How to use

First you have to change ip.text which is in the pi folder to your own ip.

Then you should go to requirements.txt file which is in both server folder and pi folder and install the necessary requirements.

Then run pi\_edge.py (its in pi folder) in your raspberry pi and run back\_end.py(its on the server folder) on your computer.

How its works:

In pi\_edge.py we open the camera, take a picture in the camera and apply tiny yolo to camera.

After that we send the picture in two endpoint named

end\_point\_1a

end\_point\_1b

And send the results of tiny yolo to endpoint:

end\_point\_2

end\_point\_1a:

In here we save the image server/pics folder and return image file which has been annotated with the bounding boxes of the detections.

end\_point\_1b:

In here we find how many people are there in the image with applying yolo to image. We return the result

end\_point\_2:

In here we look tiny yolo results to find how many people are there. We return the result.