

Lab 04: Views

This is a continuation of Lab 3. You will now be adding views to your Blog app.

If you get stuck, take a look at these resources:

1. Lecture slides
2. Previous labs
3. Other group members
4. Django documentation
 - a. Making Queries: <https://docs.djangoproject.com/en/1.4/topics/db/queries/>
 - b. QuerySets: <https://docs.djangoproject.com/en/dev/ref/models/querysets/>
 - c. Views: <https://docs.djangoproject.com/en/1.4/topics/http/views/>
 - d. Urls: <https://docs.djangoproject.com/en/1.4/topics/http/urls/>
5. Google
6. Instructors

Steps:

1. Open up your blog project

```
$ cd ~/Desktop/myblog
```
2. Add the following line to `myblog/urls.py`

```
url(r'^blog/', include('blog.urls')),
```
3. Open up your blog app

```
$ cd blog
```
4. Create a `urls.py` file and add this text (check for correct indentations – it's formatted slightly wrong in this document!):

```
from django.conf.urls import patterns, include, url

urlpatterns = patterns('',
    url(r'^$', 'blog.views.home'),
    url(r'^list/(?P<limit>\d+)?$', 'blog.views.blog_list'),

    url(r'^(detail/info)/(?P<id>\d+)/((?P<showComments>.*)/)?$',
        'blog.views.blog_detail'),
)
```
5. Now add another `url` field that searches for a url like `search/something`, where `something` is zero or more word characters. Capture this part of the url and pass it to `blog.views.blog_search`. For example, `yourdomain.com/blog/search/gorilla` passes `gorilla` to the view method as the first parameter.

6. Now edit the `views.py` file and put in the following:

```
from django.template import Context, loader
from django.http import HttpResponse
from models import Blog, Comment
```

```
def blog_list(request, limit=100):
    blog_list = Blog.objects.all()
    print type(blog_list)
    print blog_list
    return HttpResponse('going to give a list')
```

```
def blog_detail(request, id, showComments=False):
    pass
```

```
def blog_search(request, term):
    pass
```

```
def home(request):
    print 'blog home under construction'
    return HttpResponse('hello world')
```

7. You need to implement two views, the `blog_detail` and `blog_search`.
- For `blog_detail`, get a single blog and print it (this will show up in the runserver terminal when you load the page). Then, if `showComments` is `True`, get the comments associated with the current blog (the current blog is the blog with the `id`), and print them. To retrieve a single blog, use `Blog.objects.get(pk=id)`. To retrieve the comments of blog `b`, use `b.comment_set.all()`.
 - For `blog_search`, get all the blogs that contain a search string (case insensitive), and print them.

10. Add some blog posts with comments associated with them

11. Run your server (`python manage.py runserver`), and load the following pages, making sure they work:

- `blog/list`
- `blog/detail/1`
- `blog/search/<your term here>`
- `blog/`