**Launch Django Web Application on EC2 Instance:**

**Pre-requisites:**

1. Create Key Pair to SSH the EC2 instance
2. Create Security Group and add below inbound rules

* SSH – 40 – Anywhere IPv4 – 0.0.0.0/0
* HTTP – 80 – Anywhere IPv4 – 0.0.0.0/0
* HTTPS – 443 – Anywhere IPv4 – 0.0.0.0/0
* Custom TCP Protocol – 8000 – Anywhere IPv4 – 0.0.0.0/0

1. Launch EC2 using these Key and SG with Amazon Linux 2 as OS image
2. EC2 starts running, use putty or gitbash to access this server

* ssh -i "<Key\_Name>.pem" ec2-user@<IPv4\_Address>

1. After logging into the EC2 instance

* Install virtualenv:

sudo pip3 install virtualenv

* After installation, create virtual environment named eb-virt
* virtualenv ~/eb-virt
* Activate virtual environment created

source ~/eb-virt/bin/activate

* install Django

pip install Django==2.1

**Note**: For EC2 instance Django 2.1 is the compatible version. Later version will cause issues in execution

* Create Django application:

django-admin startproject <project\_name>

* after creation of Django project change directory to project and run makemigrations and migrate command to activate the sqlite db

python manage.py makemigrations

python manage.py migrate

* Run application on server

python manage.py runserver 0.0.0.0:8000

* once it is running then goto browser and use IPv4 address and port number to access the application

https://<IPv4\_address>:8000

Therefore, your application will be up and running on the EC2 instance.