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Connect Phone Camera to PC using this Python code
Use this in your Python, AI/ML Projects

Install Required Libraries

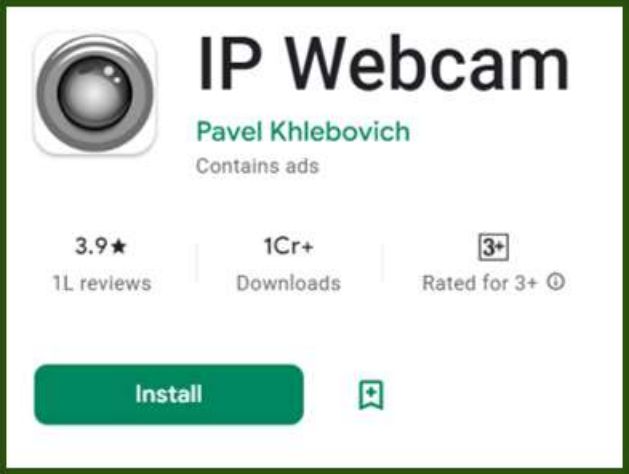
Step1: Ensure you have Python installed on your PC. We will install required modules using pip. Open your command prompt and run below commands one after another.

```
pip install requests
pip install opencv-python
pip install numpy
pip install imutils
```

1.requests: To make HTTP requests to fetch the image.
2.opencv-python (cv2): To read and display frames of video.
3.numpy: To work with arrays and numerical operations.
4.imutils: To resize the image.

Install IP Webcam App

Step2: On your smartphone, install an IP webcam app from store. Examples include "IP Webcam" for Android. These apps provide the functionality to stream your phone's camera over the network.



Step3: Connect Phone and PC to the Same local network. They should be on the same Wi-Fi network for this method to work.

Launch IP Webcam app

Step4: Open IP webcam app on your phone and click on Start server. You can adjust some settings like resolution, frame rate in app settings.

Step5: The IP webcam app will display camera video and IP address on the screen. This address is crucial for accessing the camera feed on your PC. Note down this IP address.

Python Implementation

In the code we will continuously fetch image data from the ip address URL using the request module and convert this to an image frame using NumPy and we will display this image using OpenCV.

```python
# Import essential libraries
import requests
import cv2
import numpy as np
import imutils
# Replace the below URL with your own. Make sure to add "/shot.jpg" at last.
url = "http://192.168.0.103:8080/shot.jpg"
# While loop to continuously fetching data from the Url
while True:
    img_resp = requests.get(url)
    img_arr = np.array(bytearray(img_resp.content), dtype=np.uint8)
    img = cv2.imdecode(img_arr, -1)
    img = imutils.resize(img, width=1000, height=1800)
    cv2.imshow("Camera Feed", img)
    # Press Esc key to exit
    if cv2.waitKey(1) == 27:
        break
cv2.destroyAllWindows()
```

Run the Python code

Step6: Run the Python Code in your development environment. It will connect to the IP webcam app's camera stream and display the frames on your PC.

That's it! You have now connected your phone camera to your PC without using a USB connection. Remember to have both devices connected to the same local network for successful streaming.

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