LAB:10

Student Task

Create a small app containing all concept which we discuss in lab 9 & 10

```python
from django.http import HttpResponse, HttpResponseRedirect
from django.template import loader
from django.shortcuts import get_object_or_404, render
from django.views import generic
from django.utils import timezone
from django.urls import reverse
from .models import Choice,Question

def index(request):
    latest_question_ist = Question.objects.order_by('-pub_date')[:5]
    template = loader.get_template('polls/index.html')
    context = {
        'latest_question_list': latest_question_list,
    }
    return HttpResponse(template.render(context, request))

    #output = ', '.join([q.question_text for q in latest_question_list])
    #return HttpResponse(output)
    #return HttpResponse("Hello, world. You're at the polls index.")



class IndexView(generic.ListView):
    template_name = 'polls/index.html'
    context_object_name = 'latest_question_list'

    def get_queryset(self):
        return Question.objects.filter(pub_date__lte=timezone.now()).order_by('-pub_date')[:5]
```

Figure 1 Views.py

```python
class DetailView(generic.DetailView):
    model = Question
    template_name = 'polls/detail.html'
    def get_queryset(self):
        """
        Excludes any questions that aren't published yet.
        """
        return Question.objects.filter(pub_date__lte=timezone.now())


class ResultsView(generic.DetailView):
    model = Question
    template_name = 'polls/results.html'



def detail(request, question_id):
    try:
        question = Question.objects.get(pk=question_id)
    except Question.DoesNotExist:
        raise Http404("Question does not exist")
    return render(request, 'polls/detail.html', {'question': question})

    #return HttpResponse("You are looking at question %s." % question_id)

def results(request, question_id):
    question = get_object_or_404(Question, pk=question_id)
    return render(request, 'polls/results.html', {'question': question})
```

Figure 2Views.py

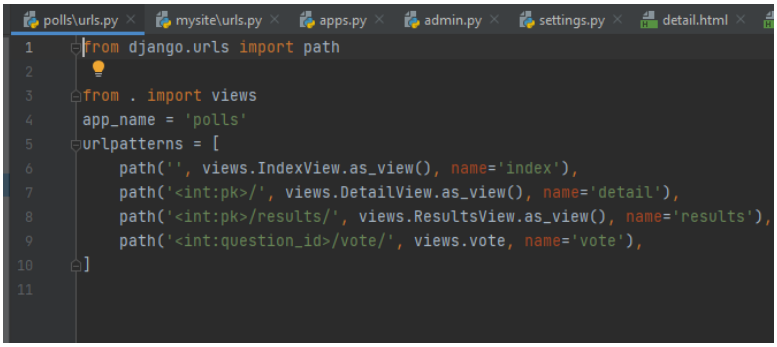


Figure 3polls/urls.py

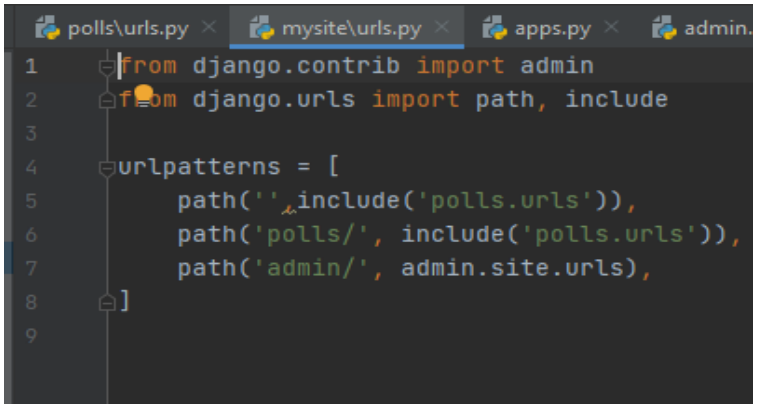


Figure 4 Urls.py (mysite)

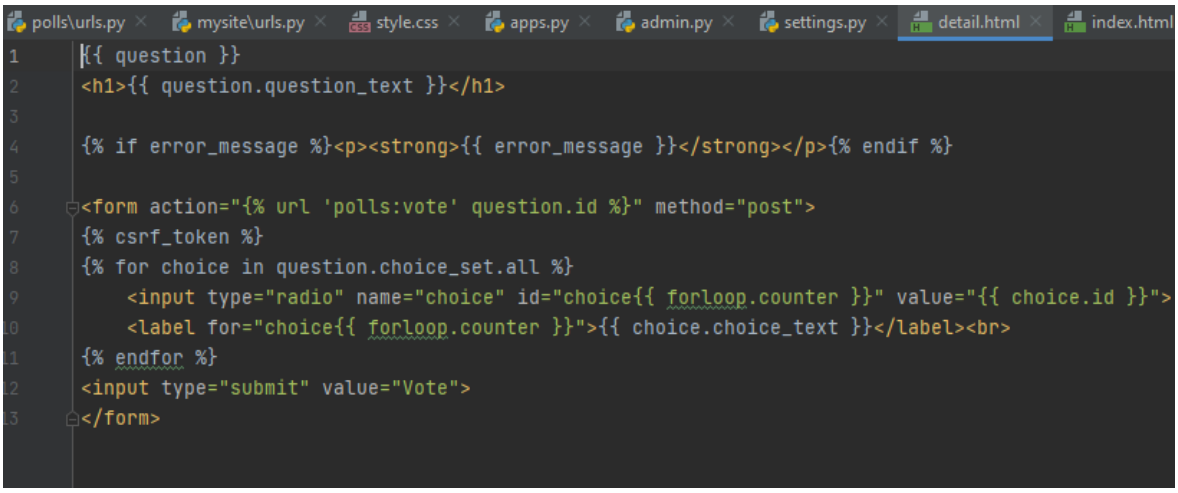


Figure 5 Details.html

```python
from django.db import models
import datetime
from django.utils import timezone

class Question(models.Model):
    question_text = models.CharField(max_length=200)
    pub_date = models.DateTimeField('date published')

    def __str__(self):
        return self.question_text

    def was_published_recently(self):
        now = timezone.now()
        return now - datetime.timedelta(days=1) <= self.pub_date <= now
        #return self.pub_date >= timezone.now() - datetime.timedelta(days=1)
    was_published_recently.admin_order_field = 'pub_date'
    was_published_recently.boolean = True
    was_published_recently.short_description = 'Published recently?'

class Choice(models.Model):
    question = models.ForeignKey(Question, on_delete=models.CASCADE)
    choice_text = models.CharField(max_length=200)
    votes = models.IntegerField(default=0)
    def __str__(self):
        return self.choice_text
```

Figure 6 Models.py

```
{% load static %}

<link rel="stylesheet" type="text/css" href="{% static 'polls/style.css' %}">
{% if latest_question_list %}
    <ul>
    {% for question in latest_question_list %}
        <li><a href="{% url 'polls:detail' question.id %}">{{ question.question_text }}</a></li>
    {% endfor %}
    </ul>
{% else %}
    <p>No polls are available.</p>
{% endif %}
```

Figure 7 Index.html

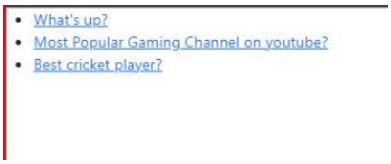
```
<h1>{{ question.question_text }}</h1>

<ul>
{% for choice in question.choice_set.all %}
    <li>{{ choice.choice_text }} -- {{ choice.votes }} vote{{ choice.votes|pluralize }}</li>
{% endfor %}
</ul>

<a href="{% url 'polls:detail' question.id %}">Vote again?</a>
```

Figure 8 Results.html

Output:


What's up?
Not much
The Sky
Just Hacking Again!
Vote


What's up?
Not much -- 1 vote
The Sky -- 2 votes
Just Hacking Again! -- 6 votes
Vote again?


What's up?
Most Popular Gaming Channel on youtube?
Best cricket player?


Best Cricket player?
Virat Kohli
Babar Azam
Shanne Watson
Vote


Best Cricket player?
Virat Kohli -- 2 votes
Babar Azam -- 11 votes
Shanne Watson -- 1 vote
Vote again?