НАЦИОНАЛЬНЫЙ ИССЛЕДОВАТЕЛЬСКИЙ УНИВЕРСИТЕТ ИТМО

Дисциплина: Основы веб-программирования

Отчет по лабораторной работе №1 Вариант 4

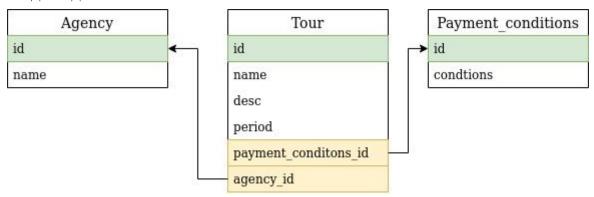
Создание сайта на Django

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Выполнение работы:

Модель данных:



Главная таблица это, разумеется, Tour. У одного агентства может быть много туров, а у одного тура, в свою очередь, может быть несколько условий для оплаты.

Реализация:

models.py:

```
# Create your models here.
class Agency(models.Model):
    name = models.CharField(max length=50)
    def __str__(self):
    return "{}".format(self.name)
class PaymentCondition(models.Model):
    CONDITIONS LIST = [
        ('1', '100% before the trip'),
('2', '50% before the trip, 50% after'),
('3', '70% before the trip, 30% after'),
        ('4', '10% off'),
('5', '90% before the trip, 10% after'),
('6', '60% before the trip, 40% after')
    conditions = models.CharField(choices=CONDITIONS LIST, default='1', max length=1)
    def __str__(self):
         return "Payment conditions: {}".format(self.get conditions display())
class Tour(models.Model):
    name = models.CharField(max length=50)
    desc = models.CharField(max_length=1000)
    start_date = models.DateField()
    end date = models.DateField()
    payment_conditions = models.ForeignKey(PaymentCondition, on delete=models.CASCADE)
    agency = models.ForeignKey(Agency, on_delete=models.CASCADE)
    def str (self):
         return "{}: {}, {} - {}".format(self.agency, self.name, self.start date, self.end date)
class TourComment(models.Model):
    COMMENT_TYPES = [
        ('1', 'Tour content question'),
('2', 'Payment question'),
('3', 'Review')
    tour = models.ForeignKey(Tour, on delete=models.CASCADE)
    comment_text = models.CharField(max_length=1000)
    question_type = models.CharField(choices=COMMENT_TYPES, default='1', max length=1)
    author = models.ForeignKey(User, on delete=models.CASCADE)
```

Сразу из моделей я стараюсь возвращать всю основную информацию, чтобы минимально делать это в шаблонах и сразу быстро ориентироваться в базе данных.

forms.py:

```
from django import forms
from .models import TourComment
from django.contrib.auth.models import User
class CommentForm(forms.ModelForm):
    class Meta:
       model = TourComment
       fields = [
           "question_type",
           "comment text"
class UserForm(forms.ModelForm):
    password = forms.CharField(widget=forms.PasswordInput())
    class Meta():
       model = User
       fields = ('email', 'first name', 'last_name', 'username', 'password')
views.py:
from django.shortcuts import render
from django.http import Http404, HttpResponseRedirect, HttpResponse
from django.views.generic.list import ListView
from django.contrib.auth import authenticate, login
from django.contrib.auth.decorators import login required
from .models import *
from .forms import *
# Create your views here.
class TourView(ListView):
    model = Tour
     def get(self, request):
         context = {}
         try:
             context["tours"] = Tour.objects.all()
         except Tour.DoesNotExist:
             raise Http404("Tour does not exist")
         return render(request, 'tours.html', context)
```

```
@login required
def about tour(request, tour id):
       tour = Tour.objects.get(pk=tour id)
    except Tour.DoesNotExist:
      raise Http404("Tour does not exist")
    try:
       comments = TourComment.objects.filter(tour=tour id).all()
    except TourComment.DoesNotExist:
       print("There are no comments")
    if request.POST.get('user_id'):
       user id = int(request.POST.get('user id'))
    form = CommentForm(request.POST)
    if form.is valid():
        tour form = form.save(commit=False)
        tour form.post = form
        tour_form.author_id = user_id
tour_form.tour_id = tour_id
        tour form.save()
        return HttpResponseRedirect('/tours/{}/'.format(tour_id))
    return render(request, 'tour.html', {'tour': tour, 'comments': comments, 'form': form})
```

Запретила доступ к странице тура без авторизации.

```
def register(request):
    registered = False
    if request.method == 'POST':
        register user form = UserForm(data=request.POST)
        if register_user_form.is_valid():
            user = register user form.save()
            user.set password(user.password)
            user.save()
            registered = True
            print(register_user_form.errors)
    else:
        register_user_form = UserForm()
    return render(request, 'reg.html', {'register_user_form': register_user_form, 'registered': registered})
def auth(request):
    if request.method == 'POST':
        username = request.POST.get('username')
password = request.POST.get('password')
        user = authenticate(username=username, password=password)
            if user.is active:
                login(request, user)
                return HttpResponseRedirect('/tours/')
               return HttpResponse("Your account was inactive.")
            return HttpResponse("Incorrect pair login/password")
        return render(request, 'auth.html', {})
```

Стандартные views для регистрации и авторизации.

urls.py:

```
from django.contrib import admin
from django.urls import path, include
from .views import *

urlpatterns = [
    path('tours/', TourView.as_view()),
    path('tours/<int:tour_id>/', about_tour),
    path('accounts/login/', auth),
    path('accounts/register/', register)
]
```

Страница со всеми турами:

Tours:

Global Travel: Scandinavian weekends, 2019-12-02 - 2019-12-18 Show more information Global Travel: New Zealand lifestyle, 2020-02-11 - 2020-02-25 Show more information Global Travel: European tour, 2020-02-29 - 2020-03-10 Show more information Latin America Travel: Vamos vamos, 2020-04-18 - 2020-04-27 Show more information Latin America Travel: Maya secrets, 2020-04-18 - 2020-04-25 Show more information Latin America Travel: Patagonia Beauty, 2020-04-29 - 2020-05-18 Exotic Travel: Exploring India, 2021-04-18 - 2021-05-18 Show more information Exotic Travel: African Safari, 2020-03-18 - 2020-03-25 Show more information Exotic Travel: Taste of Asia, 2019-04-18 - 2019-04-23 Show more information

До двоеточия идёт название турфирмы, а после название самого тура, а завершает это всё даты начала и конца.

Tour:

Global Travel: Scandinavian weekends, 2019-12-02 - 2019-12-18

Tour description:

Spend a holiday in Sweden, Finland and Norway and learn how locals live

Question type: Tour content question

What cities will we go to?

Authored by: maria

Add new comment:

Question type:	Tour content question ✓
• This field i	s required.
Comment text:	

Так выглядит страница, где выводится более подробная информация по туру и комментарии к нему.

Sorry! You should Register or Login before adding your own comment.
Так будет выглядеть страница без авторизации.
Страница регистрации:
Email address:
First name:
Last name:
Username: Required. 150 characters or fewer. Letters, digits and @/./+/-/_ only.
Password:
Register
После регистрации мы получаем такое сообщение на экране:
Login for getting full access for this site.
Страница для авторизации:

Username:	
JohnDoe	
Password:	
••••	
Login Don't have acco	ount vet? Register now

Добавила комментарий от нового пользователя:

Tour:

Global Travel: Scandinavian weekends, 2019-12-02 - 2019-12-18
Tour description: Spend a holiday in Sweden, Finland and Norway and learn how locals live
Question type: Tour content question
What cities will we go to?
Authored by: maria
Question type: Payment question
How many it'll costs for 2 persons?
Authored by: JohnDoe
Add new comment:
This field is required.
Question type: Tour content question ▼
This field is required.
Comment text:

Add comment