Prior Knowledge

One should have knowledge of the following Concepts:

- > YOLO v3
- > Flask

YOLO v3:

- Setting up and Installing Dependencies using ANACONDA.
- Downloading and Converting YOLOv3 weights into TensorFlow model files.
- How to run detections in real-time on webcam and video.

Flask:

- Flask is a web application framework written in Python
- ➤ Flask is based on Werkzeug, WSGI toolkit and Jinja2 template engine. Both are Pocco projects.

Werkzeug:

It is a WSGI toolkit, which implements requests, response objects, and other utility functions. This enables building a web framework on top of it. The Flask framework uses Werkzeug as one of its bases.

WSGI:

Web Server Gateway Interface (WSGI) has been adopted as a standard for Python web application development. WSGI is a specification for a universal interface between the web server and the web applications.

Jinja2:

Jinja2 is a popular templating engine for Python. A web templating system combines a template with a certain data source to render dynamic web pages.

Install virtualenv for development environment:

virtualenv is a virtual Python environment builder. It helps a user to create multiple Python environments side-by-side.

1) Install virtualenv.

pip install virtualenv

2)Once install new virtural environment is created in new folder.

mkdir newproj cd newproj virtualenv venv

3) On windows, to active.

venv\scripts\activate

4)Now we can install flask.

pip install Flask