

CS 683 Emerging Technologies
Fall Semester, 2006
Doc 11 Django RSS & Testing
Oct 3, 2006

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References

The syndication feed framework

<http://www.djangoproject.com/documentation/syndication/>

RSS

Really Simple Syndication

Rich Site Summary

XML format for distributing news headlines and Web content

http://www.jisc.ac.uk/index.cfm?name=fairsynthesis_glossary

Used to aggregate news, blogs, changes in web sites

Poll Example

Notify users when a poll has been posted

cs683/feeds.py

```
from django.contrib.syndication.feeds import Feed
from cs683.polls.models import Poll

class SitePollFeed(Feed):
    title = "CS 683 Polls"
    link = "/polls/"
    description = "Polls of interest to students in 683"

    def items(self):
        return Poll.objects.order_by('-pub_date')[:5]
```

cs683/urls.py

```
from django.conf.urls.defaults import *
from cs683.feeds import SitePollFeed

feeds = {
    'latest': SitePollFeed,
}

urlpatterns = patterns("",
    # some stuff removed
    (r'^feeds/(?P<url>.*)/$', 'django.contrib.syndication.views.feed',
     {'feed_dict': feeds}),
)
```

cs683/polls/models.py

```
from django.db import models
```

```
class Poll(models.Model):
```

```
    question = models.CharField(maxlength=200)
```

```
    pub_date = models.DateTimeField('date published')
```

```
    def __str__(self):
```

```
        return self.question
```

```
    def get_absolute_url(self):
```

```
        return "/polls/%i/details.html" % self.id
```

```
class Admin:
```

```
    date_hierarchy = 'pub_date'
```

```
    list_display = ('question', 'pub_date', 'foo')
```

```
    list_filter = ('pub_date', )
```

```
class Meta:
```

```
    ordering = ['-pub_date']
```

```
    permissions = (
```

```
        ("can_view", "Can view poll list"),
```

```
        ("can_vote", "Can vote"),
```

```
        ("can_see_results", "Can see voting results"),
```

```
    )
```

Admin site

Django administration


Welcome, **whitney**. [Documentation](#) / [Change password](#) / [Log out](#)

[Home](#) > [Sites](#) > 127.0.0.1:8000

Change site

History

Domain name:	<input type="text" value="127.0.0.1:8000"/>
Display name:	<input type="text" value="CS 683"/>

 Delete

Save and add another

Save and continue editing

Save

feed://127.0.0.1:8000/feeds/latest/

CS 683 Polls

When will a new poll appear? Today, 11:02 AM

When will a new poll appear? [Read more...](#)

What's up doc? Yesterday, 06:20 PM

What's up doc? [Read more...](#)

Do you like Python? Yesterday, 06:20 PM

Do you like Python? [Read more...](#)

Do you like Django Reinhardt's music? Yesterday, 06:20 PM

Do you like Django Reinhardt's music? [Read more...](#)

Testing

How?