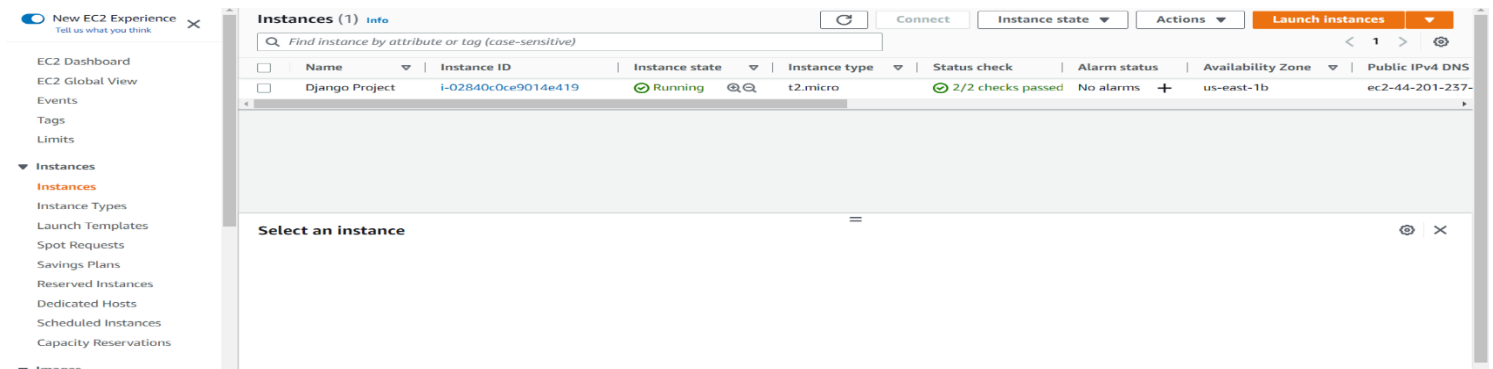


Django Web Application Using AWS & PostGreSql

1) **Step 1:-** Launch one Amazon EC2 Instance - **2AMI Linux - t2.micro** family with your key-pair & **SSH & All Traffic – Anywhere Security Group**.



2) **Step 2:-** LogIn into EC2 Instance. And Run Following Commands.

```
$ sudo su - root
```

```
$ sudo yum update -y
```

3) **Step 3:-** Install Git. And Run Following Commands.

```
$ git
```

```
$ sudo yum install git -y
```

```
$ git
```

```
$ git clone https://github.com/LondheShubham153/django-tutorial.git
```

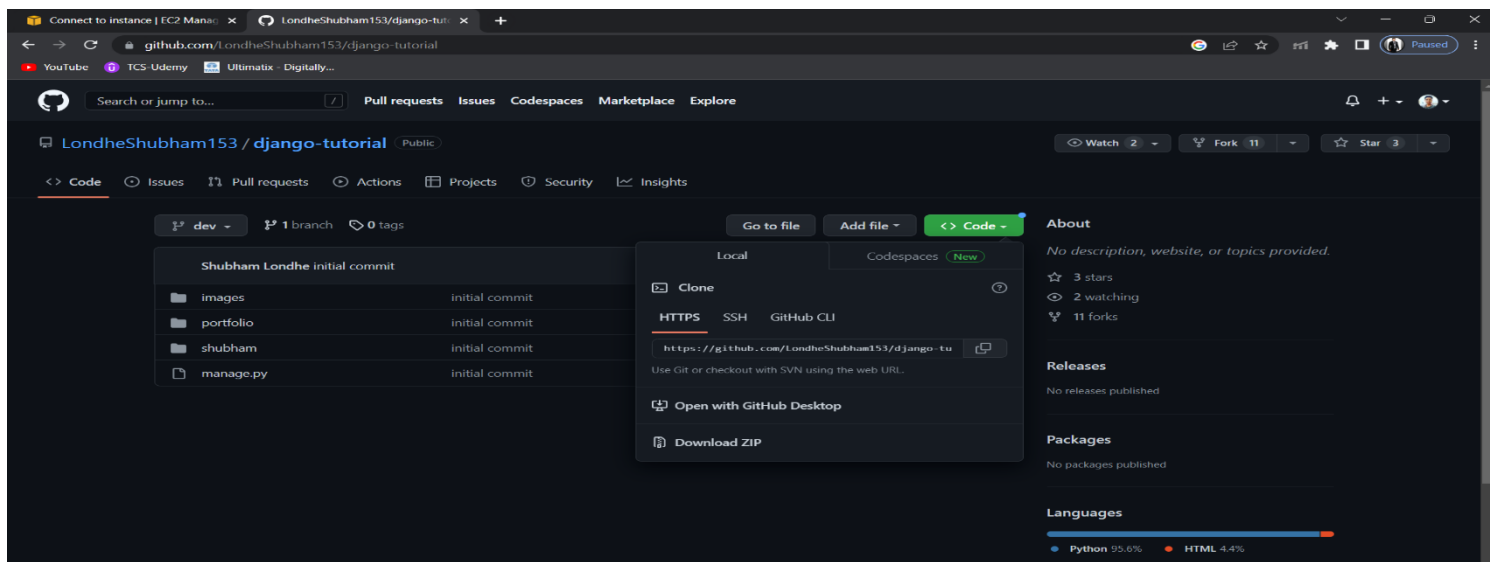
```
$ ls
```

```
django-tutorial
```

```
$ cd django-tutorial/
```

```
$ ls
```

```
images manage.py portfolio Shubham
```



4) Step 4:- Install python3 if not present

```
$ sudo yum install python3 -y
```

5) Step 5:- In my case python3 is already present so directly install Django. And download dependencies. You can directly download all of these dependencies by making requirement.txt file.

```
$ sudo pip3 install django
```

```
$ sudo pip3 install psycopg2-binary
```

```
$ sudo pip3 install pillow
```

6) Step 6:- Install PostgreSQL

Link :- <https://dailyscraw1.com/how-to-install-postgresql-on-amazon-linux-2/>

```
$ sudo amazon-linux-extras install postgresql10 vim epel -y
```

```
$ sudo yum install -y postgresql-server postgresql-devel
```

```
$ /usr/bin/postgresql-setup --initdb
```

```
$ sudo systemctl enable postgresql
```

```
$ sudo systemctl start postgresql
```

```
$ sudo systemctl status postgresql
```

fail

```
$ sudo service postgresql initdb
```

```
$ sudo systemctl start postgresql
```

```
$ sudo systemctl status postgresql
```

Active

```
$ clear
```

7) Step 7:- Now try to run your Django service.

```
$ sudo -u postgres psql
```

```
postgres# \password
```

root

root

```
postgres# \q
```

Exit

8) Step 8:- Now try to run the project.

```
$ sudo vim shubham/settings.py
```

'USER': 'postgres',

(Save)

```
$ sudo -u postgres psql
```

```
postgres# create database portfoliodb;
```

```
postgres# \q
```

```
$ sudo vim /var/lib/pgsql/data/pg_hba.conf
```

Make all Method :- md5

```
$ sudo service postgresql restart
```

```
$ python3 manage.py runserver
```

```
$ python3 manage.py makemigrations
```

```
$ python3 manage.py migrate
```

```
$ psql -U postgres -d portfoliodb
```

Passwd:- root

```
portfoliodb# \dt
```

```
portfoliodb=# \q
```

```
$ python3 manage.py createsuperuser
```

Superuser:- akashbkochure

Email :-

Passwd:- akash123

Again:- akash123

```
$ python3 manage.py runserver
```

It runs on local host. And we have to run it on our EC2 instance. So follow steps.

```
$ python3 manage.py runserver 0:8000
```

0 means publicly accessible.

```
$ sudo vim shubham/settings.py
```

```
ALLOWED_HOSTS = ["*"]
```

```
$ sudo service postgresql restart
```

```
$ python3 manage.py runserver 0:8000
```

9) Step 9:- Put your dns public ip url into browser.

```
ec2-54-204-229-64.compute-1.amazonaws.com:8000
```

```
ec2-54-204-229-64.compute-1.amazonaws.com:8000/admin
```

10) Step 10:- logIn into Django Web App with your Superuser credential name & password.

Name:- akashbkochure

Pass:- akash123

11) Step 11:- Create job

Any upload file

12) Step 12:- Put into Browser

ec2-54-204-229-64.compute-1.amazonaws.com:8000/postgres/job

```
# Database
# https://docs.djangoproject.com/en/3.1/ref/settings/#databases

DATABASES = {
    'default': {
        'ENGINE': 'django.db.backends.postgresql_psycopg2',
        'NAME': 'portfoliodb',
        'USER': 'postgres',
        'PASSWORD': 'root',
        'HOST': 'localhost',
        'PORT': '5432'
    }
}

# Password validation
# https://docs.djangoproject.com/en/3.1/ref/settings/#auth-password-validators

AUTH_PASSWORD_VALIDATORS = [
    {
        'NAME': 'django.contrib.auth.password_validation.UserAttributeSimilarityValidator',
    },
    {
        'NAME': 'django.contrib.auth.password_validation.MinimumLengthValidator',
    },
    {
        'NAME': 'django.contrib.auth.password_validation.CommonPasswordValidator',
    },
    {
        'NAME': 'django.contrib.auth.password_validation.NumericPasswordValidator',
    },
]

-- INSERT --
```

```
#
# This file is read on server startup and when the server receives a
# SIGHUP signal. If you edit the file on a running system, you have to
# SIGHUP the server for the changes to take effect, run "pg_ctl reload",
# or execute "SELECT pg_reload_conf()".
#
# Put your actual configuration here
# -----
#
# If you want to allow non-local connections, you need to add more
# "host" records. In that case you will also need to make PostgreSQL
# listen on a non-local interface via the listen_addresses
# configuration parameter, or via the -i or -h command line switches.


# TYPE      DATABASE      USER      ADDRESS      METHOD

# "local" is for Unix domain socket connections only
local      all             all                                     md5
# IPv4 local connections:
host      all             all             127.0.0.1/32   md5
# IPv6 local connections:
host      all             all             ::1/128        md5
# Allow replication connections from localhost, by a user with the
# replication privilege.
local      replication    all                                     md5
host      replication    all             127.0.0.1/32   md5
host      replication    all             ::1/128        md5

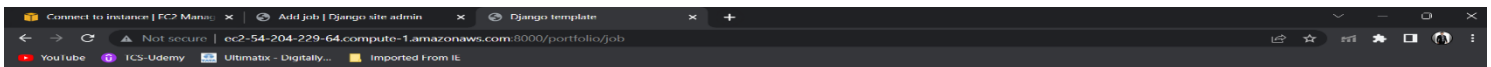
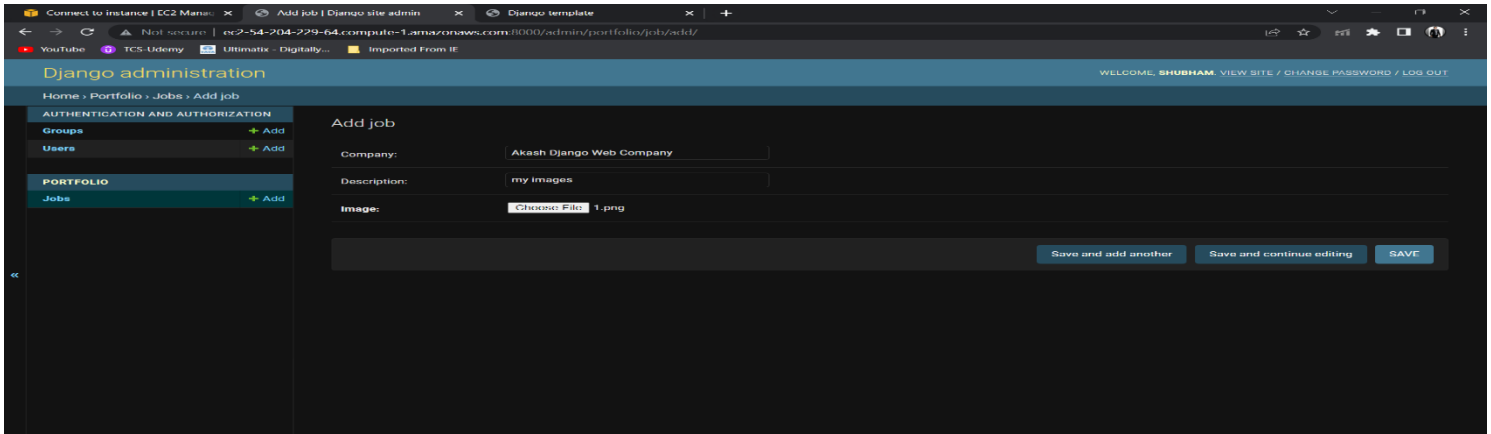
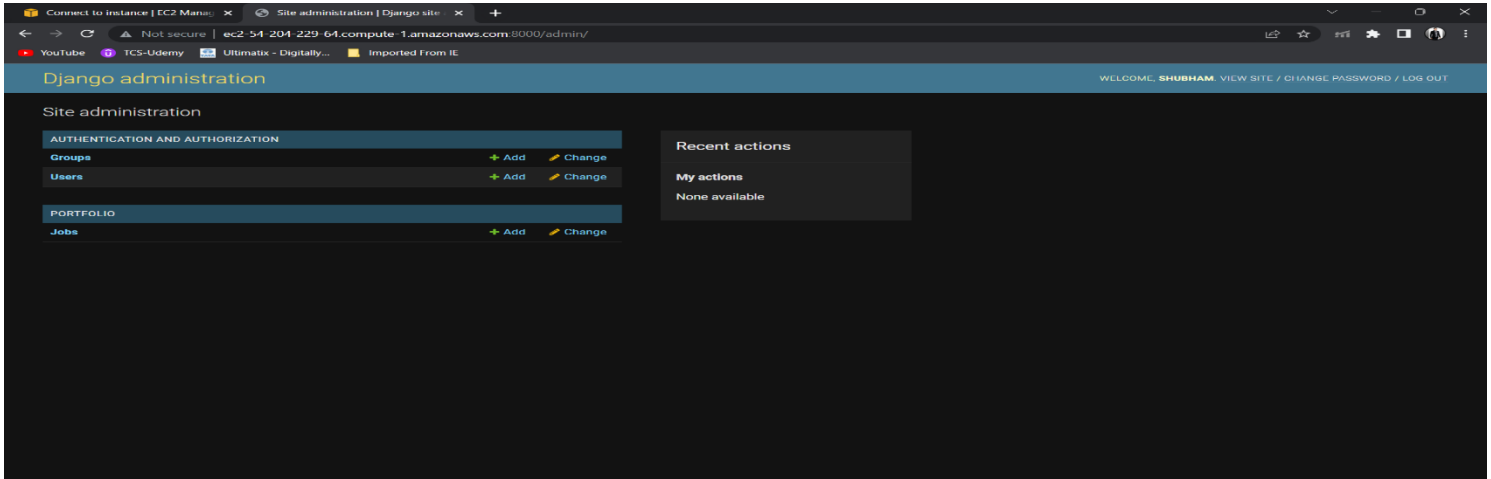
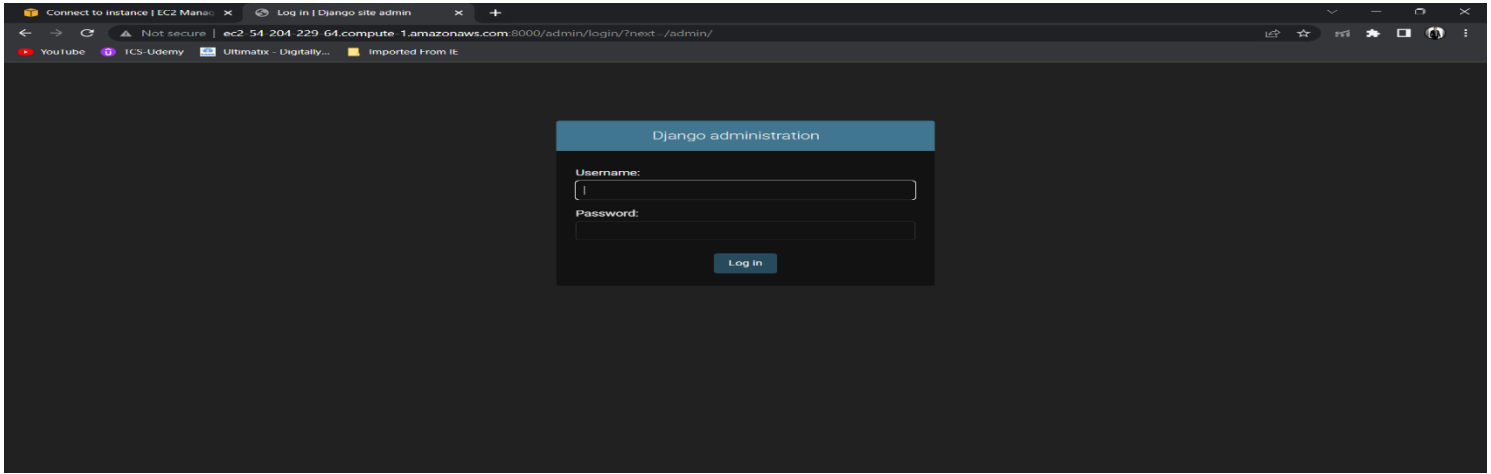
-- INSERT --
```

```
WARNINGS:
portfolio.Job: (models.W042) Auto-created primary key used when not defining a primary key type, by default 'django.db.m
odels.AutoField'.
HINT: Configure the DEFAULT_AUTO_FIELD setting or the PortfolioConfig.default_auto_field attribute to point to a
subclass of AutoField, e.g. 'django.db.models.BigAutoField'.
Operations to perform:
  Apply all migrations: admin, auth, contenttypes, portfolio, sessions
Running migrations:
  Applying contenttypes.0001_initial... OK
  Applying auth.0001_initial... OK
  Applying admin.0001_initial... OK
  Applying admin.0002_logentry_remove_auto_add... OK
  Applying admin.0003_logentry_add_action_flag_choices... OK
  Applying contenttypes.0002_remove_content_type_name... OK
  Applying auth.0002_alter_permission_name_max_length... OK
  Applying auth.0003_alter_user_email_max_length... OK
  Applying auth.0004_alter_user_username_opts... OK
  Applying auth.0005_alter_user_last_login_null... OK
  Applying auth.0006_require_contenttypes_0002... OK
  Applying auth.0007_alter_validators_add_error_messages... OK
  Applying auth.0008_alter_user_username_max_length... OK
  Applying auth.0009_alter_user_last_name_max_length... OK
  Applying auth.0010_alter_group_name_max_length... OK
  Applying auth.0011_update_proxy_permissions... OK
  Applying auth.0012_alter_user_first_name_max_length... OK
  Applying portfolio.0001_initial... OK
  Applying portfolio.0002_auto_20200824_1033... OK
  Applying sessions.0001_initial... OK
[ec2-user@ip-172-31-81-89 django-tutorial]$ |
```

```
[ec2-user@ip-172-31-81-89 django-tutorial]$ psql -U postgres -d portfoliodb
Password for user postgres:
psql (10.21)
Type "help" for help.

portfoliodb=# \dt
          List of relations
Schema | Name                | Type  | Owner
-----|-----|-----|-----
public | auth_group           | table | postgres
public | auth_group_permissions | table | postgres
public | auth_permission      | table | postgres
public | auth_user            | table | postgres
public | auth_user_groups     | table | postgres
public | auth_user_user_permissions | table | postgres
public | django_admin_log     | table | postgres
public | django_content_type  | table | postgres
public | django_migrations    | table | postgres
public | django_session       | table | postgres
public | portfolio_job        | table | postgres
(11 rows)

portfoliodb=# |
```



TrainWithShubham

I love to teach and train individuals

These are my jobs

Contact me: [T.inkeedIn: shubhamlondhe1996](#)
[Instagram: shubhamlondhe96](#)

Successfully Completed.