nsd_weekend_devweb03

python shell

```
(weekend1) [root@room8pc16 mysite]# python manage.py shell
>>> from polls.models import Question, Choice
# django为每一个模型都创建了名为objects的管理器,对模型的CRUD操作都可以通过这个管理器实现
# 创建问题方法一:实例化
>>> q1 = Question(question_text='你买到放假回家的票了吗?', pub_date='2019-09-01')
>>> q1.save()
# 创建问题方法二:通过objects管理器
>>> q2 = Question.objects.create(question_text='中秋节买月饼吗?', pub_date='2019-8-30')
# 创建选项方法一:实例化
>>> c1 = Choice(choice_text='买到了', question=q1)
>>> c1.save()
# 创建选项方法二:通过objects管理器
>>> c2 = Choice.objects.create(choice_text='没买到', question=q1)
# 问题Question和选项Choice有一对多的关系,一个问题可以有很多选项。选项的类名是Choice,那么问题的实例就
有一个名为choice_set的管理器,可以通过问题来创建选项。
# 方法三:通过问题实例的choice set管理器创建
>>> c3 = q1.choice_set.create(choice_text='不用买票')
# 修改,只要将实例属性重新赋值
>>> q2.question_text = '中秋节买什么?'
>>> q2.save()
# 删除,直接调用实例方法
>>> q2.delete()
# 查询,get方法要求必须查到一个实例,0或多都会出错
>>> q1 = Question.objects.get(id=1)
>>> q1
<Question: 你期待的工资是多少?>
# 查询, filter方法返回由0到多个实例构成查询集
>>> qset1 = Question.objects.filter(id__lt=10)
>>> qset1
>>> qset1[0]
# 查询条件,django用双下划线来表示属性和方法,而不是句点
>>> Question.objects.filter(id__lte=5) # 小于等于
>>> Question.objects.filter(id__gt=5) # 大于5
>>> Question.objects.filter(id__exact=1) # id=1是它的简写
>>> Question.objects.filter(pub_date__month=9)
```

```
>>> Question.objects.filter(question_text__startswith='你期待')
# 排序
>>> Question.objects.all() # 取出所有问题
>>> Question.objects.order_by('pub_date') # 升序排列
>>> Question.objects.order_by('-pub_date') # 降序排列
>>> Question.objects.filter(question_text__startswith='你期待').order_by('-pub_date')
```

制作投票首页

```
# 1. views.py
from django.shortcuts import render
from .models import Question
def index(request):
    questions = Question.objects.order_by('-pub_date')
    return render(request, 'index.html', {'questions': questions})
# 2. templates/index.html
<body>
<h1>投票首页</h1>
{% for question in questions %}
   >
       \{\{ \ forloop.counter \ \}\}.
       <a href="">
            {{ question.question_text }}
       </a>
       {{ question.pub_date }}
   {% endfor %}
</body>
# 3. 引入bootstrap到模板
# 将前一天的static目录拷贝到polls目录下
[root@room8pc16 weekend1]# cp -r devweb02/static/ mysite/polls/
# 修改index.html头部
{% load static %}
<!DOCTYPE html>
<html lang="en">
<head>
   <meta name="viewport" content="width=device-width, initial-scale=1">
   <link rel="stylesheet" href="{% static 'css/bootstrap.min.css' %}">
</head>
# 在index.html尾部添加
<body>
<script src="{% static 'js/jquery.min.js' %}"></script>
<script src="{% static 'js/bootstrap.min.js' %}"></script>
</body>
# 4. 修改index.html,完整如下:
```

```
{% load static %}
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <title>投票首页</title>
   <meta name="viewport" content="width=device-width, initial-scale=1">
   <link rel="stylesheet" href="{% static 'css/bootstrap.min.css' %}">
</head>
<body>
<div class="container">
   <div id="linux-carousel" class="carousel slide">
       class="carousel-indicators">
          </01>
       <div class="carousel-inner">
          <div class="item active">
             <a href="http://www.sogou.com" target="_blank">
                 <img src="{% static 'imgs/first.jpg' %}">
             </a>
          </div>
          <div class="item">
             <img src="{% static 'imgs/second.jpg' %}">
          </div>
          <div class="item">
             <img src="{% static 'imgs/third.jpg' %}">
      </div>
      <a href="#linux-carousel" data-slide="prev" class="carousel-control left">
          <span class="glyphicon glyphicon-chevron-left"></span>
      </a>
      <a href="#linux-carousel" data-slide="next" class="carousel-control right">
          <span class="glyphicon glyphicon-chevron-right"></span>
      </a>
   </div>
   <h1 class="text-center text-warning">投票首页</h1>
   <div class="h4" style="margin-top: 20px">
       {% for question in questions %}
          >
             {{ forloop.counter }}.
             <a href="{% url 'detail' question.id %}" target="_blank">
                 {{ question.question_text }}
             </a>
             {{ question.pub_date }}
          {% endfor %}
   <div class="text-center h4" style="margin-top: 50px">
      达内云计算学院 <a href="">weekend1</a>
   </div>
</div>
```

模板继承

```
# 1. 拷贝index.html为base.html
# 2. 在base.html中,把个性化内容移除,用block占位
# base.html
{% load static %}
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <title>{% block title %}{% endblock %}</title>
   <meta name="viewport" content="width=device-width, initial-scale=1">
   <link rel="stylesheet" href="{% static 'css/bootstrap.min.css' %}">
</head>
<body>
<div class="container">
   <div id="linux-carousel" class="carousel slide">
       class="carousel-indicators">
          data-target="#linux-carousel" data-slide-to="2">
       </01>
       <div class="carousel-inner">
          <div class="item active">
              <a href="http://www.sogou.com" target="_blank">
                 <img src="{% static 'imgs/first.jpg' %}">
              </a>
          </div>
          <div class="item">
              <img src="{% static 'imgs/second.jpg' %}">
          </div>
          <div class="item">
              <img src="{% static 'imgs/third.jpg' %}">
          </div>
       <a href="#linux-carousel" data-slide="prev" class="carousel-control left">
          <span class="glyphicon glyphicon-chevron-left"></span>
       </a>
       <a href="#linux-carousel" data-slide="next" class="carousel-control right">
          <span class="glyphicon glyphicon-chevron-right"></span>
       </a>
```

```
</div>
   {% block content %}{% endblock %}
   <div class="text-center h4" style="margin-top: 50px">
       达内云计算学院 <a href="">weekend1</a>
   </div>
</div>
<script src="{% static 'js/jquery.min.js' %}"></script>
<script src="{% static 'js/bootstrap.min.js' %}"></script>
<script type="text/javascript">
   $('#linux-carousel').carousel({
       interval: 3000
   });
</script>
</body>
</html>
# 3. 修改index.html,把共性内容删除,个性内容发到相应的block中
{% extends 'base.html' %}
{% load static %}
{% block title %}投票首页{% endblock %}
{% block content %}
   <h1 class="text-center text-warning">投票首页</h1>
   <div class="h4" style="margin-top: 20px">
       {% for question in questions %}
           >
               {{ forloop.counter }}.
               <a href="{% url 'detail' question.id %}" target="_blank">
                   {{ question.question_text }}
               {{ question.pub_date }}
           {% endfor %}
   </div>
{% endblock %}
```

编写问题详情页

```
<h3>{{ question.question_text }}</h3>
   <div class="h4">
        <form action="" method="post">
            {% csrf_token %}
            {% for choice in question.choice_set.all %}
                <div class="radio">
                    <label>
                        <input type="radio" name="choice_id" value="{{ choice.id }}">
                        {{ choice.choice_text }}
                    </label>
                </div>
            {% endfor %}
            <div class="form-group">
                <input class="btn btn-primary" type="submit" value="提 交">
            </div>
        </form>
   </div>
{% endblock %}
```

实现投票功能

- 投票功能,就是修改数据库中表的votes字段
- 修改数据库是通过执行函数实现的
- 执行函数是通过访问URL实现的

```
# 1. 编写投票功能url
# urls.py
urlpatterns = [
   url(r'^(\d+)/vote/$', views.vote, name='vote'),
]
# 2. 修改detail.html,指定表单提交给vote
       <form action="{% url 'vote' question.id %}" method="post">
# 3. 编写vote函数
# views.py
from django.shortcuts import render, redirect
def vote(request, question_id):
   question = Question.objects.get(id=question_id)
   choice_id = request.POST.get('choice_id')
   # 通过问题取出相应的选项实例
   choice = question.choice_set.get(id=choice_id)
   choice.votes += 1
   choice.save()
   # 重定向到结果页,而不是用render。render不会改变浏览器的URL。redirect重定向,将改变url
   return redirect('result', question_id)
```

实现投票结果页

```
# 1. views.py
def result(request, question_id):
   question = Question.objects.get(id=question_id)
   return render(request, 'result.html', {'question': question})
# 2. result.html
{% extends 'base.html' %}
{% load static %}
{% block title %}投票结果页{% endblock %}
{% block content %}
   <h1 class="text-center text-warning">
      {{ question.id }}号问题投票结果页
   </h1>
   <thead class="h3 bg-primary">
         {{ question.question_text }}
         </thead>
      {% for choice in question.choice_set.all %}
         {{ choice.choice_text }}
             {{ choice.votes }}
      {% endfor %}
   {% endblock %}
```