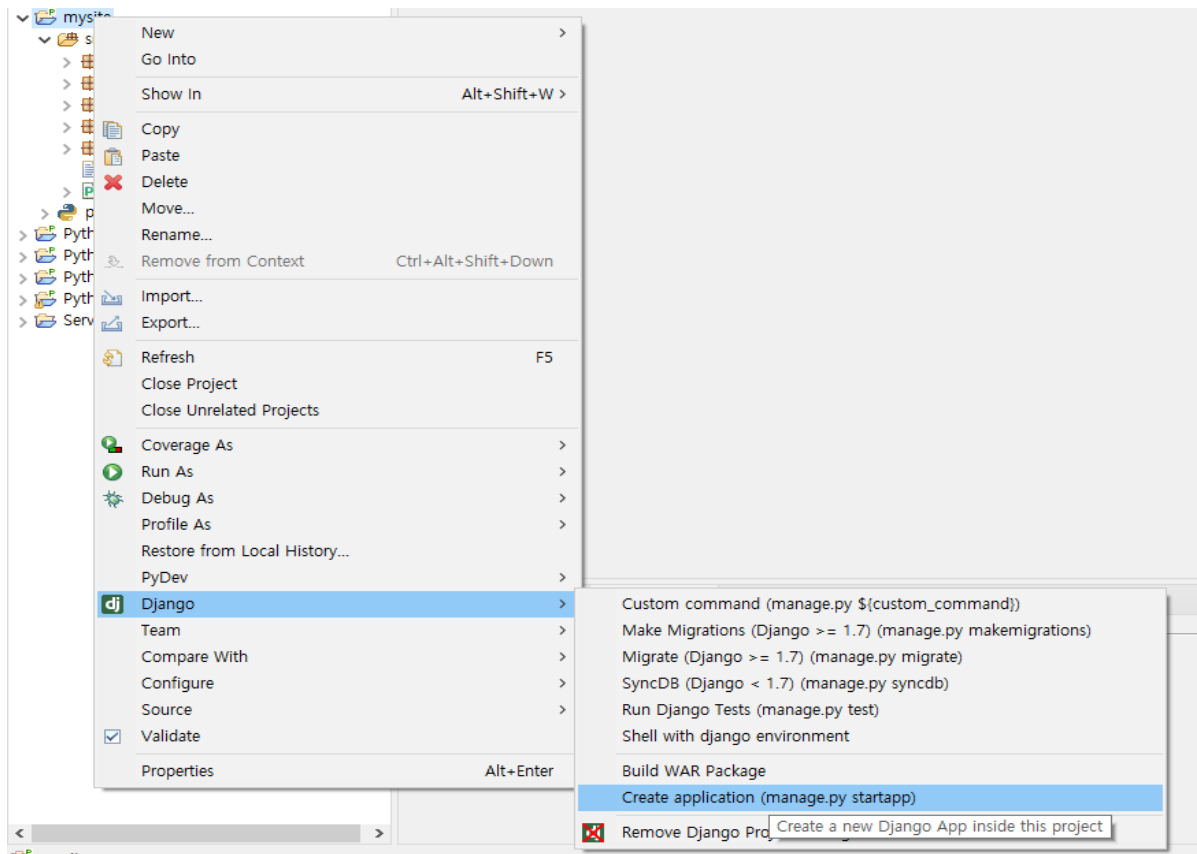
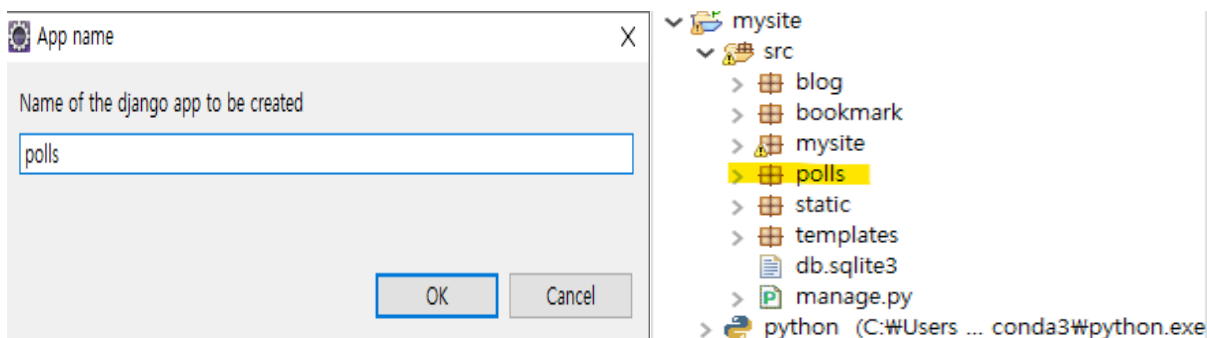


1. 앱 만들기 Create application~



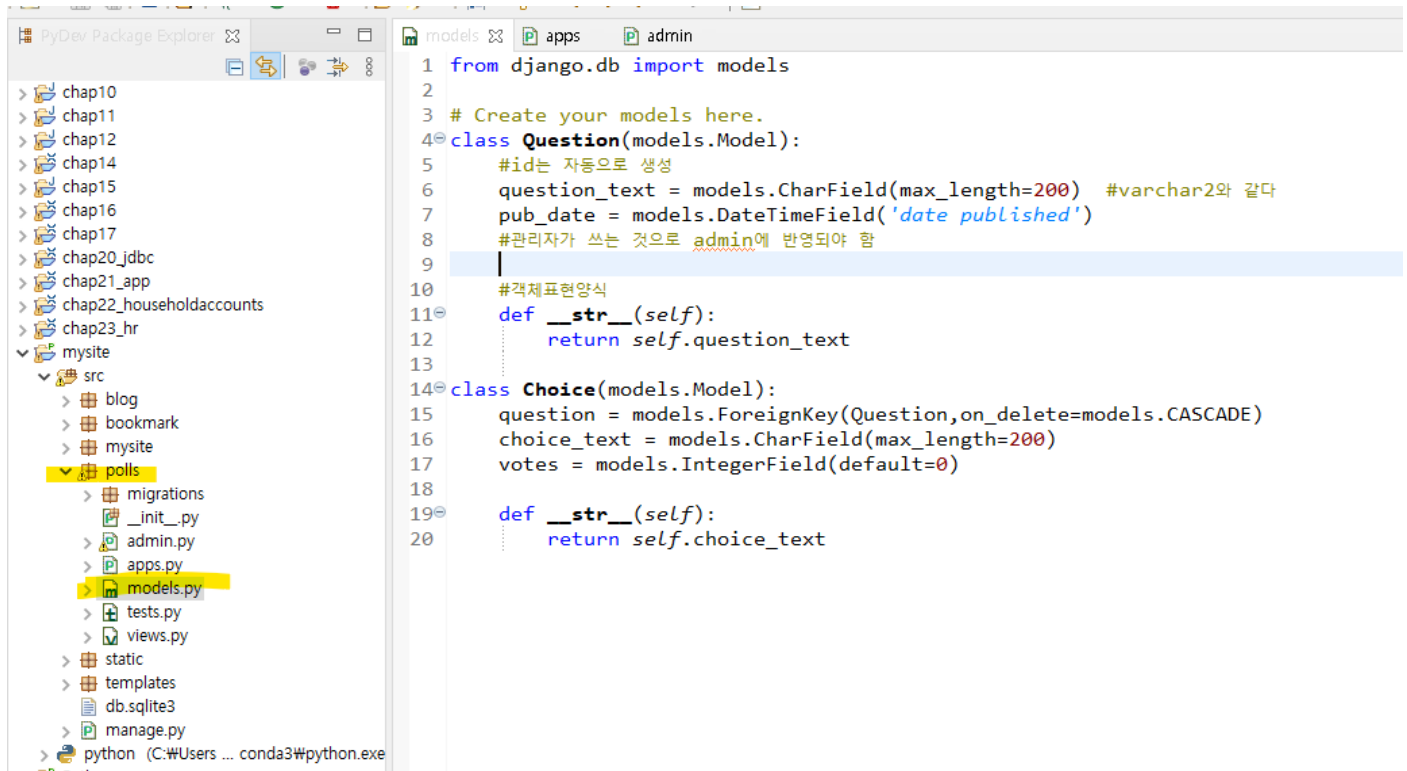
- App name에 polls라고 이름을 주고 새로고침하면 polls가 생긴다



2. 앱을 만들었으니 mysite – settings.py에 추가해주기

```
21 INSTALLED_APPS = [  
22     'django.contrib.admin',  
23     'django.contrib.auth',  
24     'django.contrib.contenttypes',  
25     'django.contrib.sessions',  
26     'django.contrib.messages',  
27     'django.contrib.staticfiles',  
28     'bookmark.apps.BookmarkConfig',  
29     'blog.apps.BlogConfig',  
30     'taggit.apps.TaggitAppConfig',  
31     'taggit_templatetags2',  
32     'polls.apps.PollsConfig',  
33 ]
```

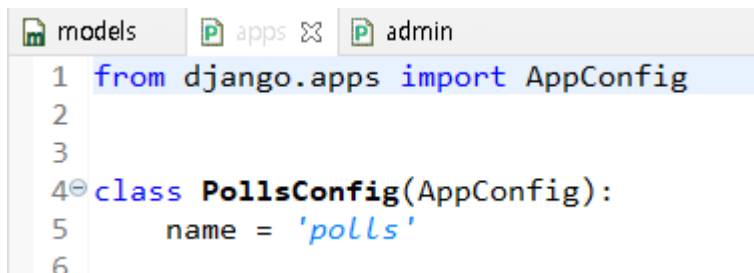
3. polls의 models.py 코딩하기



The screenshot shows the PyDev Package Explorer on the left with the 'polls' app selected under the 'mysite' project. The Code Editor on the right displays the content of 'models.py'.

```
1 from django.db import models
2
3 # Create your models here.
4 class Question(models.Model):
5     #id는 자동으로 생성
6     question_text = models.CharField(max_length=200) #varchar2와 같다
7     pub_date = models.DateTimeField('date published')
8     #관리자가 쓰는 것으로 admin에 반영되야 함
9
10    #객체표현양식
11    def __str__(self):
12        return self.question_text
13
14 class Choice(models.Model):
15     question = models.ForeignKey(Question, on_delete=models.CASCADE)
16     choice_text = models.CharField(max_length=200)
17     votes = models.IntegerField(default=0)
18
19    def __str__(self):
20        return self.choice_text
```

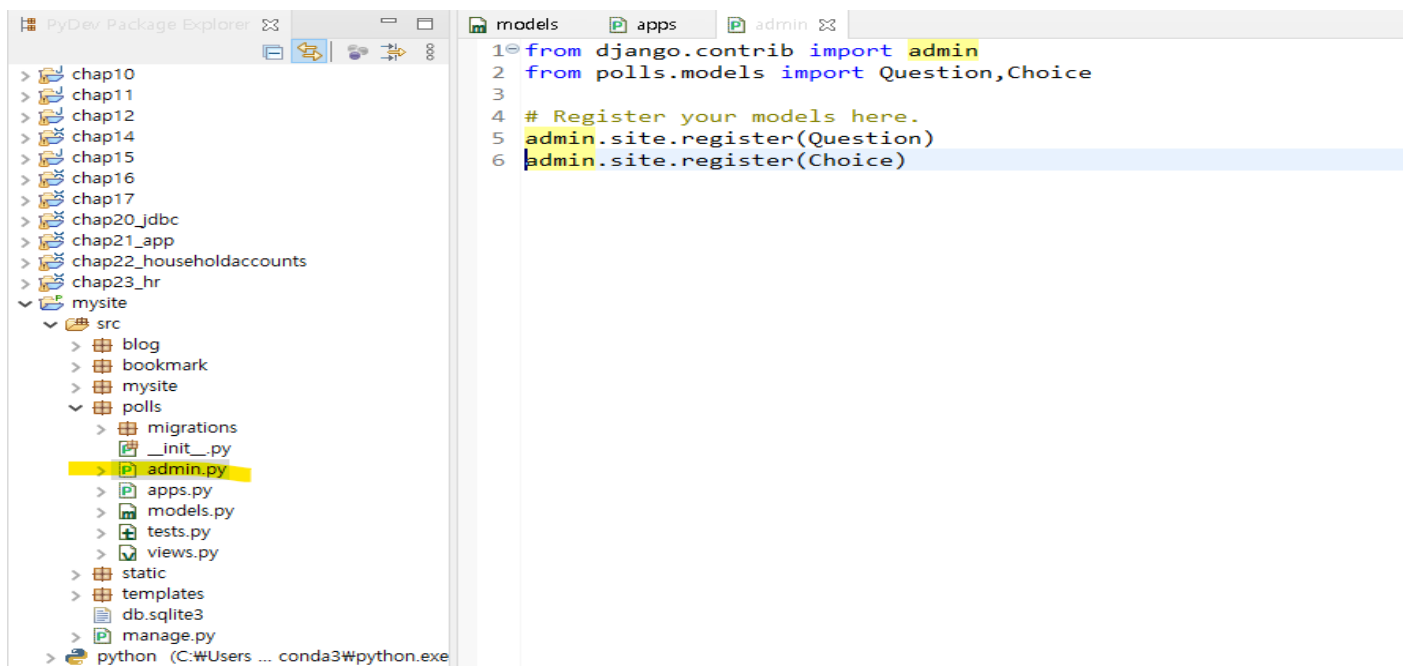
- polls의 apps.py에 다음과 같이 생김



The screenshot shows the Code Editor with the 'apps.py' file open, displaying the 'PollsConfig' class.

```
1 from django.apps import AppConfig
2
3
4 class PollsConfig(AppConfig):
5     name = 'polls'
6
```

4. polls의 admin.py에 코딩하기



The screenshot shows the PyDev Package Explorer on the left with the 'polls' app selected. The Code Editor on the right displays the content of 'admin.py'.

```
1 from django.contrib import admin
2 from polls.models import Question, Choice
3
4 # Register your models here.
5 admin.site.register(Question)
6 admin.site.register(Choice)
```

5. mysite – urls.py에 추가

```
models apps admin urls ✕
1 from django.contrib import admin
2 from django.urls import path,include
3 from bookmark import views
4 from mysite.views import HomeView
5
6 urlpatterns = [
7     # path('',views.start), #views의 start 함수를 실행하라
8     path('admin/', admin.site.urls),
9     path('',HomeView.as_view(), name='home'), #아무것도 없다면 홈 보여주도록
10    path('bookmark/',include('bookmark.urls')),
11    path('blog/',include('blog.urls')),
12    path('polls/',include('polls.urls')),
13 ]
14
15 #리스트 속에 하나의 아이템으로 경로를 주므로 콤마 필요
16
```

6. polls에 urls.py을 만들고 코딩해주기

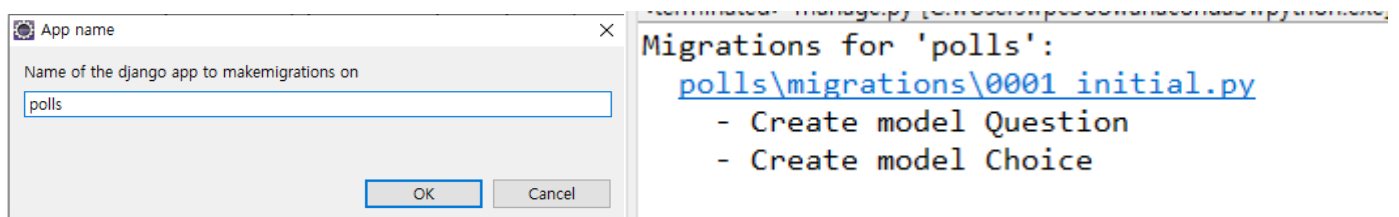
```
models apps admin urls (polls) ✕ views
1 from django.urls import path
2 from polls import views
3
4 app_name = 'polls'
5 urlpatterns = [
6     path('',views.index,name='index'), # /polls/ 하고 들어올 때 수행
7     path('<int:question_id>/',views.detail,name='detail'), #/polls/5/
8     path('<int:question_id>/results/',views.results,name='results'), #/polls/5/results/
9     path('<int:question_id>/vote/',views.vote,name='vote'), #/polls/5/vote/
10 ]
```

7. polls – views.py 코딩 - 다음 카페, 설문조사(polls)제어 코딩(viewer) 참조

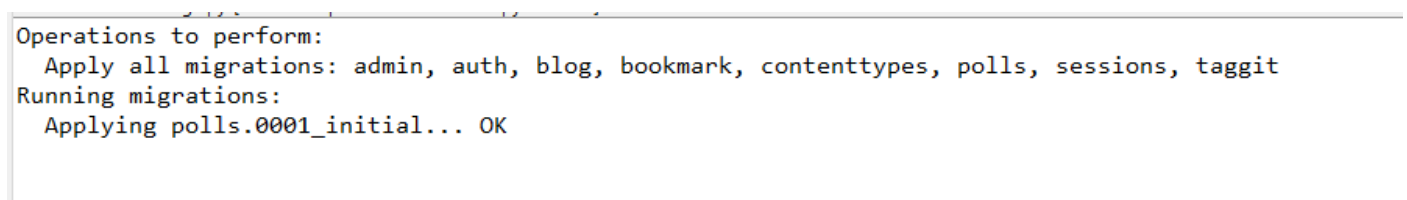
```
models apps admin urls (polls) views
1 from django.shortcuts import get_object_or_404, render
2 from django.http import HttpResponseRedirect
3 from django.urls import reverse
4 from polls.models import Choice, Question
5
6
7 def index(request):
8     latest_question_list = Question.objects.all().order_by('-pub_date')[:5]
9     context = {'latest_question_list': latest_question_list}
10    return render(request, 'polls/index.html', context)
11
12 def detail(request, question_id):
13     question = get_object_or_404(Question, pk=question_id)
14     return render(request, 'polls/detail.html', {'question': question})
15
16 def results(request, question_id):
17     question = get_object_or_404(Question, pk=question_id)
18     return render(request, 'polls/results.html', {'question': question})
19
20 def vote(request, question_id):
21     question = get_object_or_404(Question, pk=question_id)
22     try:
23         selected_choice = question.choice_set.get(pk=request.POST['choice'])
24     except (KeyError, Choice.DoesNotExist):
25         # Redisplay the question voting form.
26         return render(request, 'polls/detail.html', {
27             'question': question,
28             'error_message': "You didn't select a choice.",
29         })
30     else:
31         selected_choice.votes += 1
32         selected_choice.save()
33     # Always return an HttpResponseRedirect after successfully dealing
34     # with POST data. This prevents data from being posted twice if a
35     # user hits the Back button.
36     return HttpResponseRedirect(reverse('polls:results', args=(question.id,)))
```

8. 데이터베이스 생성 및 이주

① 마이그레이션



② 마이그레이트



서버 돌려서 question 넣어보기

비전 NCS_IT(보충지도와 피드백) x Site administration | Django site x +

127.0.0.1:8000/admin/

Django administration

Site administration

AUTHENTICATION AND AUTHORIZATION

Groups [+ Add](#) [Change](#)

Users [+ Add](#) [Change](#)

BLOG

Posts [+ Add](#) [Change](#)

BOOKMARK

Bookmarks [+ Add](#) [Change](#)

POLLS

Choices [+ Add](#) [Change](#)

Questions [+ Add](#) [Change](#)

TAGGIT

Tags [+ Add](#) [Change](#)

Recent actions

My actions

- + 블랙맘바 Post
- + 닝닝 Post
- + 지젤 Post
- + 윈터 Post
- + 카리나 Post
- + 에스파 Post
- + 다 지워져 부렸다 Post

127.0.0.1:8000/admin/polls/question/

Django administration

WELCOME, MYSITE. [VIEW SITE](#) / [CHANGE PASSWORD](#) / [LOG OUT](#)

Home / Polls / Questions

AUTHENTICATION AND AUTHORIZATION

Groups [+ Add](#)

Users [+ Add](#)

BLOG

Posts [+ Add](#)

BOOKMARK

Bookmarks [+ Add](#)

POLLS

Choices [+ Add](#)

Questions [+ Add](#)

TAGGIT

Tags [+ Add](#)

The question "코로나 정국이 얼마나 길 것만지 귀하의 의견은?" was added successfully.

Select question to change

Action: 0 of 1 selected

☐ QUESTION

☐ 코로나 정국이 얼마나 길 것만지 귀하의 의견은?

1 question

[ADD QUESTION +](#)

← → 127.0.0.1:8000/admin/polls/choice/add/ ☆ 👤 ⋮

Django administration WELCOME, **MY SITE** VIEW SITE / CHANGE PASSWORD / LOG OUT

Home Polls Choices Add choice

AUTHENTICATION AND AUTHORIZATION

Groups [+ Add](#)

Users [+ Add](#)

BLOG

Posts [+ Add](#)

BOOKMARK

Bookmarks [+ Add](#)

POLLS

Choices [+ Add](#)

Questions [+ Add](#)

TAGGIT

Tags [+ Add](#)

Add choice

Question: 코로나 정국이 얼마나 길 것인지 귀하의 의견은? ✎ +

Choice text:

Votes:

[Save and add another](#) [Save and continue editing](#) [SAVE](#)

← → 127.0.0.1:8000/admin/polls/choice/ ☆ 👤 ⋮

Django administration WELCOME, **MY SITE** VIEW SITE / CHANGE PASSWORD / LOG OUT

Home Polls Choices

AUTHENTICATION AND AUTHORIZATION

Groups [+ Add](#)

Users [+ Add](#)

BLOG

Posts [+ Add](#)

BOOKMARK

Bookmarks [+ Add](#)

POLLS

Choices [+ Add](#)

Questions [+ Add](#)

TAGGIT

Tags [+ Add](#)

Select choice to change [ADD CHOICE +](#)

Action: Go 0 of 4 selected

- ☐ CHOICE
- ☐ 4. 6개월 이내로 증식 될 것이다.
- ☐ 3. 일상화될 것이다.
- ☐ 2. 2년갈 것이다.
- ☐ 1. 3년 갈 것이다

4 choices

polls에 템플릿 만들고 폴스 폴더 만들기

```

v polls
> migrations
v templates
  polls
  
```

polls 폴더에 html 파일 만들기

- index.html