



How to add RSS Feed and Sitemap to Django project?

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This article is in continuation of Blog CMS Project in Django. Check this out here – [Building Blog CMS \(Content Management System\) with Django](#)

RSS (Really Simple Syndication) Feed

RSS (Really Simple Syndication) is a web feed that allows users and applications to access updates to websites in a standardized, computer-readable format. These feeds can, for example, allow a user to keep track of many different websites in a single news aggregator. Django comes with an library to create atom feed for our blog.

Creating views for RSS Feed –

Go to blog app directory and create a file feeds.py and paste the below code.

Python3

```
from django.contrib.syndication.views import Feed
from django.template.defaultfilters import truncatewords
from .models import posts
from django.urls import reverse
from django.utils.feedgenerator import Atom1Feed

class blogFeed(Feed):
    title = "geeksforgeeks"
    link = "/posts/"
    description = "RSS feed of GeeksForGeeks"

    def items(self):
        return posts.objects.filter(status = 1)

    def item_title(self, item):
        return item.title

    def item_description(self, item):
```

```

        return item.metades

    def item_link(self, item):
        return reverse('post_detail', args =[item.slug])

class atomFeed(Feed):
    feed_type = Atom1Feed

```

Create Routes for RSS Feed –

To route the RSS feed go to urls.py file of the app you are using for generating feed and add the route

Python3

```

# importing django routing libraries
from . import views

```

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```

urlpatterns = [
    ....
    # RSS route
    path("posts / feed", blogFeed(), name ="feed"),
    ....
]

```

Sample Feed



Sitemap protocol allows a webmaster to inform search engines about URLs on a website that are available for crawling. A Sitemap is an XML file that lists the URLs for a site. It allows webmasters to include additional information about each URL: when it was last updated, how often it changes. This allows search engines to crawl the site more efficiently and to find URLs that may be isolated from the rest of the site's content.

Django also comes with a sitemaps creator go to the blog app directory and add sitemaps to installed apps in settings file

```
INSTALLED_APPS = [
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
    'blog',
    # adding in installed apps
    'django.contrib.sitemaps',
]
```

Create Sitemap –

Create a file sitemaps.py and paste the below code.

Python3

```
from django.contrib.sitemaps import Sitemap
from .models import posts

# sitemap class
class blogSitemap(Sitemap):
    # change frequency and priority
    changefreq = "daily"
    priority = 1.0

    def items(self):
        return posts.objects.filter(status = 1)

    def lastmod(self, obj):
        return obj.updated_on
```

Add absolute URL to model –

Sitemap generated should have urls for our posts so we need to add a simple function to our model so that we sitemap library can generate posts urls

Python3

```
# add it in your model for which you want to generate sitemap
def get_absolute_url(self):
    from django.urls import reverse
    return reverse("post_detail", kwargs = {"slug": str(self.slug)})
```

Routing for sitemap –

Now to generate the sitemap url, Go to urls.py file of the and add the route

Python3

```
# adding sitemap libraries
from django.contrib.sitemaps.views import sitemap
from blog.sitemaps import blogSitemap

blogsitemap = {
    "blog": blogSitemap, }

urlpatterns = [
    ....
    # urls handling site maps
    path("sitemap.xml", sitemap, {"sitemaps": blogsitemap}, name="sitemap"),
    ....
]
```

Now you can see RSS feed and Sitemaps at assigned urls

Sample Sitemap

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
-<urlset>
-<url>
  <loc>http://127.0.0.1:8000/django/</loc>
  <lastmod>2020-10-29</lastmod>
  <changefreq>daily</changefreq>
  <priority>1.0</priority>
</url>
-<url>
  <loc>http://127.0.0.1:8000/lorem-ipsum-extended/</loc>
  <lastmod>2020-10-29</lastmod>
  <changefreq>daily</changefreq>
  <priority>1.0</priority>
</url>
-<url>
  <loc>http://127.0.0.1:8000/lorem-ipsum/</loc>
  <lastmod>2020-10-29</lastmod>
  <changefreq>daily</changefreq>
  <priority>1.0</priority>
</url>
</urlset>
```

Sample Sitemap

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