

SPARCS Django Seminar

- Part 2

SPARCS 15 zealot & SPARCS 15 hood

꿀팁

Part 2

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```
(env) ~sTunes$ cd sTunes
(env) ~sTunes/sTunes$ vi urls.py
(env) ~sTunes/sTunes$ cd ..
(env) ~sTunes$ cd helloworld
(env) ~sTunes/helloworld$ vi views.py
(env) ~sTunes/helloworld$ cd ..
(env) ~sTunes$ Python manage.py runserver
0.0.0.0:PORT_NUMBER
```

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```
(env) ~sTunes$ cd sTunes
(env) ~sTunes/sTunes$ vi urls.py
(env) ~sTunes/sTunes$ cd ..
(env) ~sTunes$ cd helloworld
(env) ~sTunes/helloworld$ vi views.py
(env) ~sTunes/helloworld$ cd ..
(env) ~sTunes$ Python manage.py runserver
0.0.0.0:PORT_NUMBER

(env) ~sTunes$ cd sTunes/urls.py
(env) ~sTunes$ cd helloworld/views.py
(env) ~sTunes$ Python manage.py runserver
0.0.0.0:PORT_NUMBER
```

```
(env) ~sTunes$ vi sTunes/urls.py
```

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```
(env) ~sTunes$ vi sTunes/urls.py
```

```
(env) ~sTunes$ vi s(탭)/u(탭)
```

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```
(env) ~sTunes$ cd sTunes
(env) ~sTunes/sTunes$ vi urls.py
(env) ~sTunes/sTunes$ cd ..
(env) ~sTunes$ Python manage.py runserver
0.0.0.0:PORT_NUMBER
Ctrl + C
(env) ~sTunes$ cd helloworld
(env) ~sTunes/helloworld$ vi views.py
(env) ~sTunes/helloworld$ cd ..
```

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```
(env) ~sTunes$ Python manage.py runserver  
0.0.0.0:PORT_NUMBER
```

```
(env) ~sTunes$ cd sTunes  
(env) ~sTunes/sTunes$ vi urls.py  
(env) ~sTunes/sTunes$ cd ..  
(env) ~sTunes$ cd helloworld  
(env) ~sTunes/helloworld$ vi views.py  
(env) ~sTunes/helloworld$ cd ..
```

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Models

```
~$ source env/bin/activate  
(env) ~$ cd sTunes
```

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```
~/sTunes/helloworld/models.py
```

```
5 # Create your models here.
```

```
+ 
```

```
+ 
```

```
+ 
```

```
+ class Artist(models.Model):
```

```
+     name = models.CharField(max_length = 20)
```

```
+     name_en = models.CharField(max_length = 20)
```

```
+     artist_type = models.CharField(max_length = 12)
```

```
+     debut = models.IntegerField()
```

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```
(env) ~/sTunes$ python manage.py check  
(env) ~/sTunes$ python manage.py makemigrations  
(env) ~/sTunes$ python manage.py migrate
```

```
# Do it every time when there is changes in models.py
```

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```
(env) ~/sTunes$ python manage.py shell

>>> from helloworld.models import Artist

>>> a1 = Artist(name="아이유", name_en="IU",
artist_type="솔로(여성)", debut=2008)
>>> a1.save()

>>> a2 = Artist(name="여자친구", name_en="GFRIEND",
artist_type="그룹(여성)", debut=2017)
>>> a2.save()

>>> artists = Artist.objects.all()
>>> len(artists)
```

```
>>> GF = artists[1]
>>> GF.name_en
u'GFRIEND'
>>> GF.debut
2017
>>> GF.debut = 2015
>>> GF.save()

>>> quit()                # To quit shell
```

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```
~/sTunes/helloworld/views.py
```

```
3  from django.http import HttpResponse
+  from helloworld.models import Artist
...
19 def artist(request, name)
20     if name == "IU"
...
35     ctx = {}
+     art = Artist.objects.get(name_en = name)
+     ctx = { "artist" : art }
36 return render(request, "artist.html", ctx)
```

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```
~/sTunes/templates/artist.html
```

```
...
```

```
4     <h2> {{ artist.name }} </h2>
```

```
5     <ul>
```

```
6         <li> 유형 : {{ artist.artist_type }} </li>
```

```
7         <li> 데뷔 : {{ artist.debut }} </li>
```

```
...
```

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Relation

```
~/sTunes/helloworld/models.py
```

```
13     debut = models.IntegerField()  
+     albums = models.ManyToManyField('Album')  
+  
+  
+  
+     class Album(models.Model):  
+         title = models.CharField(max_length = 30)
```

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```
(env) ~/sTunes$ python manage.py check
(env) ~/sTunes$ python manage.py makemigrations
(env) ~/sTunes$ python manage.py migrate

(env) ~/sTunes$ python manage.py shell
```

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```
>>> from helloworld.models import Artist, Album

>>> IU = Artist.objects.get(name_en="IU")
>>> IU.albums.create(title="Lost And Found")
>>> IU.albums.create(title="Real")
>>> IU.albums.create(title="스무 살의 봄")
>>> IU.albums.create(title="CHAT-SHIRE")

>>> a1 = Album(title="Season Of Glass")
>>> a2 = Album(title="Flower Bud")
>>> a3 = Album(title="SNOWFLAKE")
>>> a1.save()
>>> a2.save()
>>> a3.save()

>>> GF = Artist.objects.get(name_en="GFRIEND")
>>> GF.albums.add(a1, a2, a3)
```

```
>>> a14 = Album(title="Wow")
>>> a14.save()
>>> IU.albums.add(a14)
>>> GF.albums.add(a14)

>>> len(Album.objects.all())
8
>>> len(IU.albums.all())
5
>>> len(GF.albums.all())
4
>>> Artist.object.all()[0].albums.all()[3].title
u'CHAT-SHIRE'

>>> quit()
```

```
~/sTunes/templates/artist.html
```

```
...
```

```
12     {% for album in artist.albums.all %}
```

```
13         <li> {{ album.title }} </li>
```

```
14     {% endfor %}
```

```
...
```

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http://bit.sparcs.org:PORT_NUMBER/artist/IU

< > [] W bit.sparcs.org [] [] [] +

아이유

- 유형 : 솔로(여성)
- 데뷔 : 2008

출시 앨범

- Lost And Found
- Real
- 스무 살의 봄
- CHAT-SHIRE
- Wow

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Comment

```
~/sTunes/helloworld/models.py
```

```
19     title = models.CharField(max_length = 30)
+
+
+
+     class Comment(models.Model):
+         comment = models.CharField(max_length = 140)
+         artist = models.ForeignKey('Artist',
+ related_name='comments')
```

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```
~/sTunes/helloworld/views.py
```

```
4  From helloworld.models import Artist, Comment
...
20 def artist(request, name)
+     if request.method == "POST":
+         new_comment
21     art = Artist.objects.get(name_en = name)
```

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```
~/sTunes/templates/artist.html
```

```
15     </ul>
+     </br></br>
+     <ul>
+     <h4> 댓글 </h4>
+     {% for comment in artist.comments.all %}
+         <li> {{ comment.comment }} </li>
+     {% endfor %}
+     </ul>
+     <form method="POST">
+         {% csrf_token %}
+         <input type="text" name="comment"
placeholder="댓글">
+         <button type="submit"> 작성 </button>
+     </form>
16 </body>
```

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아이유

- 유형 : 솔로(여성)
- 데뷔 : 2008

출시 앨범

- Lost And Found
- Real
- 스무살의 봄
- CHAT-SHIRE
- Wow

댓글

- asdf
- 아이유 예쁘다
- ㅋㅋㅋㅋㅋㅋ

Search

```
~/sTunes/sTunes/urls.py
```

```
19 urlpatterns = [  
...  
24     url(r'^artists/([\w \w[\]\.]+)/$',  
helloworld_views.artist),  
+     url(r'^search/$', 'helloworld_views.main'),  
25 ]
```

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```
~/sTunes/helloworld/views.py
```

```
27     Return render(request, "artist.html", ctx)
+
+
+
+ def search(request):
+     if request.method == "POST":
+         keyword = request.POST["keyword"]
+         results = Artist.objects.filter(name__icontains = keyword)
+         ctx = { "results" : results }
+     else:
+         results = {}
+     return render(request, "search.html", ctx)
```

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```
+ <html>
+   <head> </head>
+   <body>
+     <form method="POST">
+       {% csrf_token %}
+       <input type="text" name="keyword" place
holder="검색">
+       <button type="submit"> 작성 </button>
+     </form>
+     {% if results %}
+       </br></br>
+       <h4> 가수 </h4>
+       <ul>
+         {% for result in results %}
+           <a href="/artist/{{ result.name_en }}"><li>
{{ result.name }} </li></a>
+         {% endfor %}
+       </ul>
+     {% endif %}
+   </body>
+ </html>
```

