

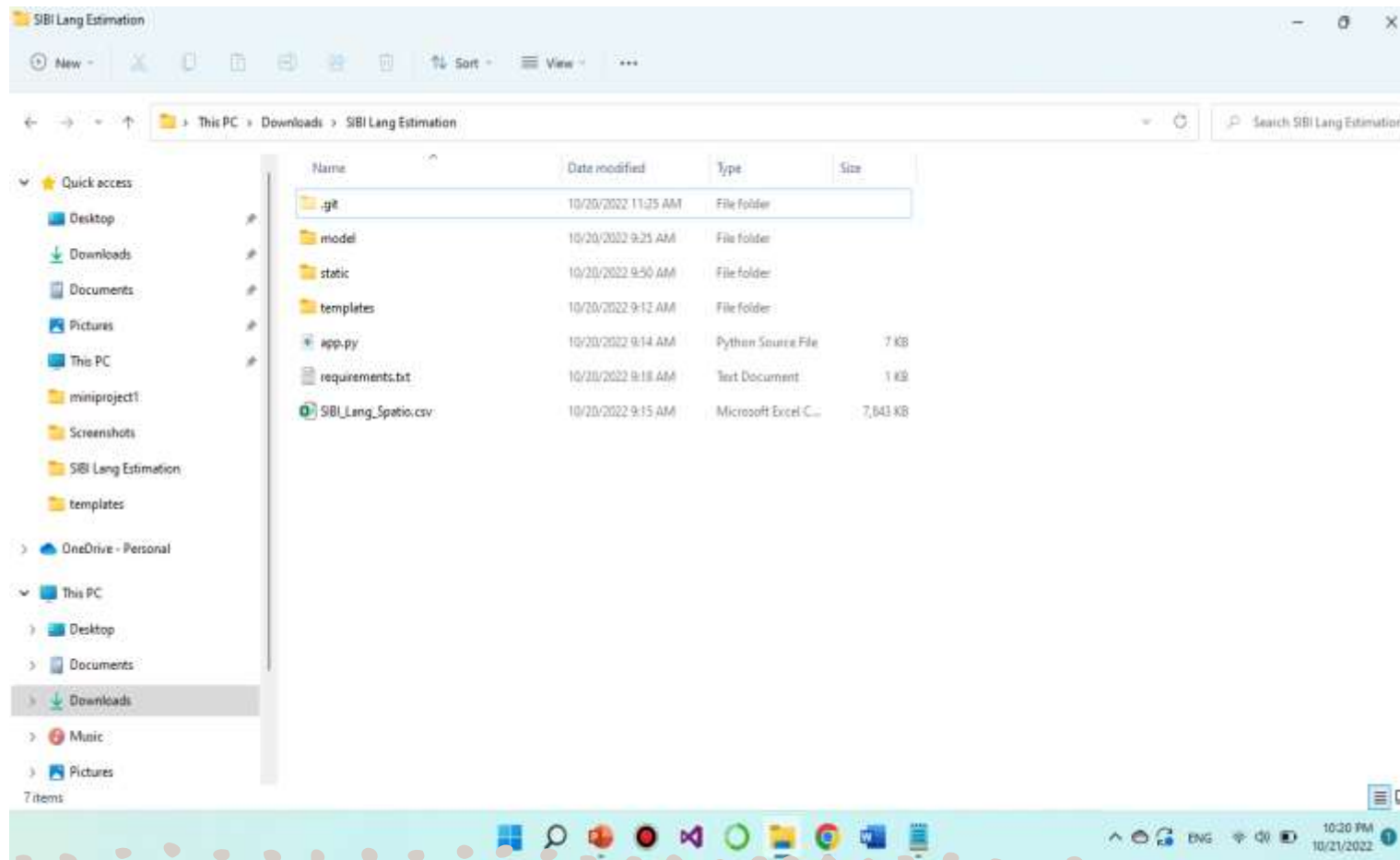
A background image of a business meeting with people in suits. A white rectangular text box is overlaid on the right side of the image. The box contains the title, author name, and company name. The background image shows hands pointing at a tablet, a coffee cup, and people in business attire. There are decorative white dots on the right side of the image.

Tutorial Deploy CV Melalui Ngrok

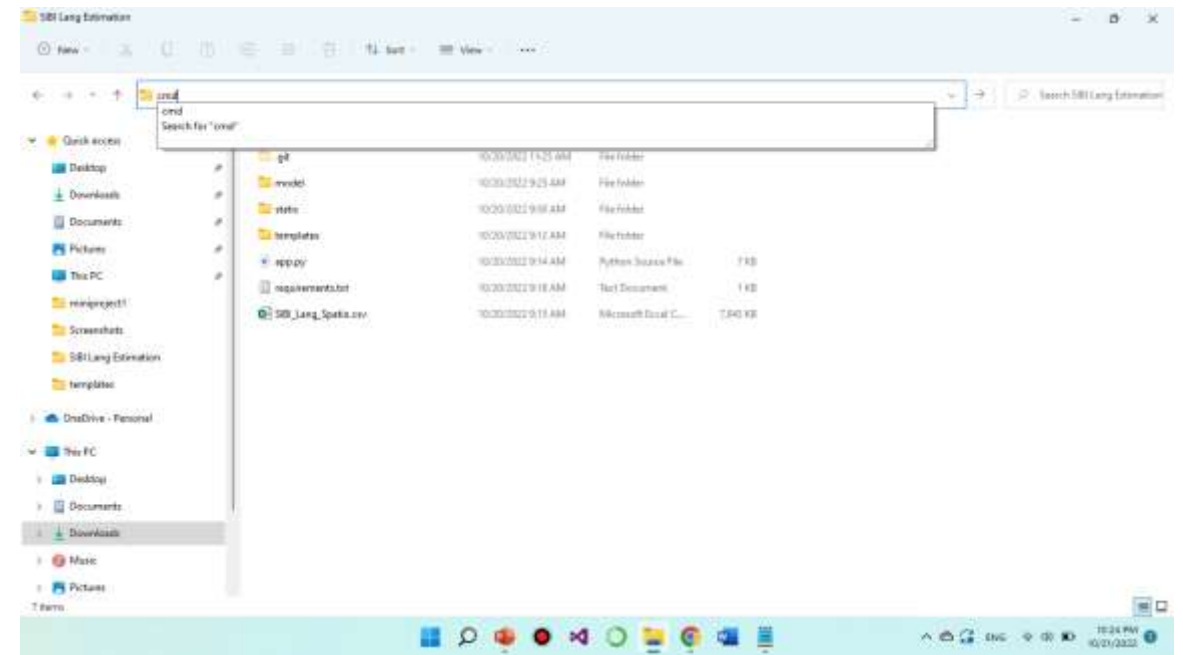
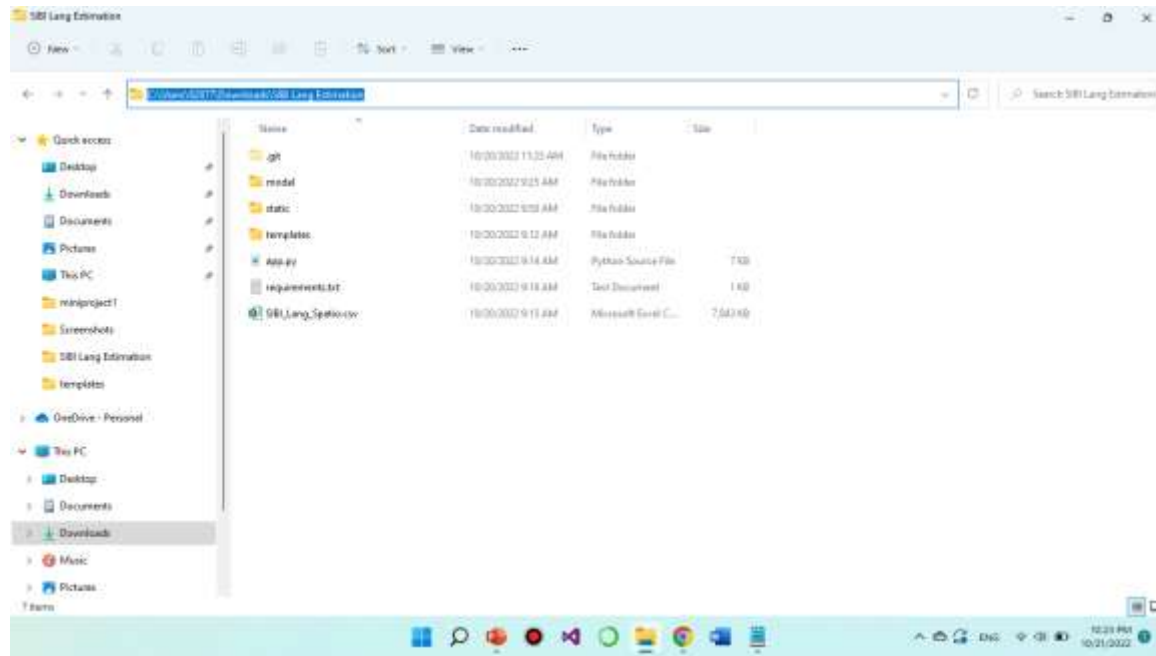
THOMAS MARCELLINO

JUMATEC

Langkah - Langkah



1. Buka folder project SIBI Lang Estimation (Flask CV) menggunakan Windows Explorer



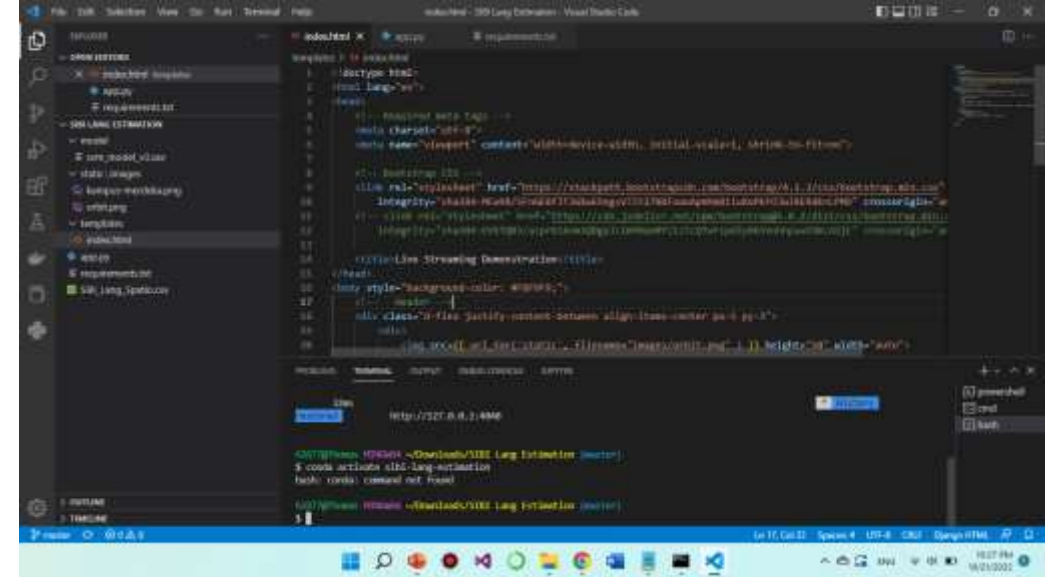
2. Bagi pengguna windows, buka console dengan cara ketik **cmd** di tab address Windows Explorer kemudian tekan tombol **Enter**.



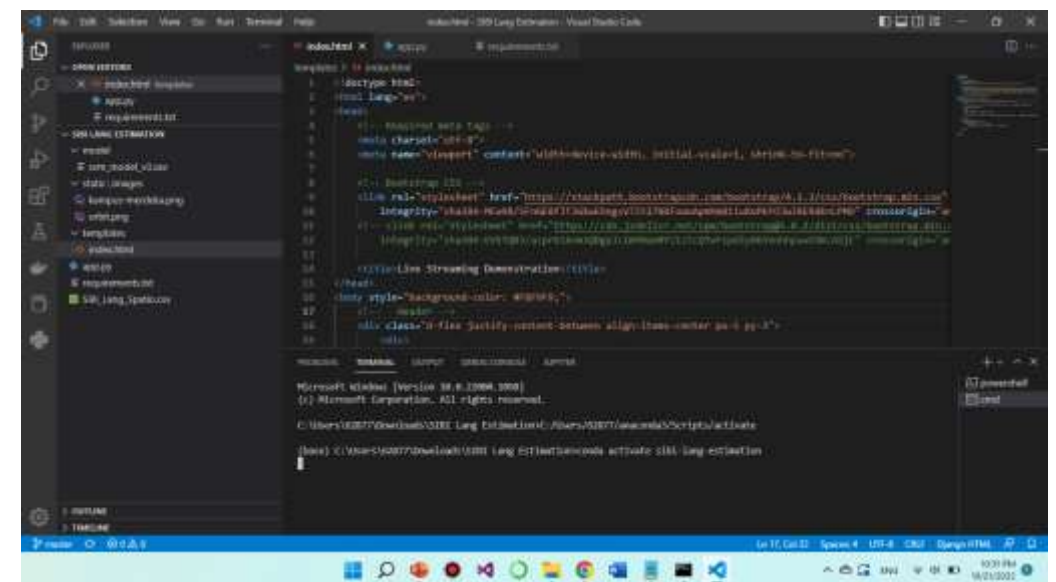
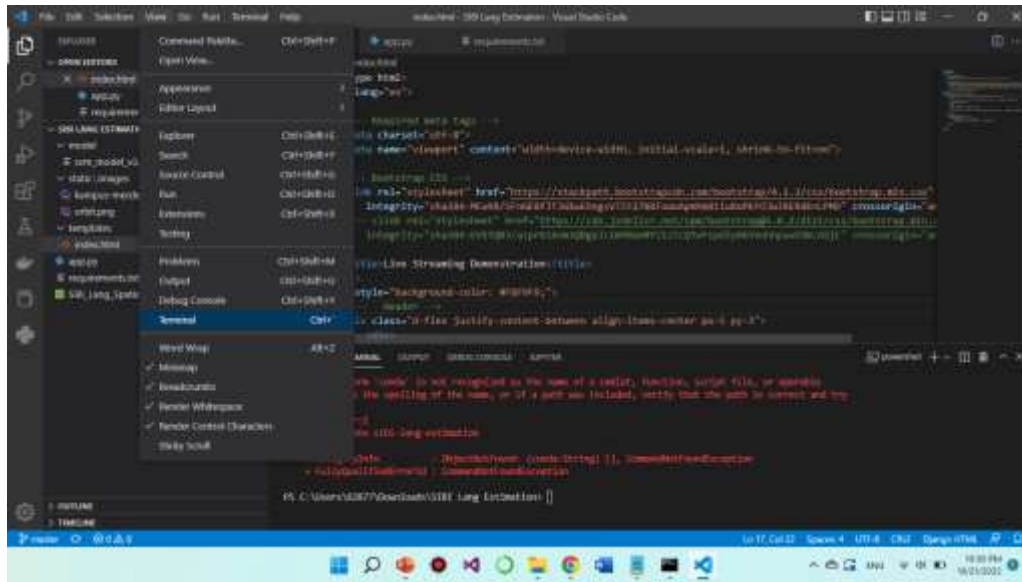
```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.22000.1098]
(c) Microsoft Corporation. All rights reserved.

.\Users\62877\Downloads\SIBI Lang Estimation>code .

.\Users\62877\Downloads\SIBI Lang Estimation>
```



3. Ketik kata “code .” Setelah itu Aplikasi Visual Studio Code akan terbuka dengan akses folder aplikasi SIBI Lang Estimation.



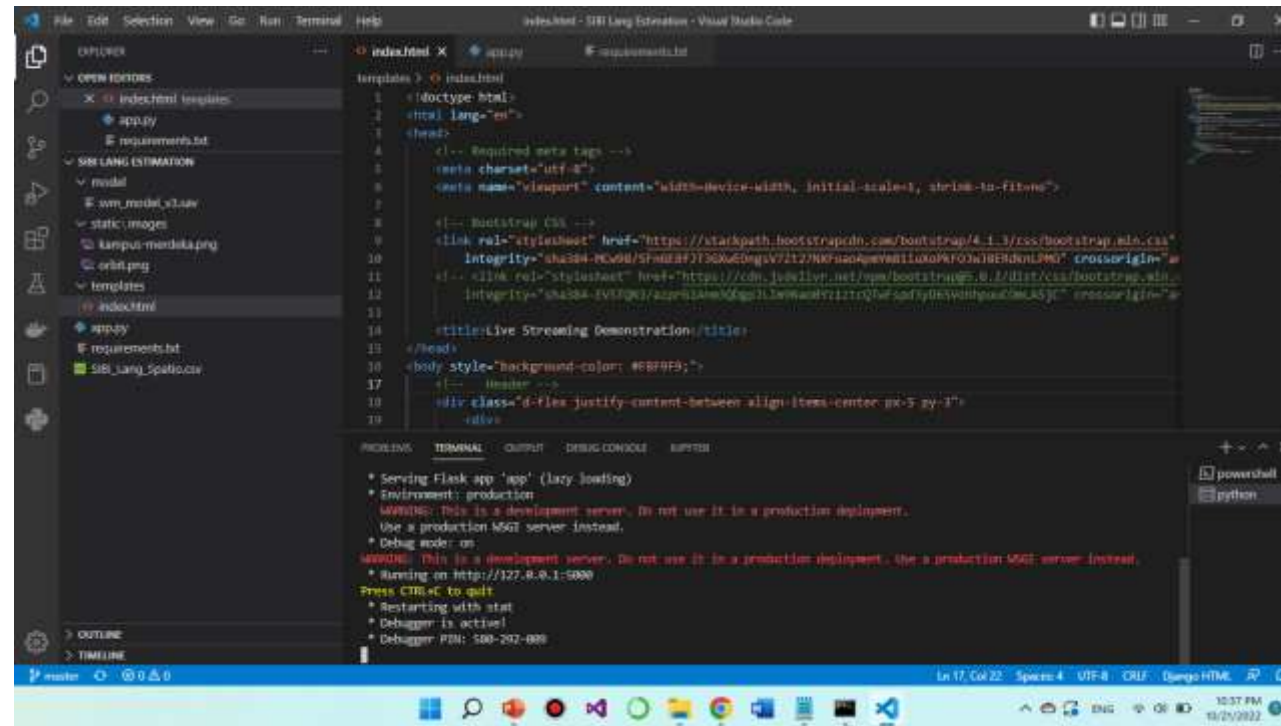
4. Buka terminal di Visual Studio Code. Setelah itu, terminal akan muncul pada bagian bawah Visual Studio Code.


```
index.html <SIBI Lang Estimation - Visual Studio Code>
1 <!doctype html>
2 <html lang="en">
3 <head>
4   <!-- Required meta tags -->
5   <meta charset="utf-8">
6   <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
7
8   <!-- Bootstrap CSS -->
9   <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min.css"
10     integrity="sha384-PmV483RWN012WVK0SUAQyV7G2GQH08Y14KK1x3nQKWZa3NKE735xjqxnkMGBVSV" crossorigin="anonymous">
11   <!-- <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.1/dist/css/bootstrap.min.css"
12     integrity="sha384-V5Z4J3xvtrwWm28N1D2f8v32034S7731e60Z8jY7lv6wVd3vFV35f2668742" crossorigin="anonymous">
13
14   <title>Live Streaming Demonstration</title>
15 </head>
16 <body style="background-color: #F8F9F9;">
17   <!-- Header -->
18   <div class="d-flex justify-content-between align-items-center px-5 py-1">
19     <div>
```

Microsoft Windows [Version 10.0.22000.1056]
(c) Microsoft Corporation. All rights reserved.

C:\Users\62877\Downloads\SIBI Lang Estimation>C:\Users\62877\anaconda3\Scripts\activate
(base) C:\Users\62877\Downloads\SIBI Lang Estimation>conda activate sibi-lang-estimation
(sibi-lang-estimation) C:\Users\62877\Downloads\SIBI Lang Estimation>conda activate sibi-lang-estimation
(sibi-lang-estimation) C:\Users\62877\Downloads\SIBI Lang Estimation>

5. Aktifkan virtual environment untuk project SIBI Lang Estimation.
Ketik perintah “conda activate sibi-lang-estimation”



The screenshot shows the Visual Studio Code interface with the SIBI Lang Estimation project open. The Explorer sidebar on the left shows the project structure, including files like `index.html`, `app.py`, and `requirements.txt`. The main editor displays the `index.html` file, which contains HTML boilerplate with Bootstrap CSS and a title "Live Streaming Demonstration". The bottom panel shows the TERMINAL output, which includes messages from Flask and Werkzeug, indicating the application is running on `http://127.0.0.1:5000`. The status bar at the bottom shows the current file is `index.html` at line 17, column 22, with UTF-8 encoding and Django HTML format.

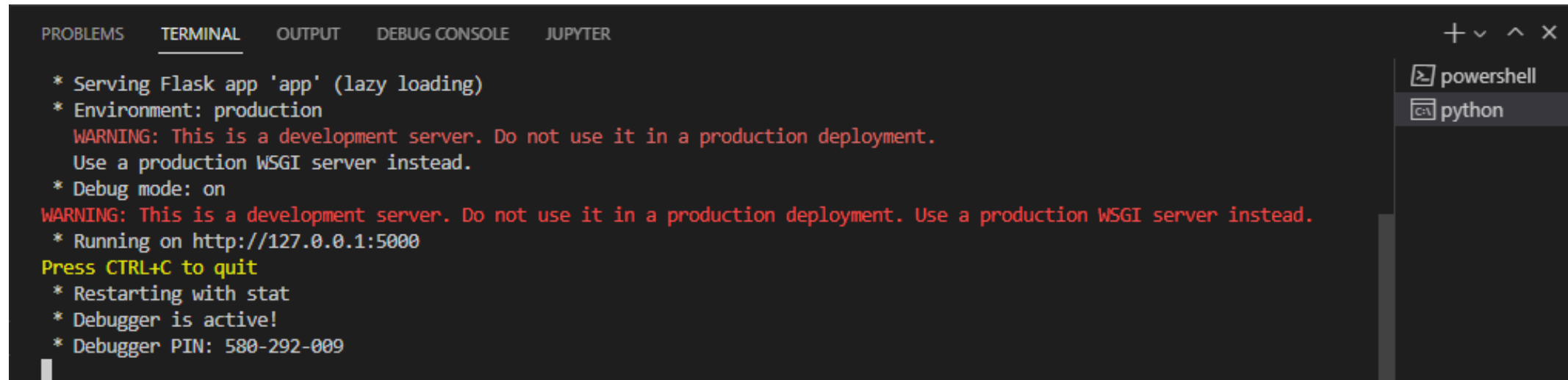
```
index.html < SIBI Lang Estimation - Visual Studio Code
File Edit Selection View Go Run Terminal Help
EXPLORER
  DEPENDENCIES
    index.html
    app.py
    requirements.txt
  SIBI LANG ESTIMATION
    model
    svm_model_v1.sav
    static/images
    karpus-model.jpg
    orbit.png
    templates
      index.html
    app.py
    requirements.txt
    SIBI_lang_Spatial.csv
  OUTLINE
  TIMELINE

index.html X app.py requirements.txt
1 <!doctype html>
2 <html lang="en">
3 <head>
4   <!-- Required meta tags -->
5   <meta charset="utf-8">
6   <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
7
8   <!-- Bootstrap CSS -->
9   <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min.css"
10     integrity="sha384-PCv98F+st0RLNW43G6Km5814368G6K864003B49B15298112304" crossorigin="anonymous">
11   <!-- <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.1/dist/css/bootstrap.min.css"
12     integrity="sha384-V8G46F04424cA73A1/386748376181858458834B4037896710468775270" crossorigin="anonymous">
13
14   <title>Live Streaming Demonstration</title>
15 </head>
16 <body style="background-color: #F8F9F9;">
17   <!-- Header -->
18   <div class="d-flex justify-content-between align-items-center px-5 py-1">
19     <div>
```

```
PROBLEMS TERMINAL OUTPUT DEBUG CONSOLE RUNNER
* 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: 500-292-000
```

Ln 17, Col 22 | Spaces: 4 | UTF-8 | CR/LF | Django HTML

6. Jalankan aplikasi SIBI Lang Estimation via terminal.

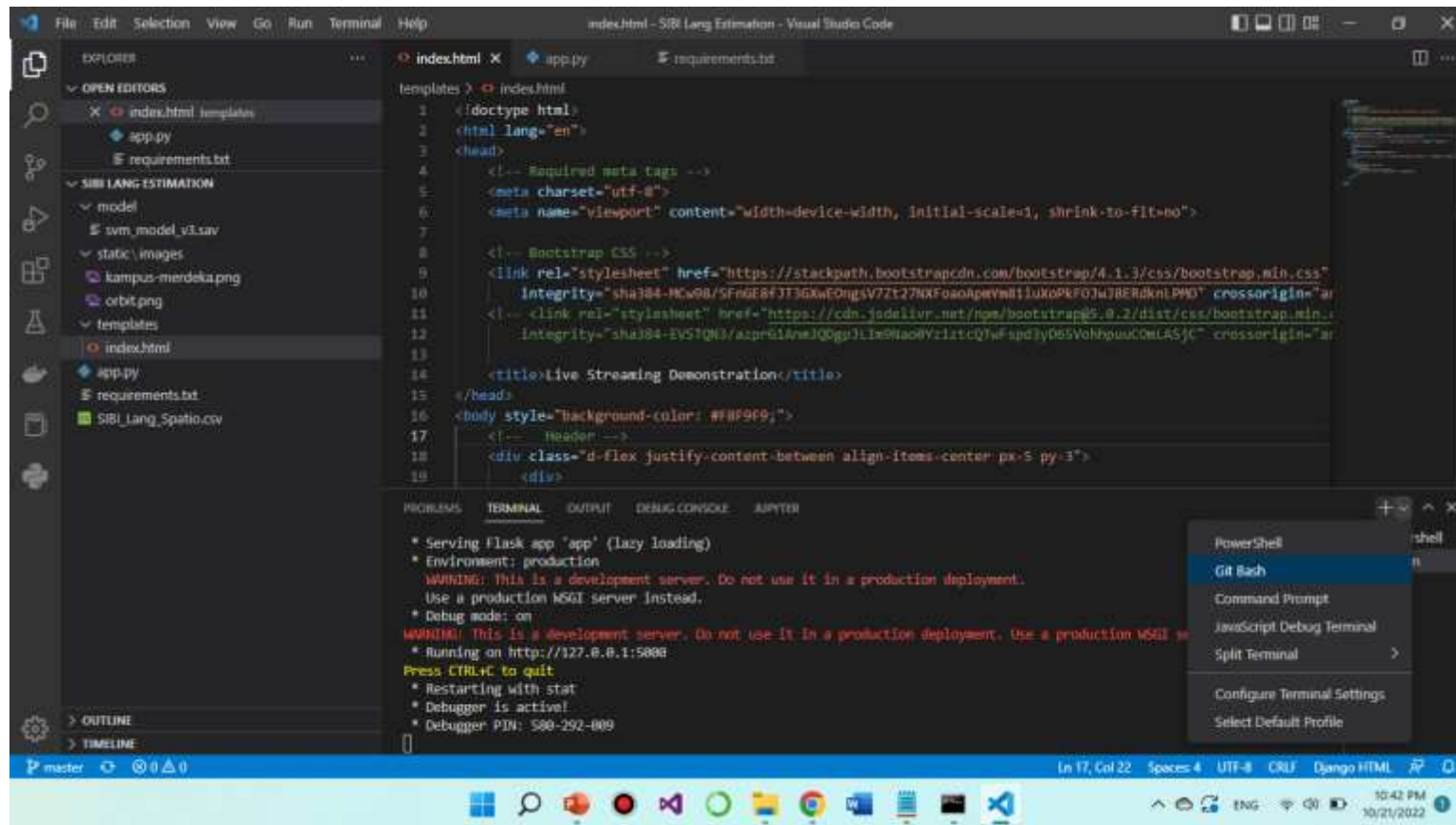


The image shows a screenshot of a Visual Studio Code terminal window. The terminal has tabs for PROBLEMS, TERMINAL, OUTPUT, DEBUG CONSOLE, and JUPYTER. The TERMINAL tab is active. The output text is as follows:

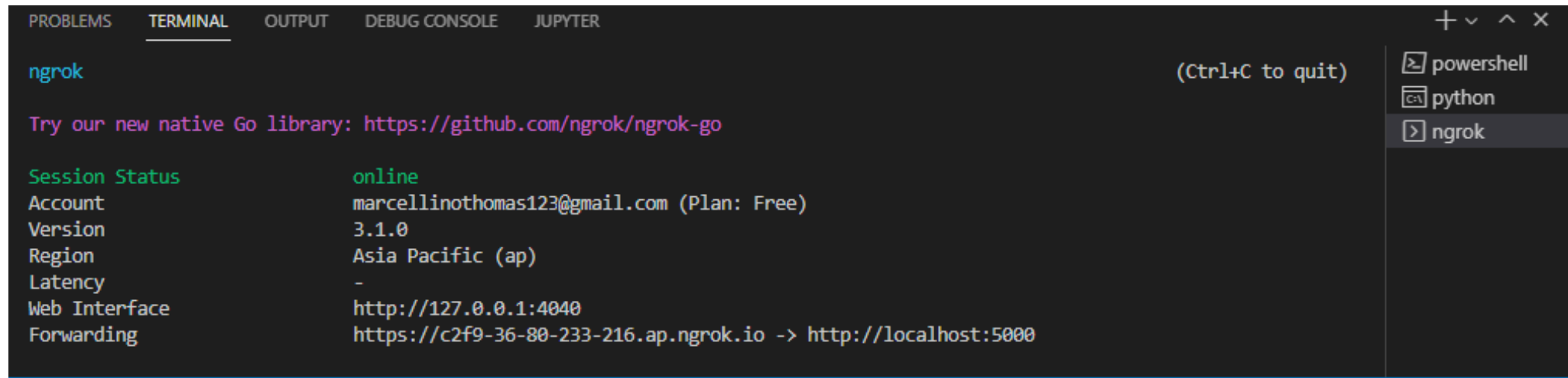
```
* Serving Flask app 'app' (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 580-292-009
```

On the right side of the terminal, there is a sidebar with two tabs: 'powershell' and 'python'. The 'python' tab is selected.

7. Perhatikan port aplikasi SIBI Lang Estimation yang muncul pada terminal. Port ini nantinya akan kita ekspos ke publik menggunakan Ngrok.. Contohnya disini adalah “5000”



8. Buka terminal baru di Visual Studio Code. Disini kita memilih Git Bash.



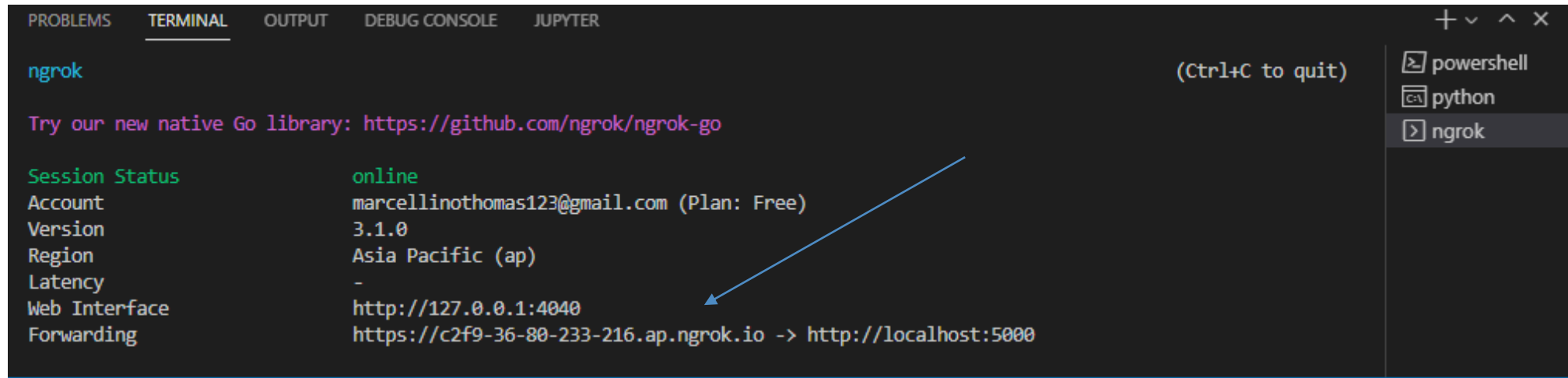
The image shows a screenshot of a Visual Studio Code terminal window. The terminal has tabs for PROBLEMS, TERMINAL, OUTPUT, DEBUG CONSOLE, and JUPYTER. The TERMINAL tab is active. The text in the terminal includes the ngrok logo, a link to the GitHub repository, and a status table. On the right side of the terminal window, there is a dropdown menu with options: powershell, python, and ngrok (which is selected).

```
ngrok

Try our new native Go library: https://github.com/ngrok/ngrok-go

Session Status      online
Account             marcellinothomas123@gmail.com (Plan: Free)
Version             3.1.0
Region              Asia Pacific (ap)
Latency              -
Web Interface        http://127.0.0.1:4040
Forwarding           https://c2f9-36-80-233-216.ap.ngrok.io -> http://localhost:5000
```

9. Jalankan Ngrok pada terminal baru menggunakan port yang sudah kita salin tadi yaitu “5000” menggunakan coding “ngrok http 5000”

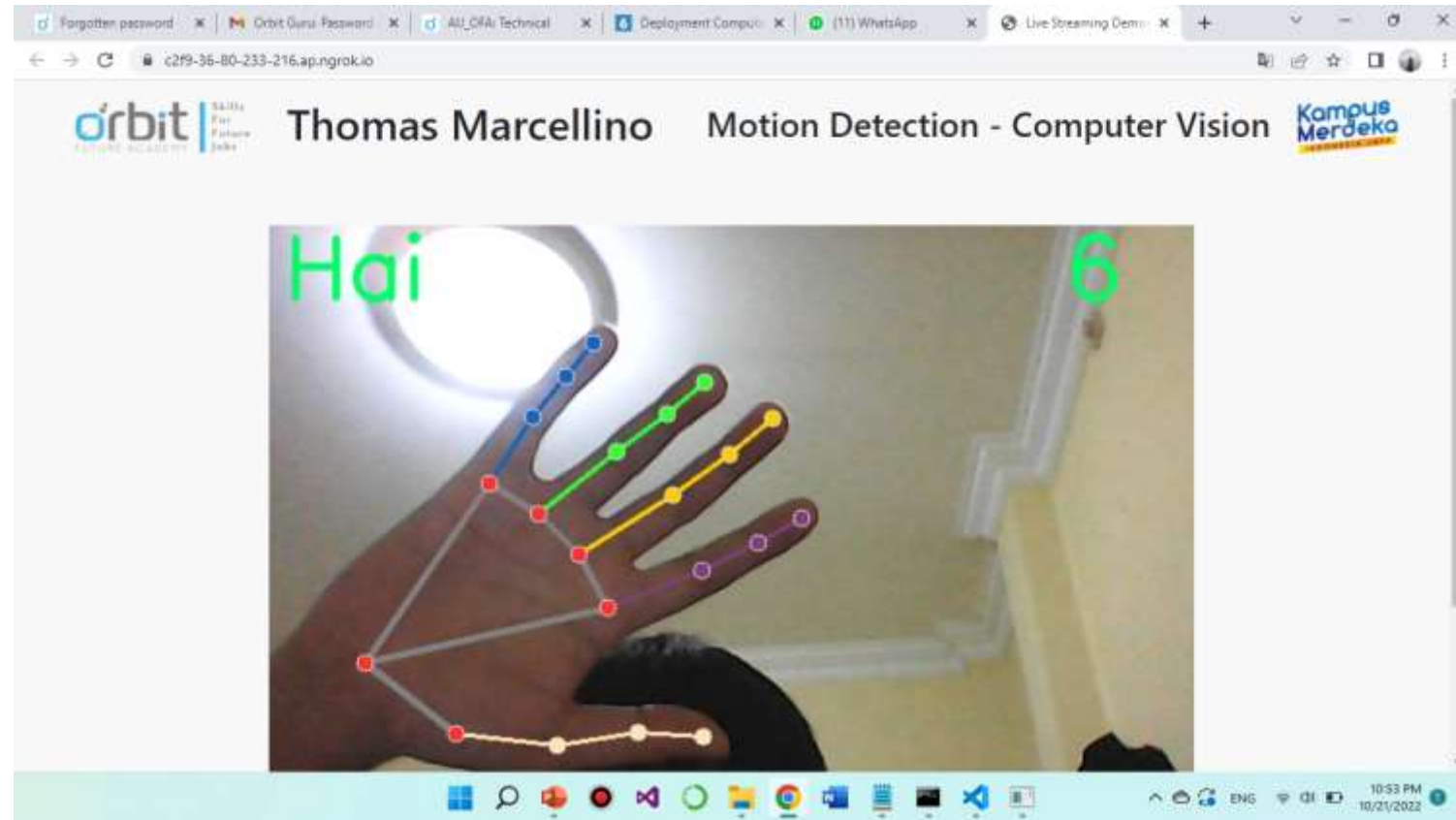


```
PROBLEMS  TERMINAL  OUTPUT  DEBUG CONSOLE  JUPYTER
ngrok                                           (Ctrl+C to quit)
Try our new native Go library: https://github.com/ngrok/ngrok-go

Session Status      online
Account             marcellinothomas123@gmail.com (Plan: Free)
Version             3.1.0
Region              Asia Pacific (ap)
Latency              -
Web Interface       http://127.0.0.1:4040
Forwarding           https://c2f9-36-80-233-216.ap.ngrok.io -> http://localhost:5000
```

The terminal window shows the ngrok service running. A blue arrow points to the public URL `https://c2f9-36-80-233-216.ap.ngrok.io` in the Forwarding section.

10. Ngrok kemudian akan men-generate link localhost kita via internet. User lain bisa menggunakan link tersebut untuk mengakses aplikasi SIBI Lang Estimation meskipun aplikasi tersebut ada di localhost.



11. User lain mengakses SIBI Lang Estimation: