# **Deploy Django Application In Background Using Jenkins**

## Requirements:

- Django 3.0.3
- asgiref==3.2.3
- django-cors-headers==3.2.1
- djangorestframework==3.11.0
- pytz==2019.3
- sqlparse==0.3.0

Above all mentioned requirements are available in "requirements.txt" file After cloning project it contains "requirement.txt" file, we have to run -

### pip install -r requirement.txt

Following are the steps to deploy Django Application through Jenkins -

#### Steps:

- 1) Create a Freestyle job in jenkins.
- 2) Clone your project repository from github



3) Mention from which Branch you have to clone your repository.



4) Under Build Step choose the "Execute Shell" option and write following commands.

## **Build Steps**



**export BUILD\_ID=dontkillme**: This tells the operating system not to kill the process even if the terminal session ends.

**pip install -r requirements.txt :** This command installs the Python packages listed in the requirements.txt file.

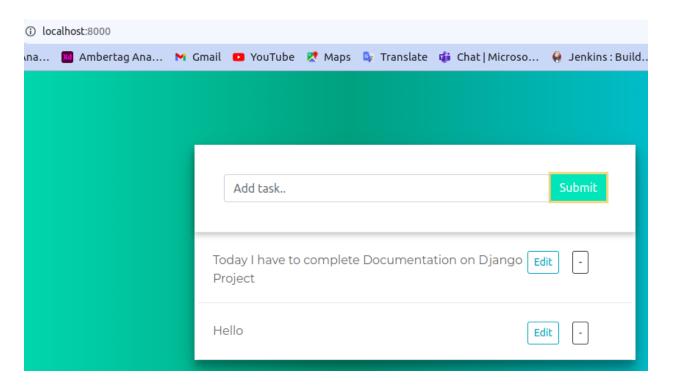
#### nohup python3 manage.py runserver &:

**Nohup**: A Unix command that stands for "no hang up." It's used to run a command in the background and prevent it from being terminated when the terminal session

#### Ends.

**python3 manage.py runserver**: This runs a development server for a Django web application (assuming you're using Django). It starts the server and listens for incoming requests.

- **&**: This symbol runs the command in the background, allowing you to continue using the terminal for other tasks.
- 5) Save the job and After building the project we will get the following output. Our application will run on localhost:8000



6) If we want to stop application then we need to kill process Id

```
sumit@sumit-ubuntu:/mnt/Django/New_Dj/react_django_demo_app$ ps aux | grep python3
            609 0.0 0.1 48332 7116 ?
                                                            0:00 /usr/bin/
                                                                                  /usr/bin/networkd-d
root
                                               Ss
                                                    10:15
root
            771 0.0 0.2 126784 7888 ?
                                               Ssl 10:15
                                                            0:00 /usr/bin/
                                                                                  /usr/share/unattend
tdown --wait-for-signal
jenkins
          11933 0.0 0.3 54552 15196 ?
                                               S
                                                    15:02
                                                            0:00
                                                                         manage.py runserver
jenkins
          11935 6.1 1.2 732260 48632 ?
                                               Rl 15:02
                                                            4:53 /usr/bin/pythor
                                                                                 manage.py runserve
                                                            0:00 grep --color=auto
                                  720 pts/1
                                               S+ 16:22
          14150 0.0 0.0 17672
sumit@sumit-ubuntu:/mnt/Django/New_Dj/react_django_demo_app$ kill 11933
bash: kill: (11933) - Operation not permitted
sumit@sumit-ubuntu:/mnt/Django/New_Dj/react_django_demo_app$ sudo kill 11933
```