></li>-->
          </ul>
        </li>
        <!--
        <li class="dropdown">
          <button type="button" class="btn btn-default dropdown-toggle" data-toggle="dropdown" aria-
haspopup="true" aria-expanded="false">
            {{ user.username }}
          <span class="caret"></span>
        </button>
        <li class="dropdown">
          <ul><a class="dropdown-item" href="{% url 'trav_settings' %}">Настройки</a></ul>
          <ul><a class="dropdown-item" href="{% url 'logout' %}">Выйти</a></ul>
          <div class="dropdown-divider"></div>
          <ul><a class="dropdown-item" href="{% url 'hotel_registration' %}">Регистрация отеля</a></ul>
        </li>
        </li>-->
        {% else %}
          <a role="button" class="btn btn-default" href="{% url 'authorization' %}">Войти</a>
          <a role="button" class="btn btn-default" href="{% url 'registration' %}">Зарегистрироваться</a>
        {% endif %}
      </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 %}
    {% 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>
<script src="{ % static 'js/scripts.js' %}"></script>
</body>
</html>

```

Authorization.html

```

{% extends "base.html" %}

{% block main_block %}
{% if not user.is_authenticated %}
<form method="POST" class="form-horizontal main-panel-elem">
  <h2>Авторизация</h2>
  {% csrf_token %}
  {% for field in form %}
    {% for error in field.errors %}
      <div class="alert alert-danger" role="alert">{{ error }}</div>
    {% endfor %}
  {% endfor %}

  {% for field in form %}
  <div class="form-group">
    <label for="{{ field.id_for_label }}" class="col-sm-3 control-label">{{ field.label }}:</label>
    <div class="col-sm-9">
      {{ field }}
    </div>
  </div>
  {% endfor %}
  <div class="form-group">
    <div class="col-sm-offset-3 col-sm-9">
      <button type="submit" class="btn btn-primary">Войти</button>
    </div>
  </div>
  <div class="form-group">
    <div class="col-sm-offset-3 col-sm-9">
      <a href="{ % url 'registration' %}" type="submit" class="btn btn-primary">Регистрация</a>
    </div>
  </div>
</form>
{% else %}
<div class="main-panel-elem">
  <h2>Выйдите из системы, чтобы иметь возможность авторизоваться</h2>
</div>
{% endif %}
{% endblock %}

{% block side_block %}
<div class="side-panel-elem">
<h3>Без авторизации пользование порталом невозможно</h3>
</div>
{% endblock %}

```

Views.py

```

from django.contrib.auth.decorators import login_required
from django.utils.decorators import method_decorator

```

```

from django.shortcuts import render
from django.http import HttpResponseRedirect, HttpResponse, Http404, JsonResponse
from django.views.generic import ListView, DetailView
from django.contrib.auth import authenticate, login, logout
from . import models
from .forms import *
import logging
import datetime
import json
from django.core.serializers.json import DjangoJSONEncoder

```

```

logger = logging.getLogger('views')

```

```

class BookingListView(ListView):
    model = models.Booking
    template_name = 'booking_list.html'
    paginate_by = 3

    def get_context_data(self, **kwargs):
        context = super(BookingListView, self).get_context_data(**kwargs)
        context['traveler'] = models.Traveler.objects.get(user=self.request.user)
        return context

    def get_queryset(self):
        try:
            trav = models.Traveler.objects.get(user=self.request.user)
            qs = models.Booking.objects.filter(user=trav)
        except:
            qs = None
        if qs is not None:
            qs = qs.order_by('-start_date')
        return qs

    @method_decorator(login_required(login_url='authorization'))
    def dispatch(self, request, *args, **kwargs):
        return super(BookingListView, self).dispatch(request, *args, **kwargs)

```

```

class SelfHotelListView(ListView):
    model = models.Hotel
    template_name = 'self_hotel_list.html'

    def get_context_data(self, **kwargs):
        context = super(SelfHotelListView, self).get_context_data(**kwargs)
        context['traveler'] = models.Traveler.objects.get(user=self.request.user)
        return context

    def get_queryset(self):
        try:
            qs = models.Hotel.objects.filter(owner=self.request.user)
            for q in qs:
                if len(q.description)>50:
                    q.description = q.description[:50]+'...'
        except:
            qs = None
        return qs

    @method_decorator(login_required(login_url='authorization'))
    def dispatch(self, request, *args, **kwargs):
        return super(SelfHotelListView, self).dispatch(request, *args, **kwargs)

```

```

class HotelListView(ListView):
    model = models.Hotel
    template_name = 'hotel_list.html'
    paginate_by = 3

    def get_context_data(self, **kwargs):
        context = super(HotelListView, self).get_context_data(**kwargs)
        context['traveler'] = models.Traveler.objects.get(user=self.request.user)
        #context['booking_form'] = BookingForm()
        return context

    def get_queryset(self):
        qs = super(HotelListView, self).get_queryset()
        if qs is not None:
            for q in qs:
                if len(q.description)>50:
                    q.description = q.description[:50]+'...'
            return qs

    @method_decorator(login_required(login_url='authorization'))
    def dispatch(self, request, *args, **kwargs):
        return super(HotelListView, self).dispatch(request, *args, **kwargs)

@login_required(login_url='authorization')
def hotel_page(request, hotel):
    context = {}
    try:
        context['hotel'] = models.Hotel.objects.get(name=hotel)
        context['features'] = context['hotel'].features.all()
        context['booking_form'] = BookingForm()
        if len(context['features']) == 0:
            context['features'] = None
    except:
        context['hotel'] = None

    context['traveler'] = models.Traveler.objects.get(user=request.user)
    return render(request, 'hotel_page.html', context)

def authorization(request):
    if request.method == 'POST':
        form = AuthorizationForm(request.POST)

        is_val = form.is_valid()
        if is_val:
            data = form.cleaned_data
            user = authenticate(request, username=data['username'], password=data['password'])
            try:
                models.Traveler.objects.get(user=user)
            except:
                form.add_error('username', ['Логин или пароль введены неверно'])
                is_val = False

        if is_val:
            login(request, user)
            try:
                return HttpResponseRedirect(request.GET['next'])
            except:
                return HttpResponseRedirect('/hw')
        else:

```

```

    form = AuthorizationForm()

    context = {'form':form}
    if request.user.is_authenticated():
        context['traveler'] = models.Traveler.objects.get(user=request.user)
    return render(request, 'authorization.html',context)

def registration(request):
    if request.method == 'POST':
        form = RegistrationForm(request.POST, request.FILES)
        is_val = form.is_valid()

        if is_val:
            data = form.cleaned_data
            if data['password']!=data['password2']:
                is_val = False
                form.add_error('password2',['Пароли должны совпадать'])
            if models.User.objects.filter(username=data['username']).exists():
                form.add_error('username',['Пользователь с данным логином уже существует'])
                is_val = False
            if models.User.objects.filter(email=data['email']).exists():
                form.add_error('email',['Пользователь с данной электронной почтой уже зарегистрирован'])
                is_val = False

            if is_val:
                traveler = form.save(commit=False)
                traveler.user = models.User.objects.create_user(data['username'], data['email'], data['password'])
                traveler.save()

                return HttpResponseRedirect('/hw/authorization')
            else:
                form = RegistrationForm()

        context = {'form':form}
        if request.user.is_authenticated():
            context['traveler'] = models.Traveler.objects.get(user=request.user)
        return render(request, 'registration.html',context)

@login_required(login_url='authorization')
def hotel_registration(request):
    if request.method == 'POST':
        form = HotelRegistrationForm(request.POST, request.FILES)
        is_val = form.is_valid()
        print('validation: {}'.format(is_val))
        if is_val:
            data = form.cleaned_data
            if models.Hotel.objects.filter(name=data['name']).exists():
                form.add_error('name',['Отель с таким названием уже зарегистрирован'])
                is_val = False
            if is_val:
                hotel = form.save(commit=False)
                hotel.owner = request.user
                hotel.save()
                form.save_m2m()
                return HttpResponseRedirect('/hw/hotel_list')
            else:
                form = HotelRegistrationForm()

        traveler = models.Traveler.objects.get(user=request.user)
        return render(request, 'hotel_registration.html', {'form':form, 'traveler':traveler})

```

```

@login_required(login_url='authorization')
def booking(request, hotel):
    traveler = models.Traveler.objects.get(user=request.user)
    inits = {'user': '{ } {}'.format(traveler.last_name, traveler.first_name),
            'hotel': hotel,
            'price': 5000}
    if request.method == "POST":
        form = BookingForm(request.POST, initial=inits)
        is_val = form.is_valid()
        if is_val:
            data = form.cleaned_data
            if not str.isnumeric(data['price']):
                form.add_error('price', ['Цена указана некорректно'])
                is_val = False
            if data['start_date'] >= data['end_date']:
                form.add_error('end_date', ['Введённая дата отбытия предшествует дате прибытия'])
                is_val = False
            if is_val:
                book = models.Booking()
                book.user = traveler
                book.hotel = models.Hotel.objects.get(name=data['hotel'])
                book.price = int(data['price'])
                book.start_date = data['start_date']
                book.end_date = data['end_date']
                book.save()
                return HttpResponseRedirect('/hw')
        else:
            form = BookingForm(initial=inits)

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

@login_required(login_url='authorization')
def logout_view(request):
    logout(request)
    return HttpResponseRedirect('/hw')

@login_required(login_url='authorization')
def trav_settings(request):
    return HttpResponseRedirect("Такой странички пока нет")

def index(request):
    if not request.user.is_authenticated:
        return HttpResponseRedirect('authorization')
    else:
        return HttpResponseRedirect('book_list/1')

def ajax_book(request):
    if request.method == "POST":
        hotel = models.Hotel.objects.get(name=request.POST['hotel_name'])
        traveler = models.Traveler.objects.get(user=models.User.objects.get(email=request.POST['user_email']))
        start_date =
datetime.date(int(request.POST['start_year']), int(request.POST['start_month']), int(request.POST['start_day']))
        end_date =
datetime.date(int(request.POST['end_year']), int(request.POST['end_month']), int(request.POST['end_day']))
        price = int(request.POST['price'])

```

```

    book = models.Booking()
    book.user = traveler
    book.hotel = hotel
    book.price = price
    book.start_date = start_date
    book.end_date = end_date
    book.save()
    return HttpResponse('success')
    #return HttpResponse(datetime.(request.POST['start_date']))
    #return HttpResponse(forms.DateField(request.POST['start_date']))

def ajax_last_bookings(request):
    hotel = models.Hotel.objects.get(name=request.GET['hotel_name'])
    traveler = models.Traveler.objects.get(user=models.User.objects.get(email=request.GET['user_email']))
    bookings = models.Booking.objects.filter(hotel=hotel, user=traveler).order_by('-booking_date').all()[:5]
    if len(bookings) == 0:
        return HttpResponse('-')

    response =
    "<thead><tr><th>Забронировано</th><th>Прибытие</th><th>Отбытие</th><th>Стоимость</th></tr></thead>"
    for b in bookings:
        response +=
        "<tr><td>{ }</td><td>{ }</td><td>{ }</td><td>{ }</td></tr>".format(b.booking_date.date(),b.start_date,
        b.end_date, b.price)

    return HttpResponse(response)

```

Models.py

```

from django.db import models
from django.contrib.auth.models import User
from django.utils.timezone import now

class Traveler(models.Model):
    user = models.OneToOneField(User, on_delete=models.CASCADE, verbose_name='Пользователь')
    first_name = models.CharField(max_length=30, verbose_name='Имя')
    last_name = models.CharField(max_length=30, verbose_name='Фамилия')
    photo = models.ImageField(upload_to='trav_avats/', blank=True, default='trav_avats/default.png',
    verbose_name='Фотография')

    objects = models.Manager()

    class Meta:
        ordering = ('last_name','first_name',)

    def __str__(self):
        return "{ }".format(self.user.username)#, self.last_name, self.first_name)

class HotelFeature(models.Model):
    title = models.CharField(max_length=30, verbose_name='Название')

    objects = models.Manager()

    class Meta:
        ordering = ('title',)

    def __str__(self):
        return "{ }".format(self.title)

```



```

class Hotel(models.Model):
    owner = models.ForeignKey(User, on_delete=models.CASCADE, verbose_name='Владелец')
    name = models.CharField(max_length=30, verbose_name='Название')
    adress = models.CharField(max_length=30, verbose_name='Адрес')
    description = models.CharField(max_length=255, null=True, verbose_name='Описание')
    photo = models.ImageField(upload_to='hotel_avats/', blank=True, default='hotel_avats/default.png',
    verbose_name='Фотография')
    features = models.ManyToManyField(HotelFeature, blank=True, verbose_name='Особенности')

    objects = models.Manager()

    class Meta:
        ordering = ('name',)

    # def __str__(self):
    #     return "{}".format(self.name)

class Booking(models.Model):
    user = models.ForeignKey(Traveler, on_delete=models.CASCADE, verbose_name='Постоялец')
    hotel = models.ForeignKey(Hotel, on_delete=models.CASCADE, verbose_name='Отель')
    price = models.IntegerField(verbose_name='Стоимость')
    start_date = models.DateField(verbose_name='Дата заезда')
    end_date = models.DateField(verbose_name='Дата отъезда')
    booking_date = models.DateTimeField(default=now, blank=False, verbose_name='Дата бронирования')

    objects = models.Manager()

    class Meta:
        ordering = ('-start_date',)

    def __str__(self):
        return "{}: {} {}".format(self.user.user.username, self.start_date, self.end_date)

```

Forms.py

```

from django import forms
from . import models

```

```

class AuthorizationForm(forms.Form):
    username = forms.CharField(min_length=5, label='Логин')
    password = forms.CharField(min_length=8, widget=forms.PasswordInput, label='Пароль')

class RegistrationForm(forms.ModelForm):
    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')
    photo = forms.FileField(label='Аватар', widget=forms.ClearableFileInput(attrs={'class': 'ask-signup-avatar-input'}), required=False)

    class Meta:
        model = models.Traveler
        fields = ('username', 'password', 'password2', 'email', 'last_name', 'first_name', 'photo')

class HotelRegistrationForm(forms.ModelForm):
    name = forms.CharField(min_length=5, max_length=30, label='Название')

```

```

adress = forms.CharField(min_length=1, max_length=30, label='Адрес')
description = forms.CharField(min_length=1, max_length=255, label='Описание')
photo = forms.FileField(label='Фотография', required=False)

```

```

class Meta:
    model = models.Hotel
    fields = ('name', 'adress', 'description', 'photo', 'features')

```

```

class BookingForm(forms.Form):
    user = forms.CharField(disabled=True, label='Постоялец')
    hotel = forms.CharField(disabled=True, label='Отель')
    price = forms.CharField(disabled=True, label='Стоимость')
    start_date = forms.DateField(widget=forms.SelectDateWidget(), label='Дата прибытия')
    end_date = forms.DateField(widget=forms.SelectDateWidget(), label='Дата отбытия')

```

Admin.py

```

from django import forms
from . import models

```

```

class AuthorizationForm(forms.Form):
    username = forms.CharField(min_length=5, label='Логин')
    password = forms.CharField(min_length=8, widget=forms.PasswordInput, label='Пароль')

```

```

class RegistrationForm(forms.ModelForm):
    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')
    photo = forms.FileField(label='Аватар', widget=forms.ClearableFileInput(attrs={'class': 'ask-signup-avatar-input'}), required=False)

```

```

class Meta:
    model = models.Traveler
    fields = ('username', 'password', 'password2', 'email', 'last_name', 'first_name', 'photo')

```

```

class HotelRegistrationForm(forms.ModelForm):
    name = forms.CharField(min_length=5, max_length=30, label='Название')
    adress = forms.CharField(min_length=1, max_length=30, label='Адрес')
    description = forms.CharField(min_length=1, max_length=255, label='Описание')
    photo = forms.FileField(label='Фотография', required=False)

```

```

class Meta:
    model = models.Hotel
    fields = ('name', 'adress', 'description', 'photo', 'features')

```

```

class BookingForm(forms.Form):
    user = forms.CharField(disabled=True, label='Постоялец')
    hotel = forms.CharField(disabled=True, label='Отель')
    price = forms.CharField(disabled=True, label='Стоимость')
    start_date = forms.DateField(widget=forms.SelectDateWidget(), label='Дата прибытия')
    end_date = forms.DateField(widget=forms.SelectDateWidget(), label='Дата отбытия')

```


Результаты работы

Bookng

Пётр ▾


Press F11 to exit full screen

Бронирования




Long Description Hotel

Planet Earth
Цена: 3000
Dec. 12, 2017 - Dec. 15, 2017



Long Description Hotel

Planet Earth
Цена: 5000
Dec. 1, 2017 - Dec. 27, 2017




Измайлово Альфа

Москва, Измайлово
Цена: 5000
Nov. 11, 2017 - Nov. 12, 2017

>

Пользователь:

Петров Пётр
petrov@rip.ru



Забронировать отель

Bookng

Пётр ▾

Бронирование отеля

Постоялец:

Отель:


Стоимость:

Дата прибытия:

Дата отбытия:

Забронировать


Петров Пётр
petrov@rip.ru



Bookng

Пётр ▾

Long Description Hotel



Адрес:

Planet Earth

Описание:

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nunc ultrices nibh arcu, nec tristique sem vehicula sit amet. Pellentesque bibendum, tortor nec mattis aliquet, arcu metus consequat odio, eu sollicitudin mauris enim a leo. Fusce eget lacus tempus,


Ваши последние бронирования:

Забронировано	Прибытие	Отбытие	Стоимость
2017-11-24	2017-12-12	2017-12-15	3000
2017-11-24	2017-01-01	2017-01-15	14000
2017-11-24	2017-12-01	2017-12-27	5000
2017-11-24	2017-01-10	2017-01-13	5000
2017-11-24	2017-11-01	2017-12-01	31000

Забронировать


Пользователь:

Петров Пётр
petrov@rip.ru



Bookng Пётр ▾

Long Description Hotel



Постоялец:

Отель:

Стоимость:

Дата прибытия:

Дата отбытия:

Ошибка. Отбытие раньше прибытия.

2017-11-24	2017-12-01	2017-12-27	5000
2017-11-24	2017-01-10	2017-01-13	5000
2017-11-24	2017-11-01	2017-12-01	31000

Пользователь:

Bookng Войти Зарегистрироваться

Авторизация

Логин:

Пароль:

Без авторизации пользование порталом невозможно

Bookng Войти Зарегистрироваться

Регистрация пользователя

Логин:

Пароль:

Повторите ввод:

Email: Please fill out this field.

Фамилия:

Имя:

Аватар: No file chosen

Зарегистрируйтесь в системе

Регистрация отеля

Название:
 Адрес:
 Описание:
 Фотография: No file chosen
 Особенности:

Бесплатный Wi-Fi
 Близко к центру
 Великолепный завтрак
 Ресторан на территории

Site administration | Django site admin - Chromium

127.0.0.1:8000/admin/

Apps Яндекс Моя почта Deezer Яндекс.Переводчик Books for prog Music science Where to go Coursera | Online C Guess the Correlati Other bookmarks

Django administration

WELCOME, ADMIN VIEW SITE / CHANGE PASSWORD / LOG OUT

Site administration

AUTHENTICATION AND AUTHORIZATION

Groups

Users

HW

Bookings

Hotel features

Hotels

Travelers

Recent actions

My actions

None available

Select traveler to change | Django site admin - Chromium

127.0.0.1:8000/admin/hw/traveler/

Apps Яндекс Моя почта Deezer Яндекс.Переводчик Books for prog Music science Where to go Coursera | Online C Guess the Correlati Other bookmarks

Django administration

WELCOME, ADMIN VIEW SITE / CHANGE PASSWORD / LOG OUT

Home : HW : Travelers

Select traveler to change

Action: 0 of 3 selected

<input type="checkbox"/>	USERNAME	FULL NAME	HAS BOOKINGS
<input type="checkbox"/>	ivanov	Иванов Иван	True
<input type="checkbox"/>	petrov	Петров Пётр	True
<input type="checkbox"/>	test_u	Фамил Имя	False

3 travelers

Select booking to change | Django site admin - Chromium

Select booking to change

WELCOME: ADMIN VIEW SITE / CHANGE PASSWORD / LOG OUT

Home: Hw: Bookings

Select booking to change

ADD BOOKING +

Action: ----- Go 0 of 20 selected

<input type="checkbox"/>	USERNAME	HOTELNAME	СТОИМОСТЬ	ДАТА ЗАЕЗДА	ДАТА ОТЪЕЗДА
<input type="checkbox"/>	petrov (Петров Пётр)	Long Description Hotel	3000	Dec. 12, 2017	Dec. 15, 2017
<input type="checkbox"/>	petrov (Петров Пётр)	Long Description Hotel	5000	Dec. 1, 2017	Dec. 27, 2017
<input type="checkbox"/>	petrov (Петров Пётр)	Измайлово Альфа	5000	Nov. 11, 2017	Nov. 12, 2017
<input type="checkbox"/>	petrov (Петров Пётр)	Измайлово Альфа	1000	Nov. 6, 2017	Nov. 7, 2017
<input type="checkbox"/>	ivanov (Иванов Иван)	Long Description Hotel	13000	Nov. 1, 2017	Nov. 14, 2017
<input type="checkbox"/>	petrov (Петров Пётр)	Long Description Hotel	31000	Nov. 1, 2017	Dec. 1, 2017
<input type="checkbox"/>	petrov (Петров Пётр)	Измайлово Альфа	5000	Oct. 1, 2017	Oct. 12, 2017
<input type="checkbox"/>	petrov (Петров Пётр)	Измайлово Альфа	5000	Aug. 1, 2017	Aug. 11, 2017
<input type="checkbox"/>	petrov (Петров Пётр)	Luxelthe	5000	Aug. 1, 2017	Aug. 6, 2017
<input type="checkbox"/>	petrov (Петров Пётр)	Измайлово Альфа	5000	Jan. 13, 2017	Jan. 14, 2017
<input type="checkbox"/>	petrov (Петров Пётр)	Long Description Hotel	5000	Jan. 10, 2017	Jan. 13, 2017

Django administration

WELCOME: ADMIN VIEW SITE / CHANGE PASSWORD / LOG OUT

Home: Hw: Hotels

Press F11 to exit full screen

Select hotel to change

ADD HOTEL +

Action: ----- Go 0 of 7 selected

<input type="checkbox"/>	НАЗВАНИЕ	ВЛАДЕЛЕЦ	АДРЕС	ОПИСАНИЕ
<input type="checkbox"/>	Default Hotel	petrov	Imagination st. 42	Some default hotel for the start
<input type="checkbox"/>	Long Description Hotel	petrov	Planet Earth	Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nunc ultrices nibh arcu, nec tristique sem vehicula sit amet. Pellentesque bibendum, tortor nec mattis aliquet, arcu metus consequat odio, eu sollicitudin mauris enim a leo. Fusce eget lacus tempus,
<input type="checkbox"/>	Luxelthe	petrov	Paris, Montmartre	Отель Luxelthe расположен в самом центре парижского района Монмартр, всего в 80 м от станции метро Pigalle. К услугам гостей бесплатный Wi-Fi и современные номера с телевизором с плоским экраном.
<input type="checkbox"/>	Измайлово Альфа	ivanov	Москва, Измайлово	-
<input type="checkbox"/>	Измайлово Бета	ivanov	Москва, Измайлово	--
<input type="checkbox"/>	Отель	petrov	Адрес	Описание
<input type="checkbox"/>	Отель 1	petrov	Адрес	Описание

7 hotels