

How TO Install Server

step 1

install anaconda on server machine.

set up enviroment on anaconda with python3.8 and activate the enviroment

```
!conda create -n myenv python=3.8
!conda activate myenv
```

refer : [<https://docs.conda.io/projects/conda/en/latest/user-guide/tasks/manage-environments.html>]

step 2

install dependencies

```
!pip install django

!pip install djangorestframework

!pip install opencv-python

!pip install opencv-contrib-python

!pip install scipy

!pip install imutils

!pip install python-docx

!pip install tensorflow

!pip install matplotlib
```

NOTE : Need Cuda Opencv Build from Source For Speed But Normal opencv Also should Work Fine.

step 3

download below mentoined weights from drive link: https://drive.google.com/drive/folders/1zP2cQ_LVuVzXykqso9mVDAjvDTHYF4nR?usp=sharing

- DenseNet169_E10.hdf5
- ResNetV2_Epoch_20.hdf5
- ResNet_Epoch_20.hdf5
- YoloV3SIH(NoPlate-Final)_final.weights
- YoloV3SIH(Segmentation)_final.weights

copy all the weights in weights folder

step 4

- use ipconfig to get ip of pc
- add your Local Ip in allowed Host List in SIH_SERVER > settings.py

```
ALLOWED_HOSTS = [ 'localhost', '127.0.0.1', <YOUR IP> ]
```

note: both server and client should be in same Network

- use this command to run server on your localhost

```
python manage.py runserver <YOUR IP>:8000  
EX : python manage.py runserver 192.186.1.227:8000
```

NOTE : it will take time to load When first time you Call Api.