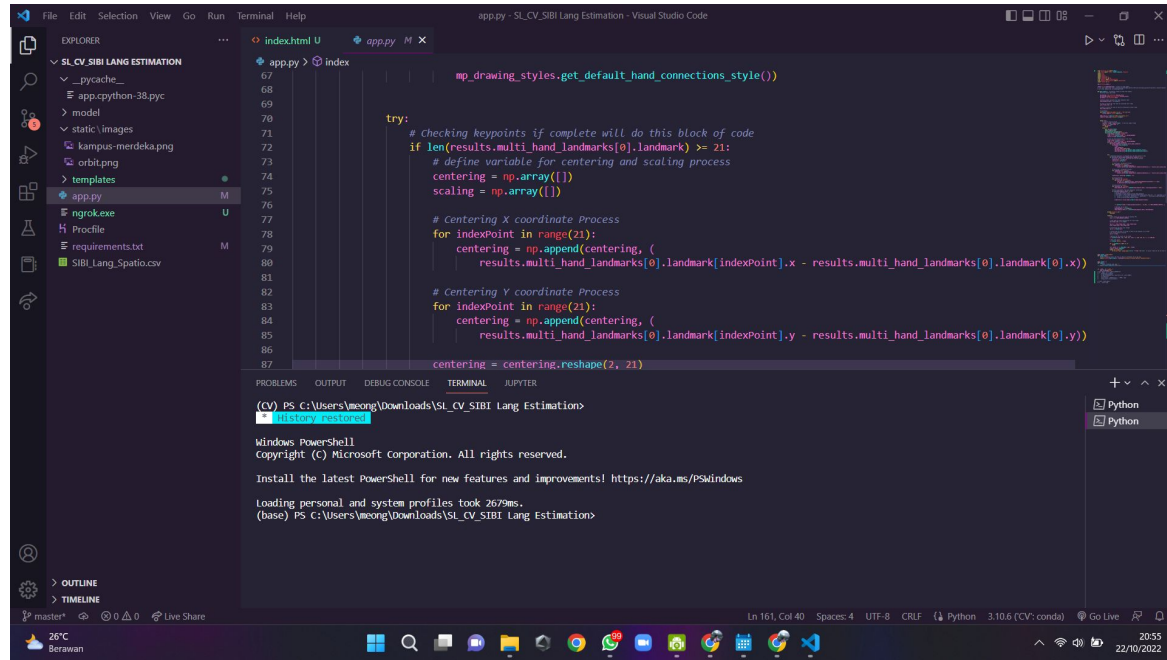


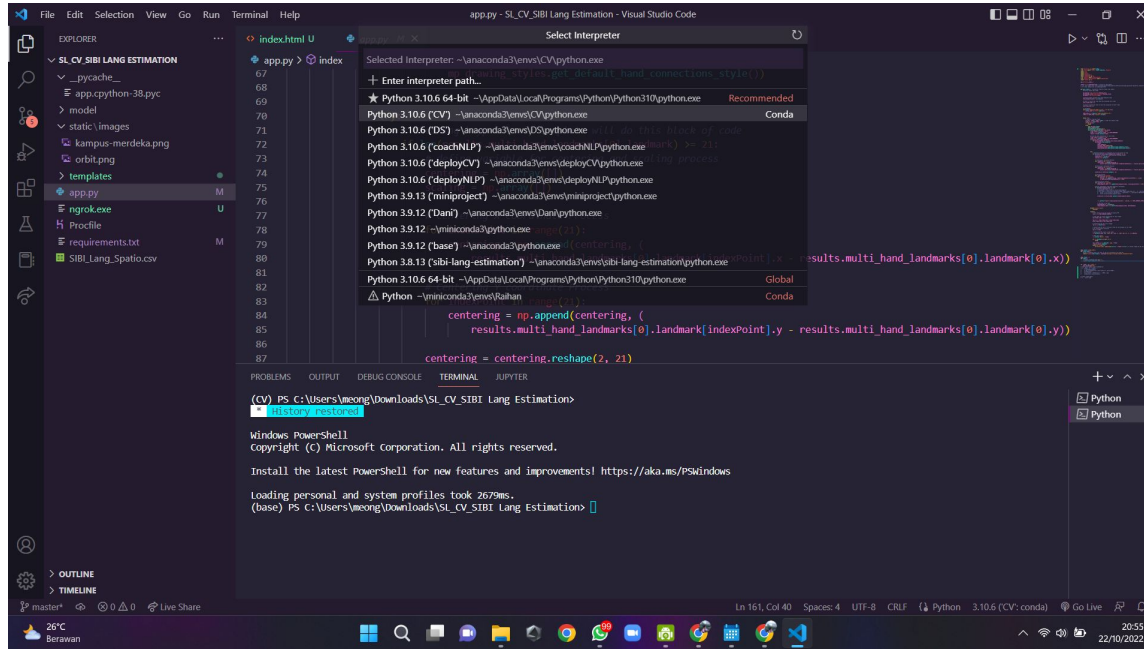


Tutorial Deployment NGROK

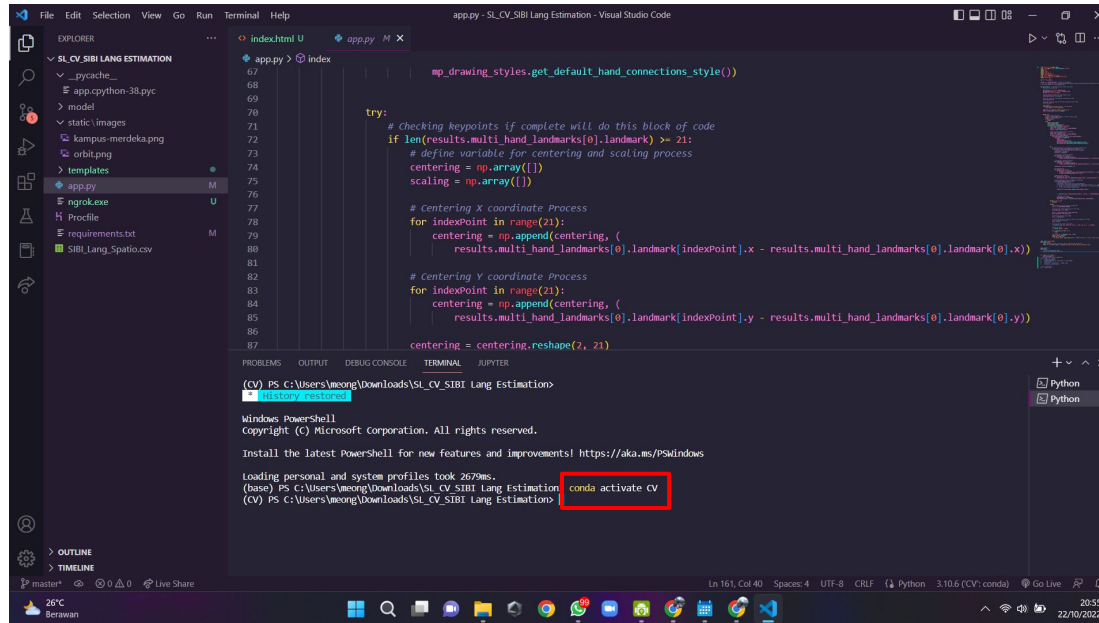
RAIHAN MAULANA RAMADHAN -
JUMATEC



1. Siapkan file yang sudah siap untuk di deploy



2. Pilih interpreter yang akan digunakan, disini saya akan menggunakan virtual environment baru dengan nama 'CV'



3. Kemudian membuka terminal dengan mengaktifkan virtual environment terlebih dahulu

```
File Edit Selection View Go Run Terminal Help
app.py - SL_CV_SIBI Lang Estimation - Visual Studio Code

EXPLORER
SL_CV_SIBI LANG ESTIMATION
  _pycache_
  app.py:python-38.py
  model
  static/images
  kampus-merdeka.png
  orbit.png
  templates
  app.py
  ngrok.exe
  Profile
  requirements.txt
  SIBI_Lang_Spatio.csv

app.py > index
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# Checking keypoints if complete will do this block of code
if len(results.multi_hand_landmarks[0].landmark) >= 21:
    # define variable for centering and scaling process
    centering = np.array([[]])
    scaling = np.array([[]])

    # Centering X coordinate Process
    for indexPoint in range(21):
        centering = np.append(centering, (
            results.multi_hand_landmarks[0].landmark[indexPoint].x - results.multi_hand_landmarks[0].landmark[0].x))

    # Centering Y coordinate Process
    for indexPoint in range(21):
        centering = np.append(centering, (
            results.multi_hand_landmarks[0].landmark[indexPoint].y - results.multi_hand_landmarks[0].landmark[0].y))

    centering = centering.reshape(2, 21)

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
Loading personal and system profiles took 2679ms.
(base) PS C:\Users\meong\Downloads\SL_CV_SIBI_Lang_Estimation> conda activate CV
(CV) PS C:\Users\meong\Downloads\SL_CV_SIBI_Lang_Estimation> python app.py
* Serving Flask app 'app' (lazy loading)
* Environment: production
WARNING: This is a development server. Do not use it in a production deployment.
Use a production WSGI server instead.
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 728-156-625
```

4. Running aplikasi dengan perintah nomor 1. Setelah itu copy port '5000' di nomor 2

```
File Edit Selection View Go Run Terminal Help
app.py - SL_CV_SIBI Lang Estimation - Visual Studio Code

EXPLORER
SL_CV_SIBI LANG ESTIMATION
  __pycache__
  app.py python 38.py
  model
  static images
  kampus-merdeka.png
  orbit.png
  templates
  app.py
  ngrok.exe
  Profile
  requirements.txt
  SIBI_Lang_Spatio.csv

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mp_drawing_styles.get_default_hand_connections_style()

try:
    # checking keypoints if complete will do this block of code
    if len(results.multi_hand_landmarks[0].landmark) >= 21:
        # define variable for centering and scaling process
        centering = np.array([])
        scaling = np.array([])

        # Centering X coordinate Process
        for indexPoint in range(21):
            centering = np.append(centering, (
                results.multi_hand_landmarks[0].landmark[indexPoint].x - results.multi_hand_landmarks[0].landmark[0].x))

        # Centering Y coordinate Process
        for indexPoint in range(21):
            centering = np.append(centering, (
                results.multi_hand_landmarks[0].landmark[indexPoint].y - results.multi_hand_landmarks[0].landmark[0].y))

        centering = centering.reshape(2, 21)

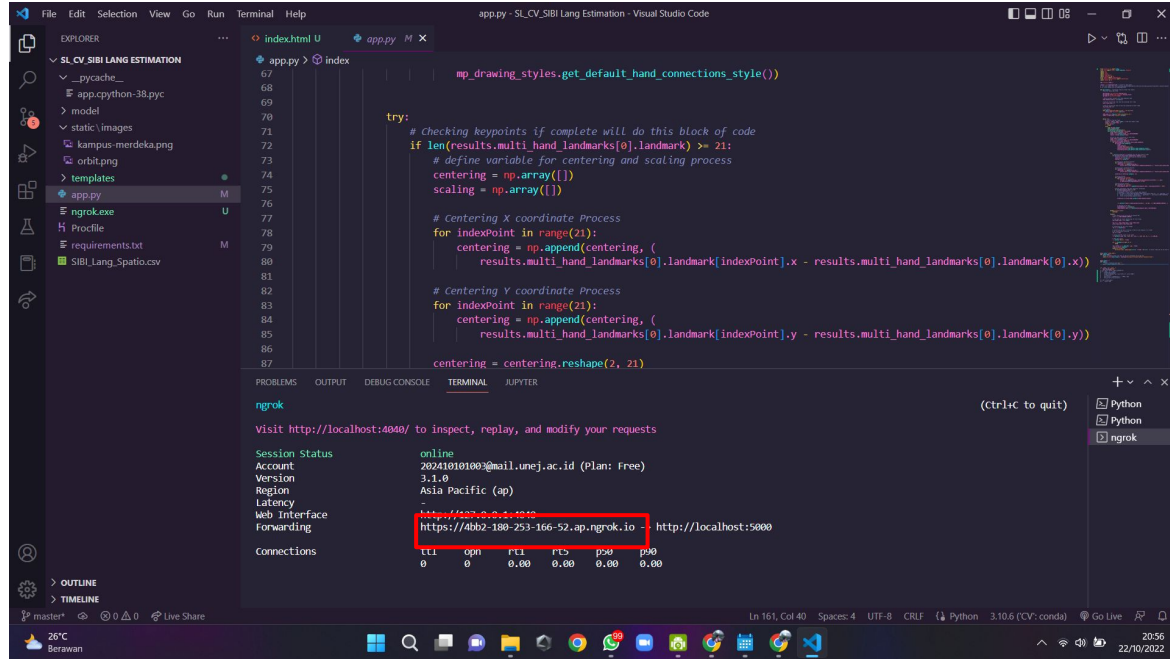
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

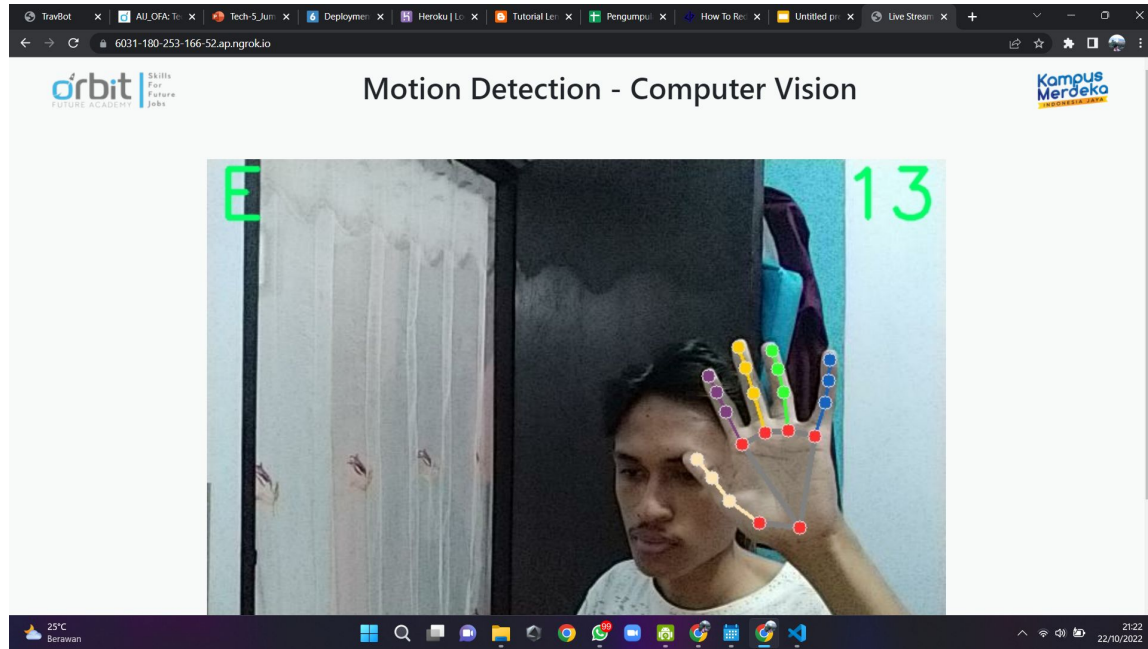
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

Loading personal and system profiles took 158ms.
(base) PS C:\Users\maong\Downloads\SL_CV_SIBI Lang Estimation> conda activate CV
(CV) PS C:\Users\maong\Downloads\SL_CV_SIBI Lang Estimation> ngrok http 5000
```

5. Setelah itu buka terminal baru dan ketikkan perintah 'ngrok http' setelah itu pastekan port yang sudah di copy tadi



6. Copy link tersebut untuk di demokan pada device lainnya.



7. Deploy ngrok telah berhasil