



CLOUD SERVICES

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Cloud Application Design

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- Create a project (“my_awesome_website”) and an application (“blog”)
- Tell Django about the models by editing blog/models.py
- Tell Django about the database configuration, where it should look for templates, and where our blog application in our project by editing settings.py
- Create database tables based on our models using `./manage.py syncdb`

- Then use iPython to play with our models and create some test data
- Next tell Django how to interpret URLs in our browser in order to present us with some data from the database by editing urls.py
- Then create the view in urls.py by creating a function in views.py, which pulls data using our models and renders output using a template
- Lastly, create the template that our view method uses by creating a file called “index.html” in our template directory

- Creation of Project Blog : ./manage.py startapp blog
- models.py of the application

```
from django.db import models  
class Author(models.Model):  
    name = models.CharField(max_length=64)  
    email = models.CharField(max_length=64)  
  
    def __str__(self):  
        return "%s (%s)" % (self.name, self.email)
```

- models.py of the application

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

```
    title = models.CharField(max_length=64)
```

```
    date = models.DateTimeField()
```

```
    author = models.ForeignKey(Author)
```

```
    body = models.TextField()
```

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

```
        return "%s (%s)" % (self.title, self.author.name)
```

- Admin.py of the Project

```
from blog.models import Post, Author
from django.contrib import admin
Django.models.register(Author)
Django.models.register(Posts)
```

- Settings.py of the Project

```
DATABASE_ENGINE = 'mysql'
DATABASE_NAME = 'blog_db'
DATABASE_USER = 'blog_user'
DATABASE_PASSWORD = 'asdqwe'
DATABASE_HOST = 'local-db01'
DATABASE_PORT = ''

...

TEMPLATE_DIRS = (
    '/home/environment/my_awesome_website',
)
```


- Settings.py of the Project

```
INSTALLED_APPS = (  
    'django.contrib.auth',  
    'django.contrib.contenttypes',  
    'django.contrib.sessions',  
    'django.contrib.sites',  
    'my_awesome_website.blog',  
)
```

- **Sync your Database**
- On the command terminal : `./manage.py syncdb`
- **Check your model definitions**
- On the command terminal: `./manage.py validate`
- `./manage.py shell`

- **Views.py file**

```
from django.shortcuts import render_to_response  
from blog.models import Post, Author
```

```
def index(request):
```

```
    all_posts = Post.objects.all().order_by('-date')
```

```
    template_data = {'posts' : all_posts}
```

```
    return render_to_response('index.html', template_data)
```

- **Templates dir – Index.html**

```
{% for p in posts %}  
  {{p.title}}
```

```
  Written by {{p.author.name}} on {{p.date}} {{p.body}}  
{% endfor %}
```

- Admin Site
- settings.py file

Add 'django.contrib.admin', under Installed apps

- urls.py file

Edit urls.py and uncomment the line that looks like
“(r'^admin/(.*)', admin.site.root),”, or add it if it isn't there.

Add admin.autodiscover()

At the command prompt: ./manage.py syncdb

- **Admin.py file**

```
from blog.models import Post, Author  
from django.contrib import admin
```

```
admin.site.register(Author)  
admin.site.register(Post)
```

- **Run the application**

At the command prompt: `./manage.py runserver 8080`



THANK YOU

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