**SOP for Deploying Flask Application on Azure Web Apps**

**- Soham Deshmukh**

**Objective:**

This Standard Operating Procedure (SOP) outlines the steps required to deploy a Flask application on Azure Web Apps.

**Github Link** - https://github.com/som-d/Python-Flask-App-Deploying-on-Azure-Web-Apps

**Prerequisites:**

1. Azure Account

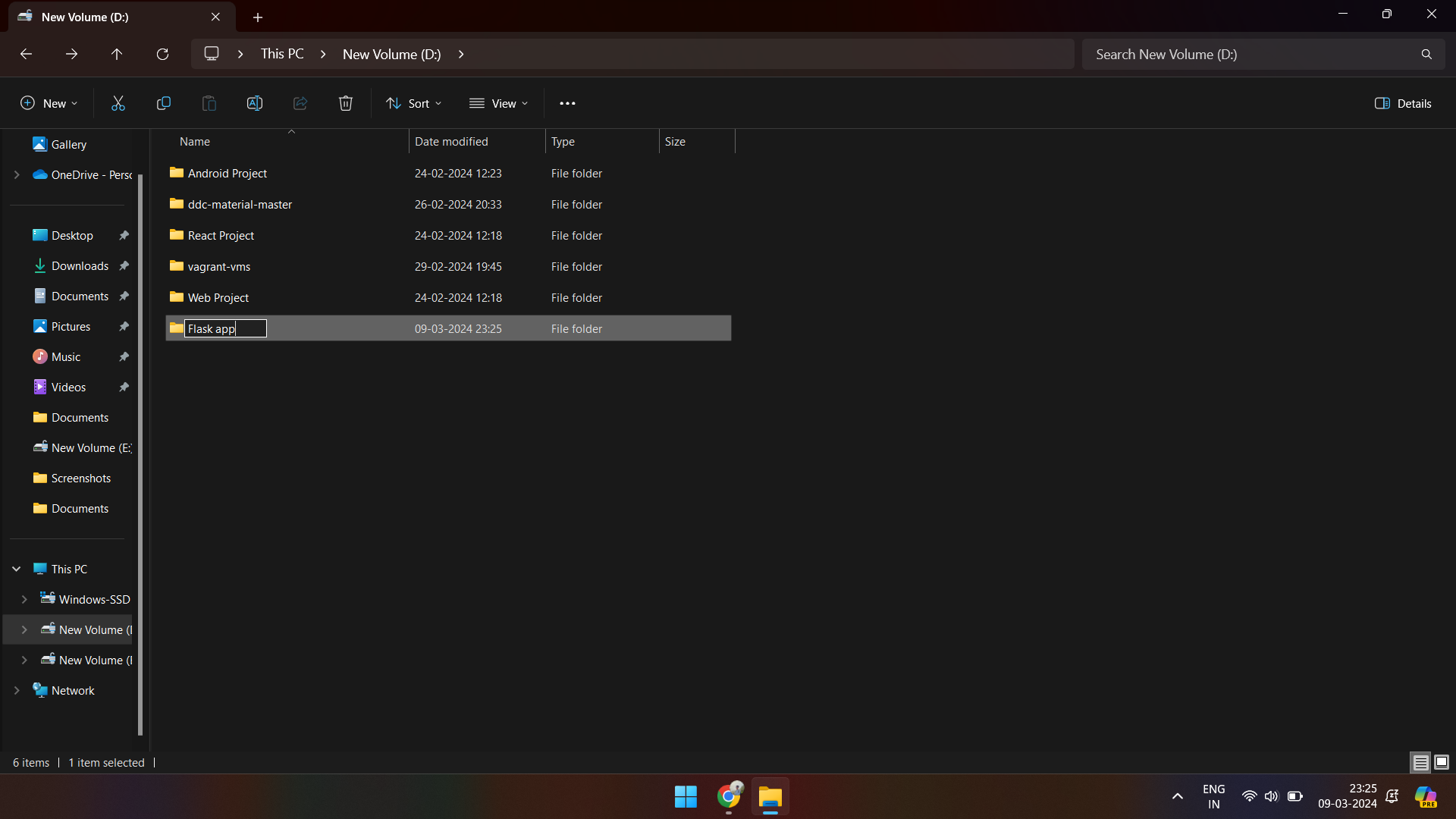
2. Github Account

3. Git: Install Git on your local machine. You can find installation instructions(<https://git-scm.com/book/en/v2/Getting-Started-Installing-Git>).

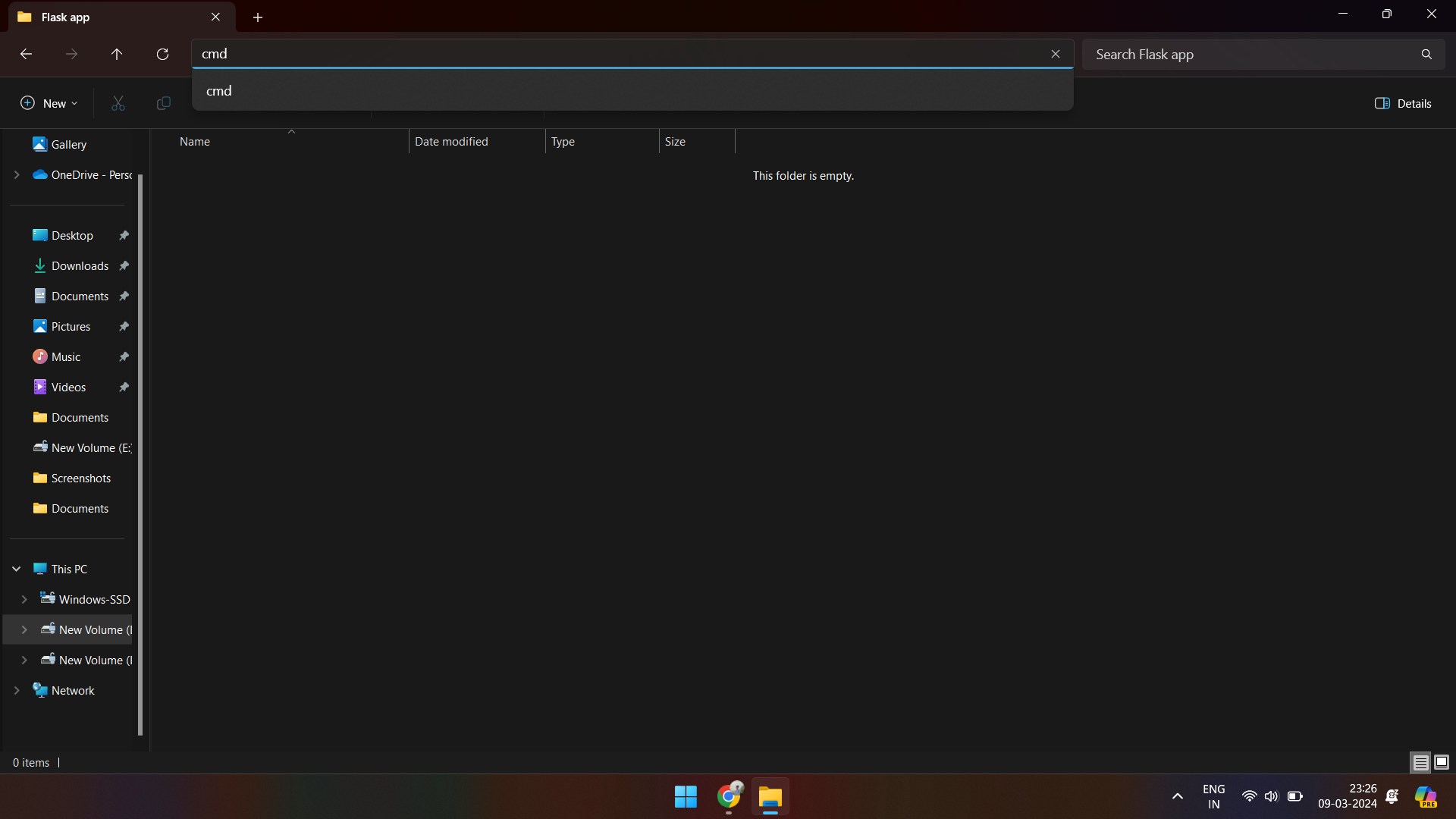
**Procedure:**

**1. Application Setup:**

1. **Creating Folder for Flask application code:**

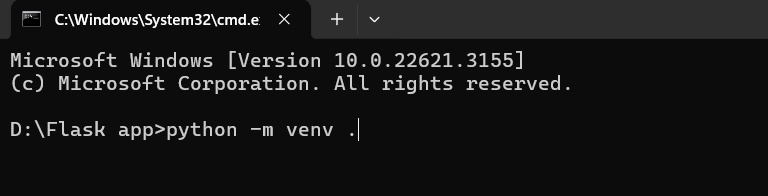


1. **Open the folder and type cmd in search field:**



1. **Creating an environment for the Flask app:**

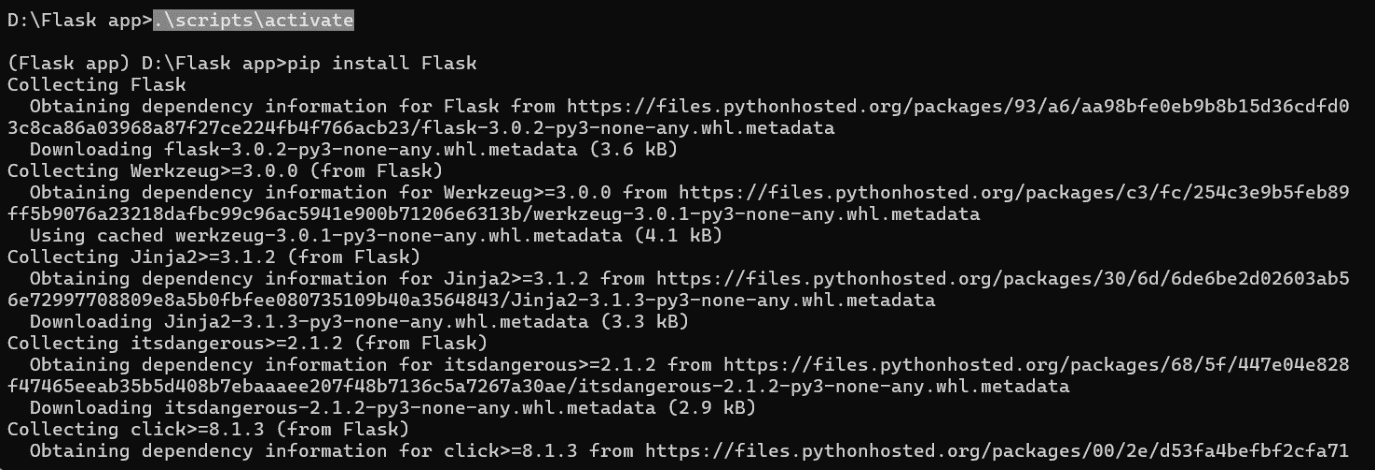
**Command : python -m venv .**



1. **Activating the Virtual Environment:**

**Command : .\scripts\activate**

**Installing Flask : pip install Flask**



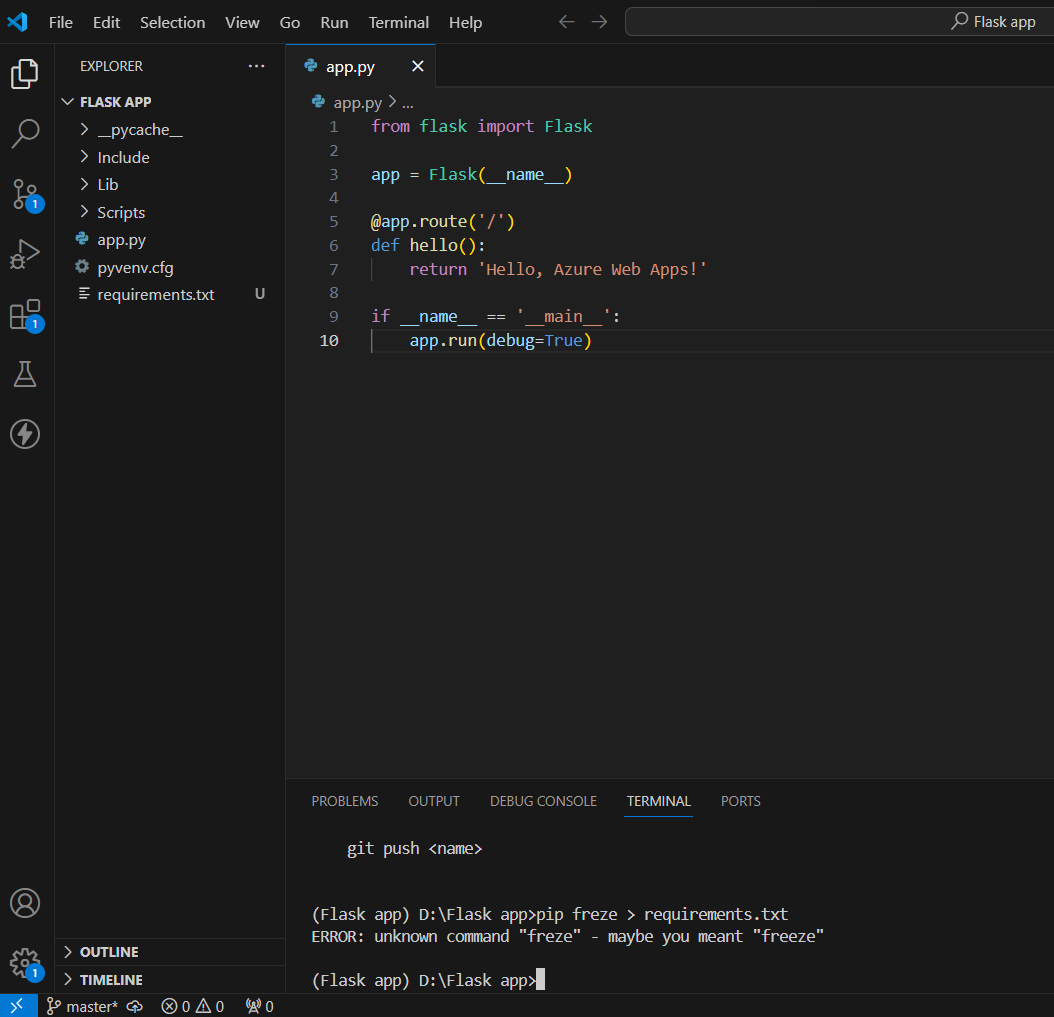
1. **Creating Requirements.txt :**

**Command : pip3 freeze > requirements.txt # Python3**

**pip freeze > requirements.txt # Python2**

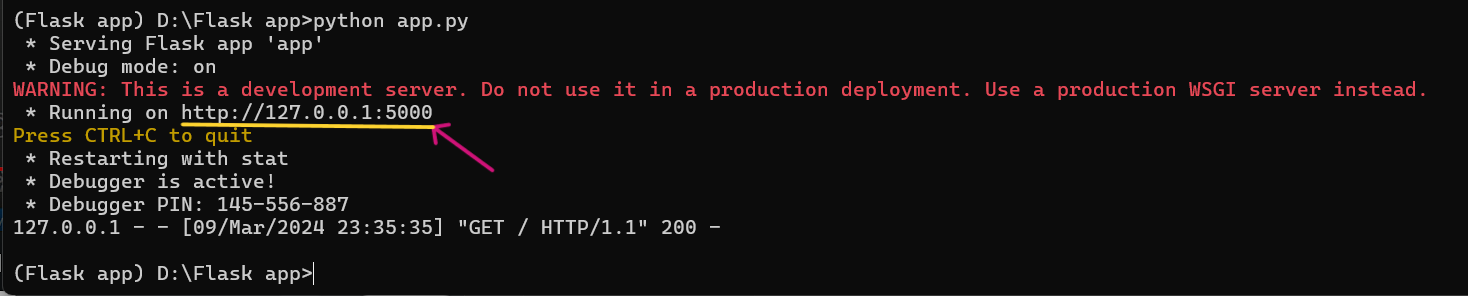
Note – in requirement.txt comment/delete: pywin32==306

1. **Creating app.py:**



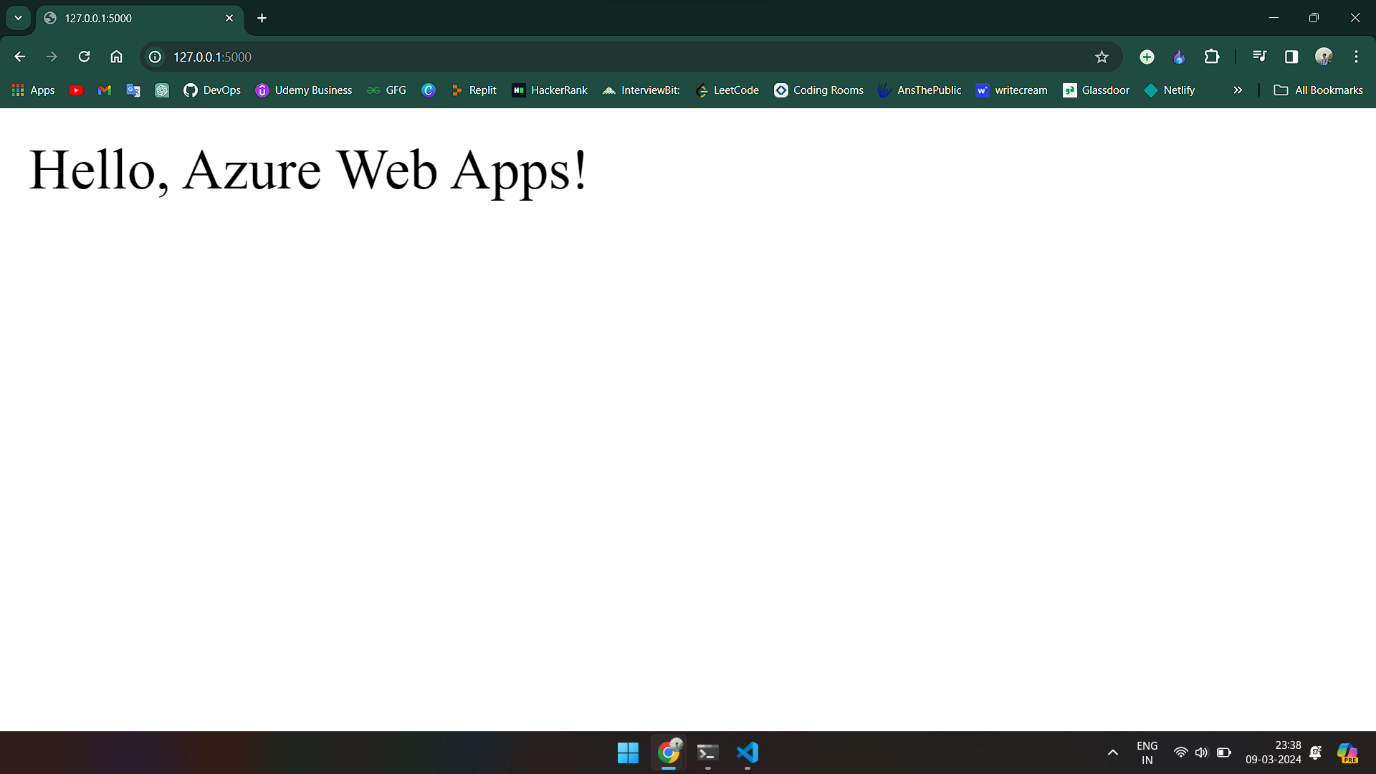
1. **Starting the server:**

**Command : python app.py**



* Copy the URL and past in browser to run Web App.

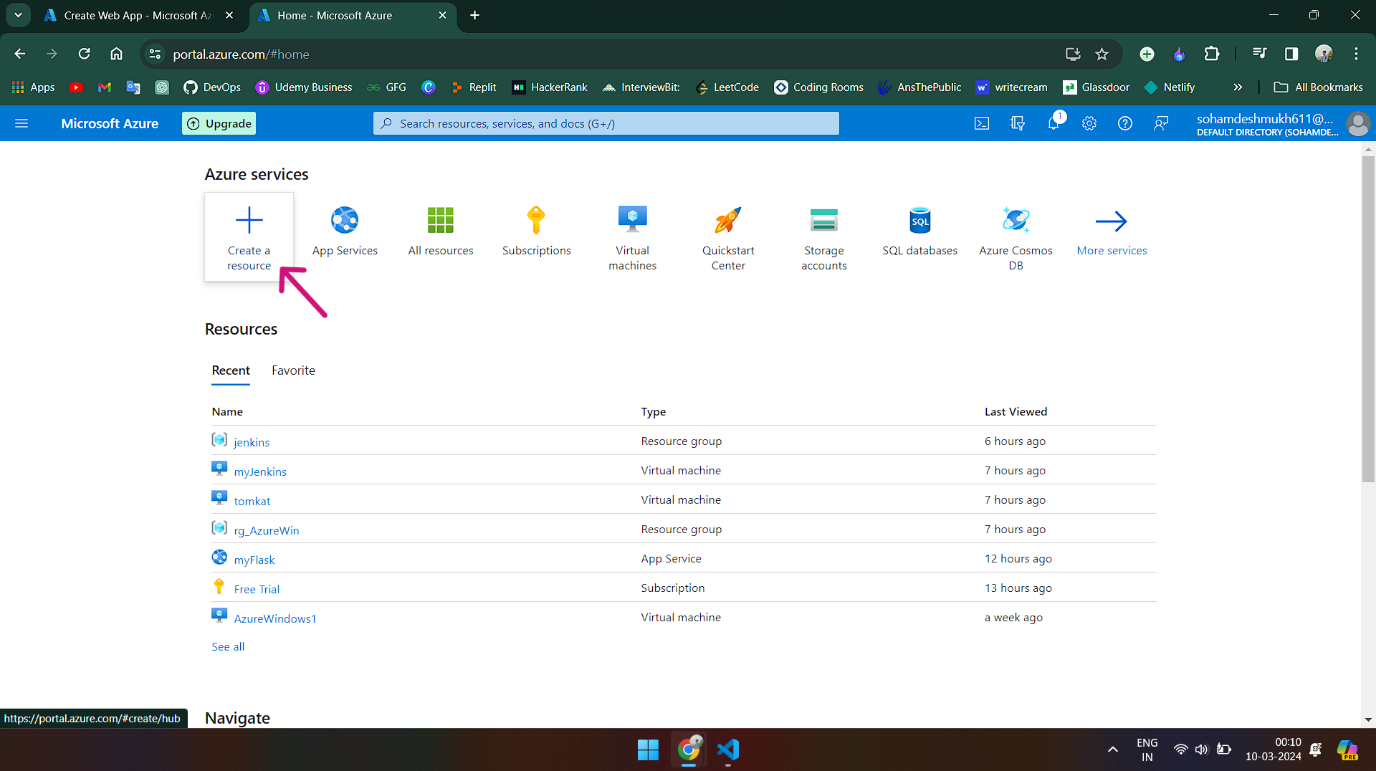
1. **Flask app loaded on local server:**



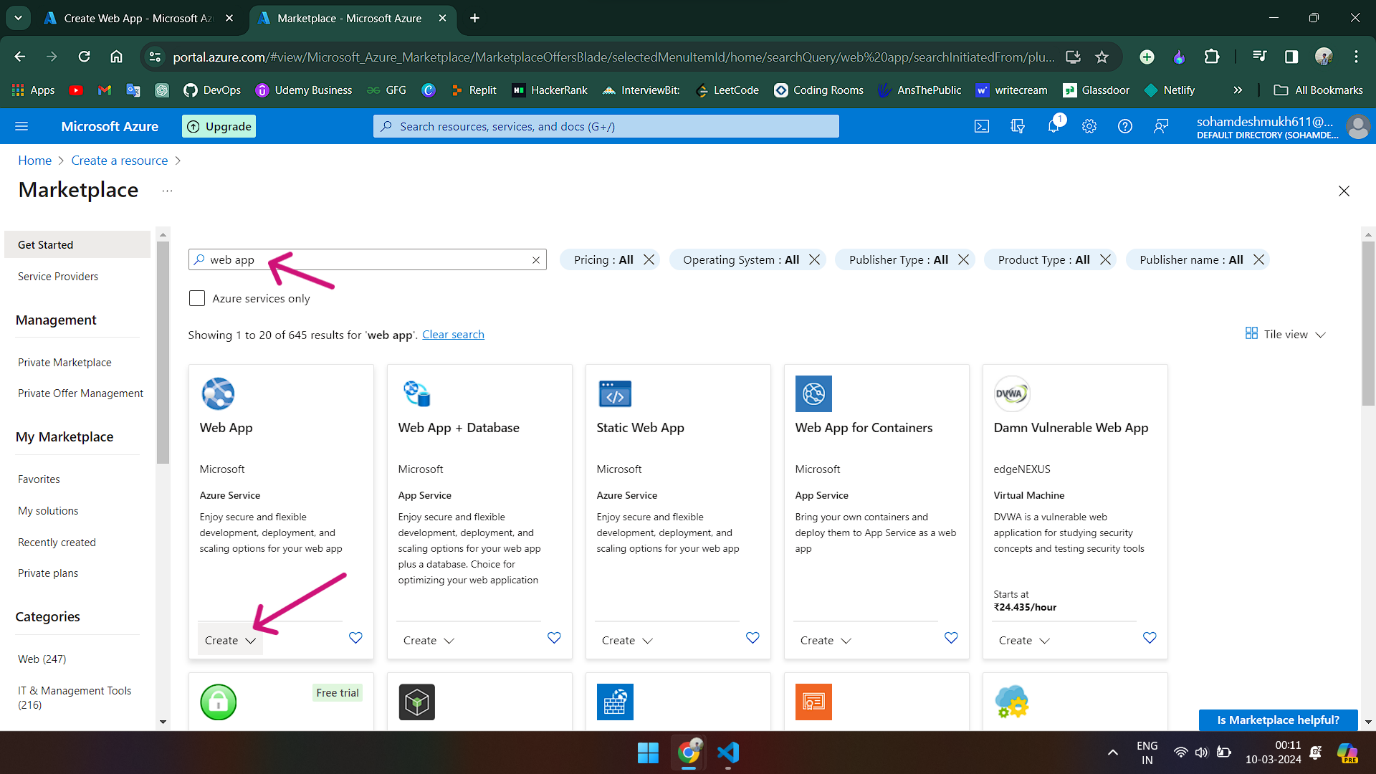
**2. Create Azure Web App:**

Create a new Azure Web App:

1. **Login to Azure and click Create a resource:**

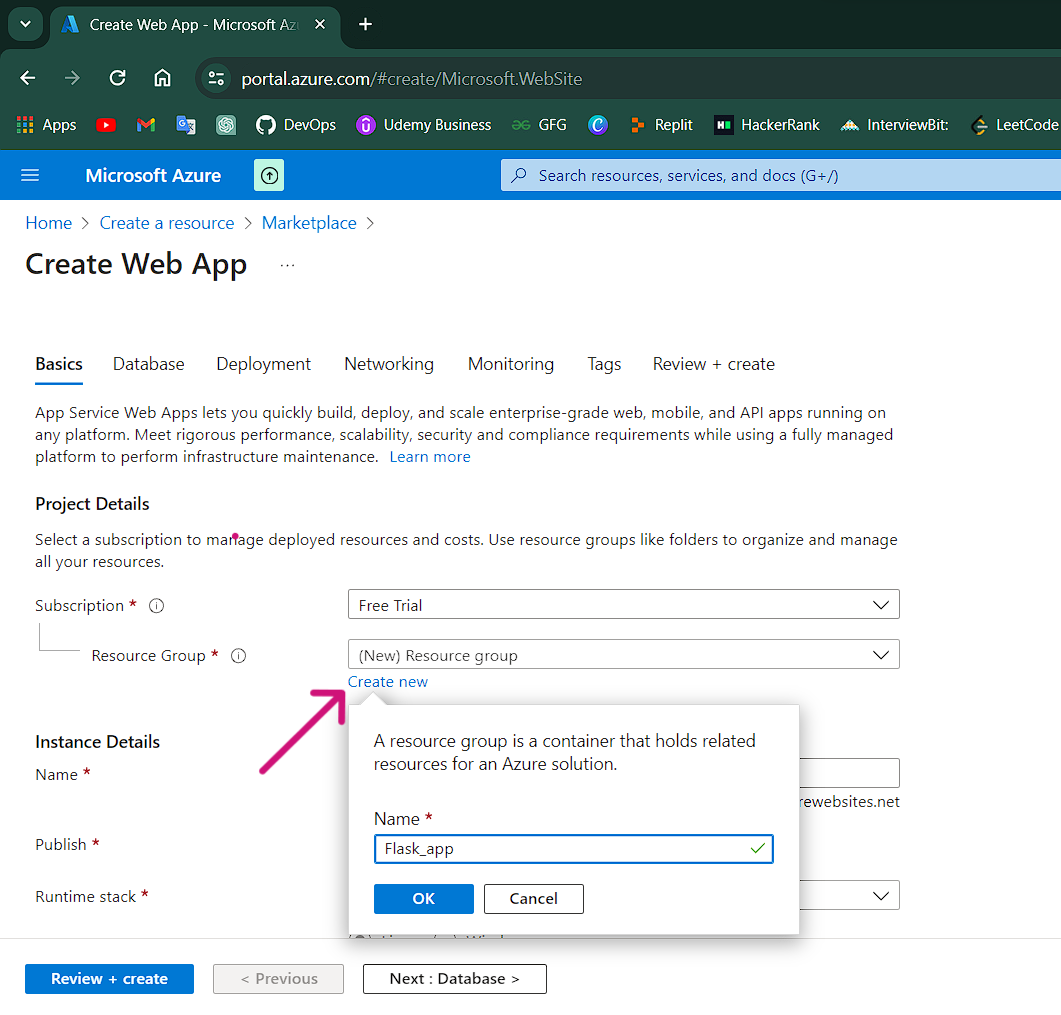


1. **Search for Web App and click Create:**

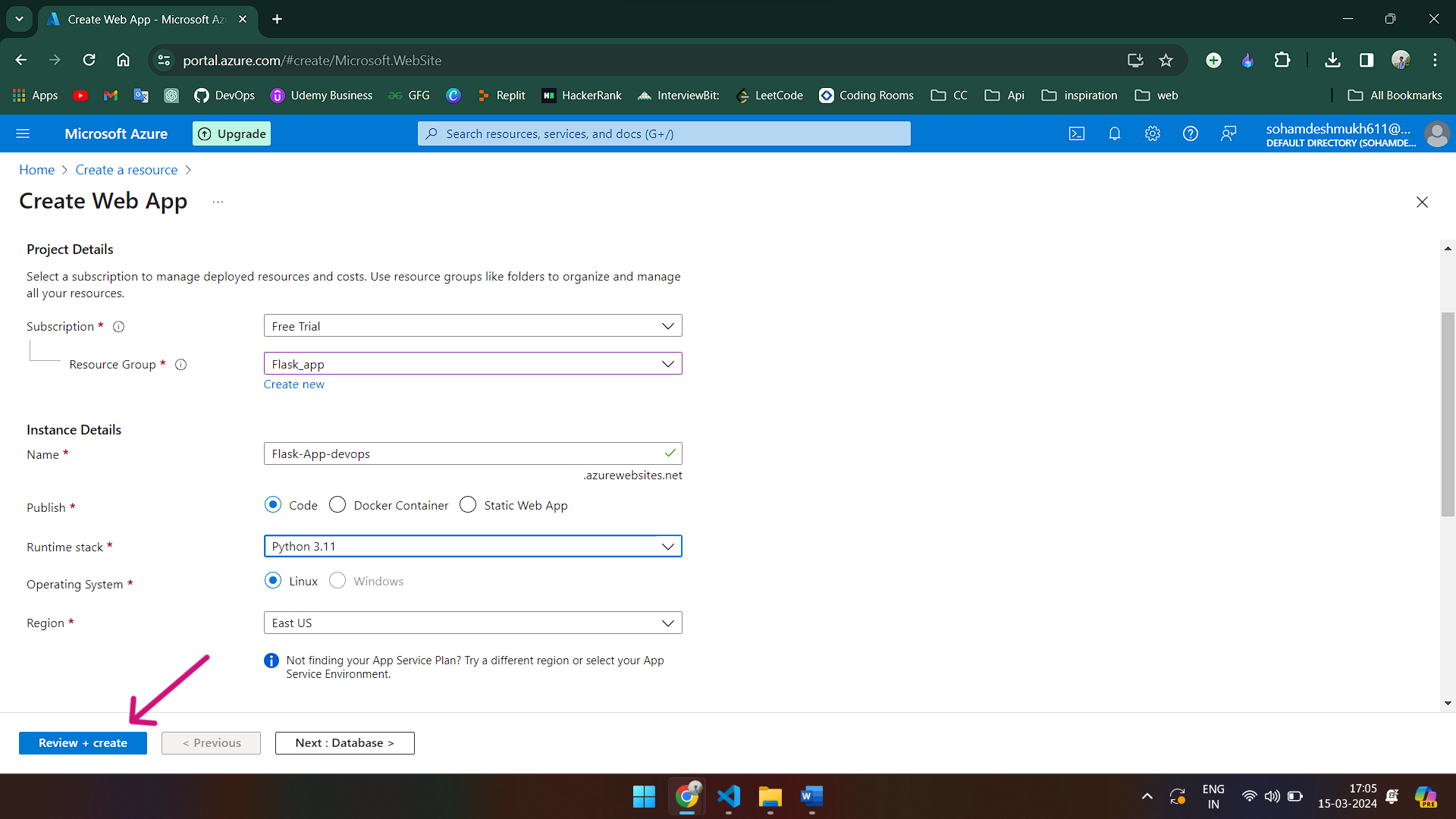


**3. Creating Resource group:**

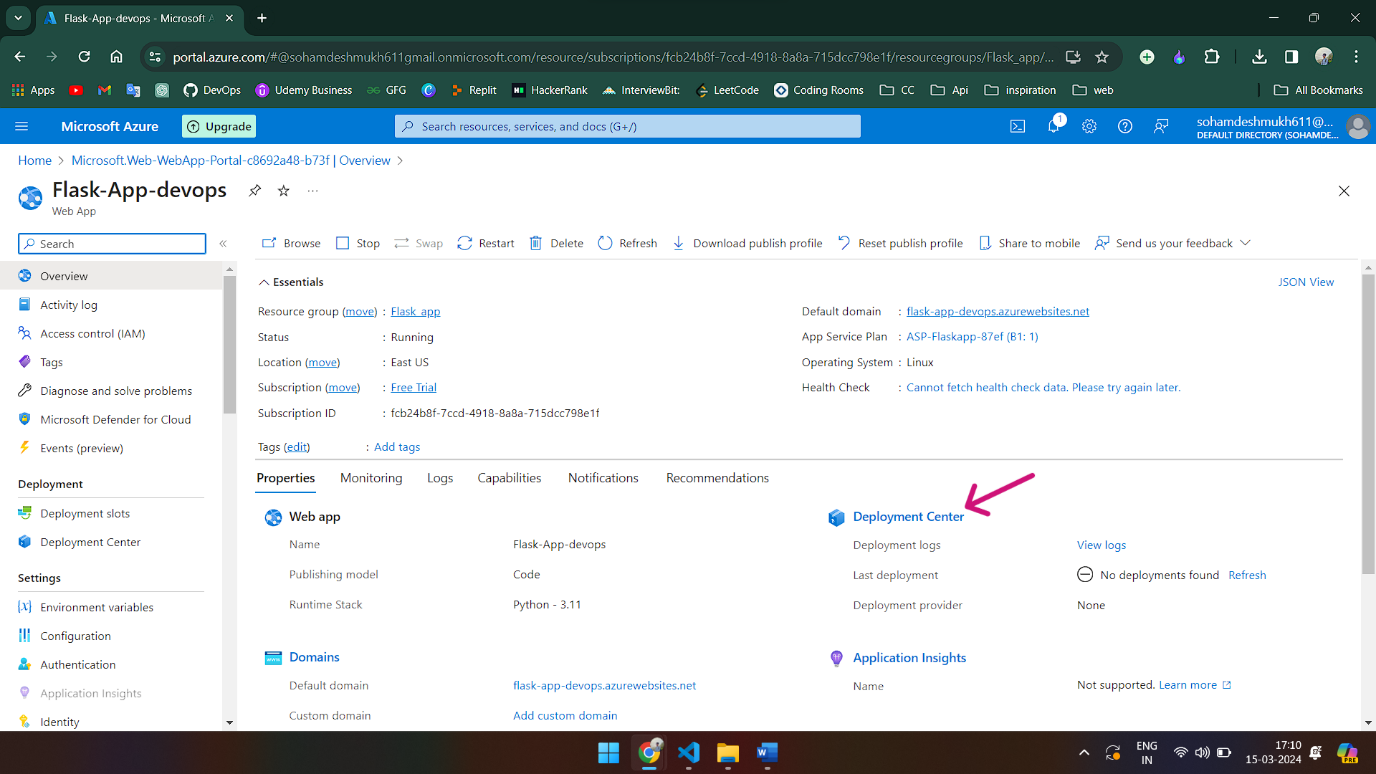
- Click Create New and name the resource group.



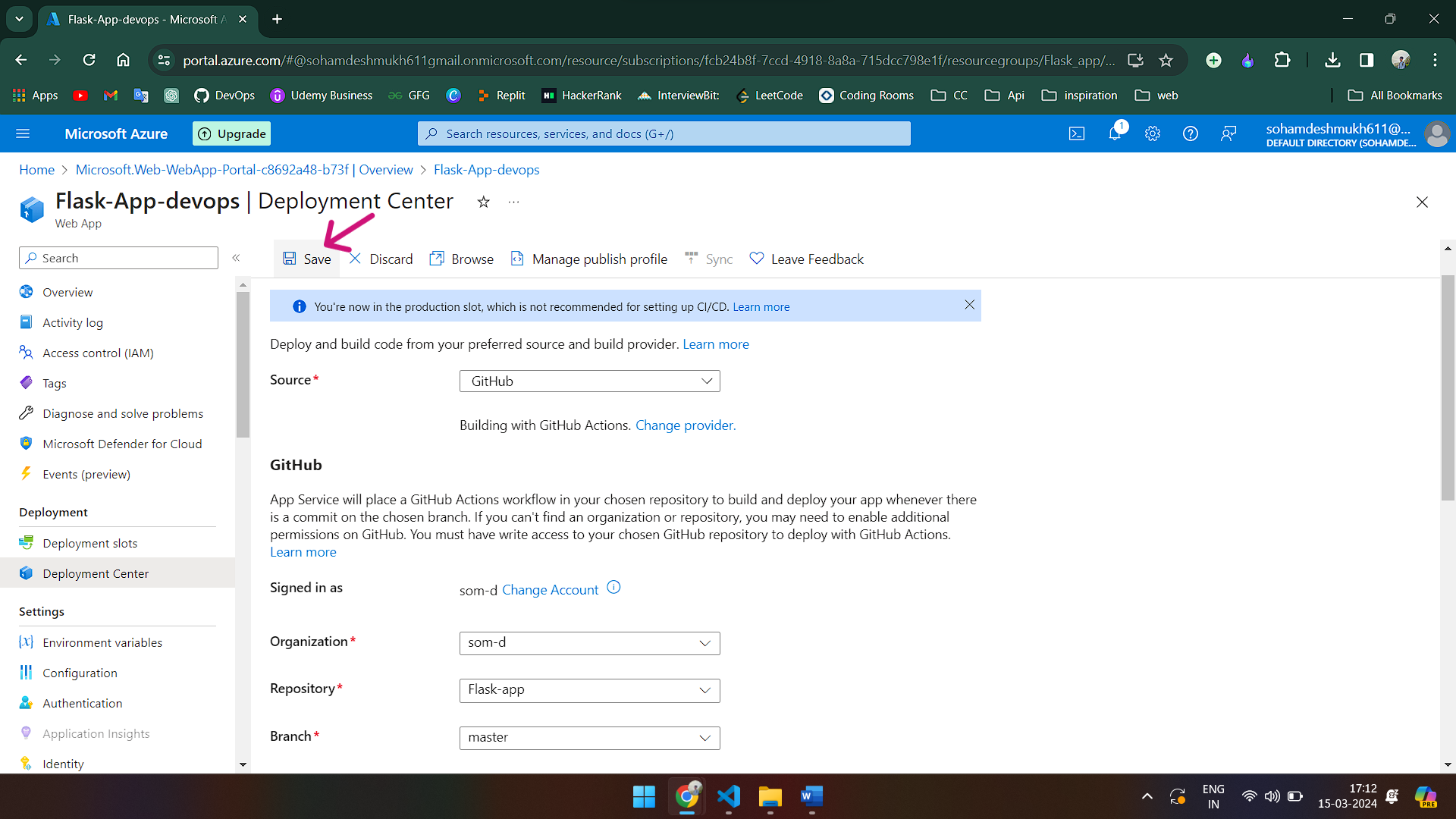
1. **Fill in all required fields and click Create:**



**5. After creating the web app, click Deploy Center:**

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**6. Fill in all required fields and click Save:**

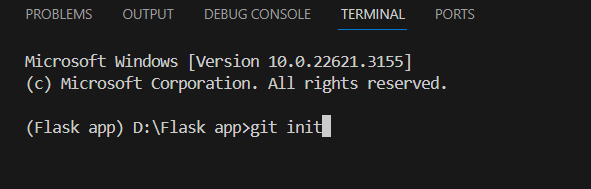


**3.Azure Web App Deployment:**

Deploy the application to the Azure Web App using Git:

1. **Creating an empty Git repository**

Command : git init

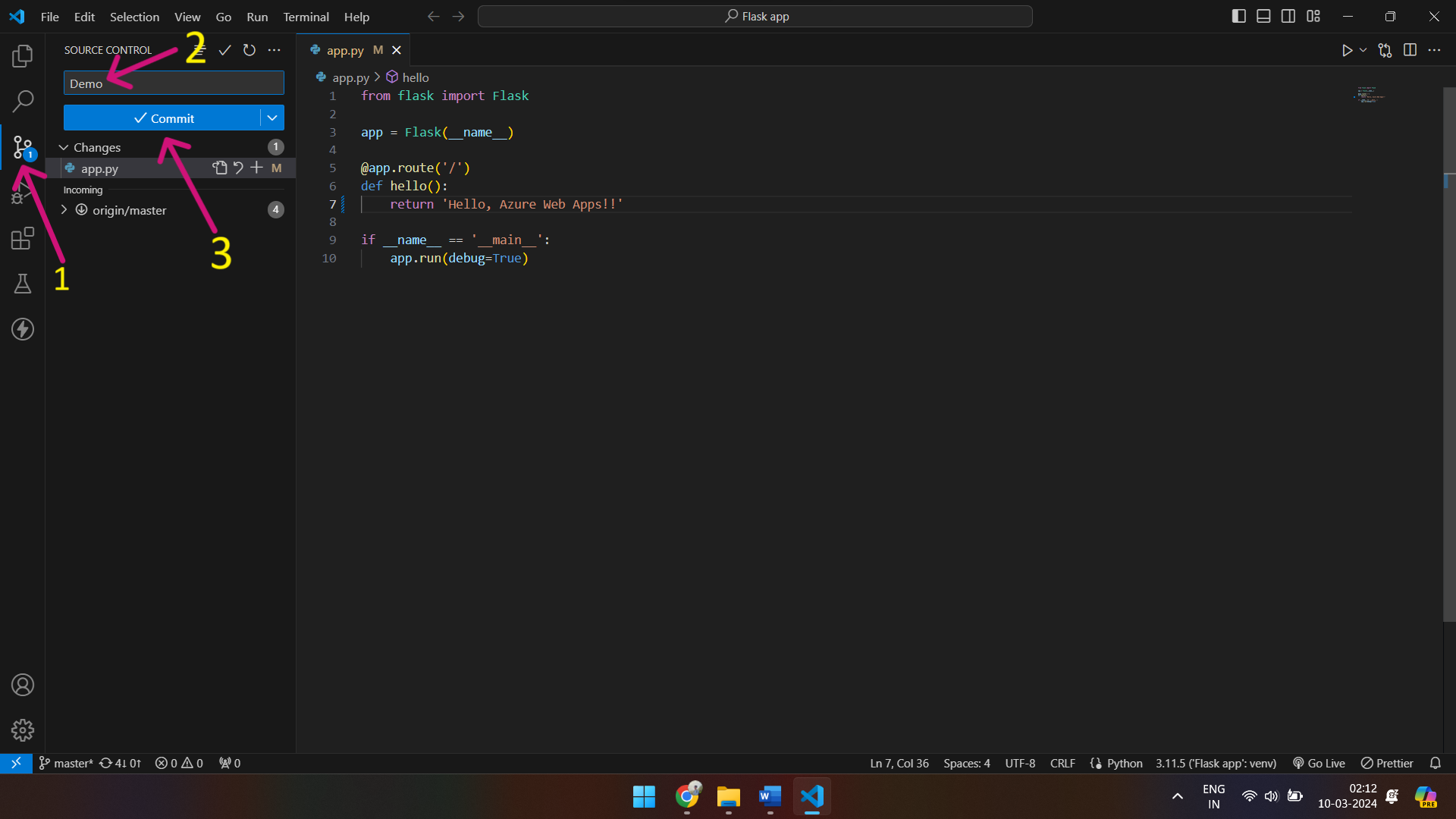
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1. **Commit by using GUI:**

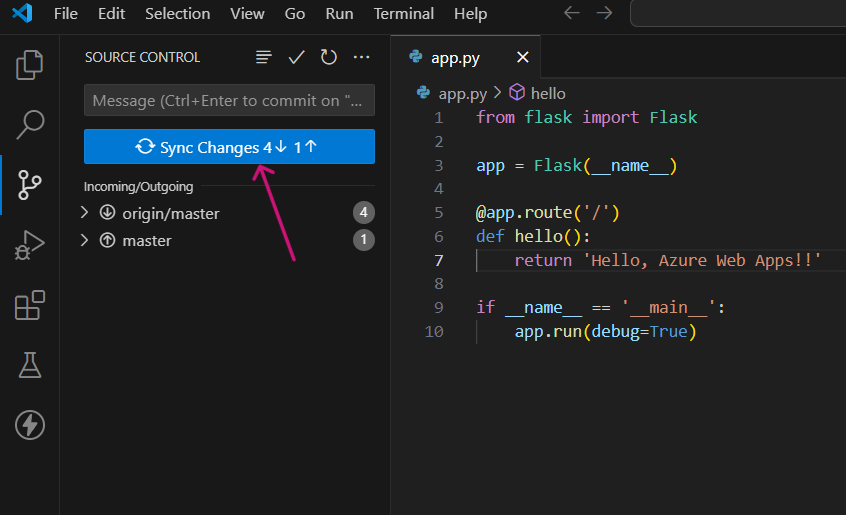
Arrow 1: Click on Source Control.

Arrow 2: Add a comment.

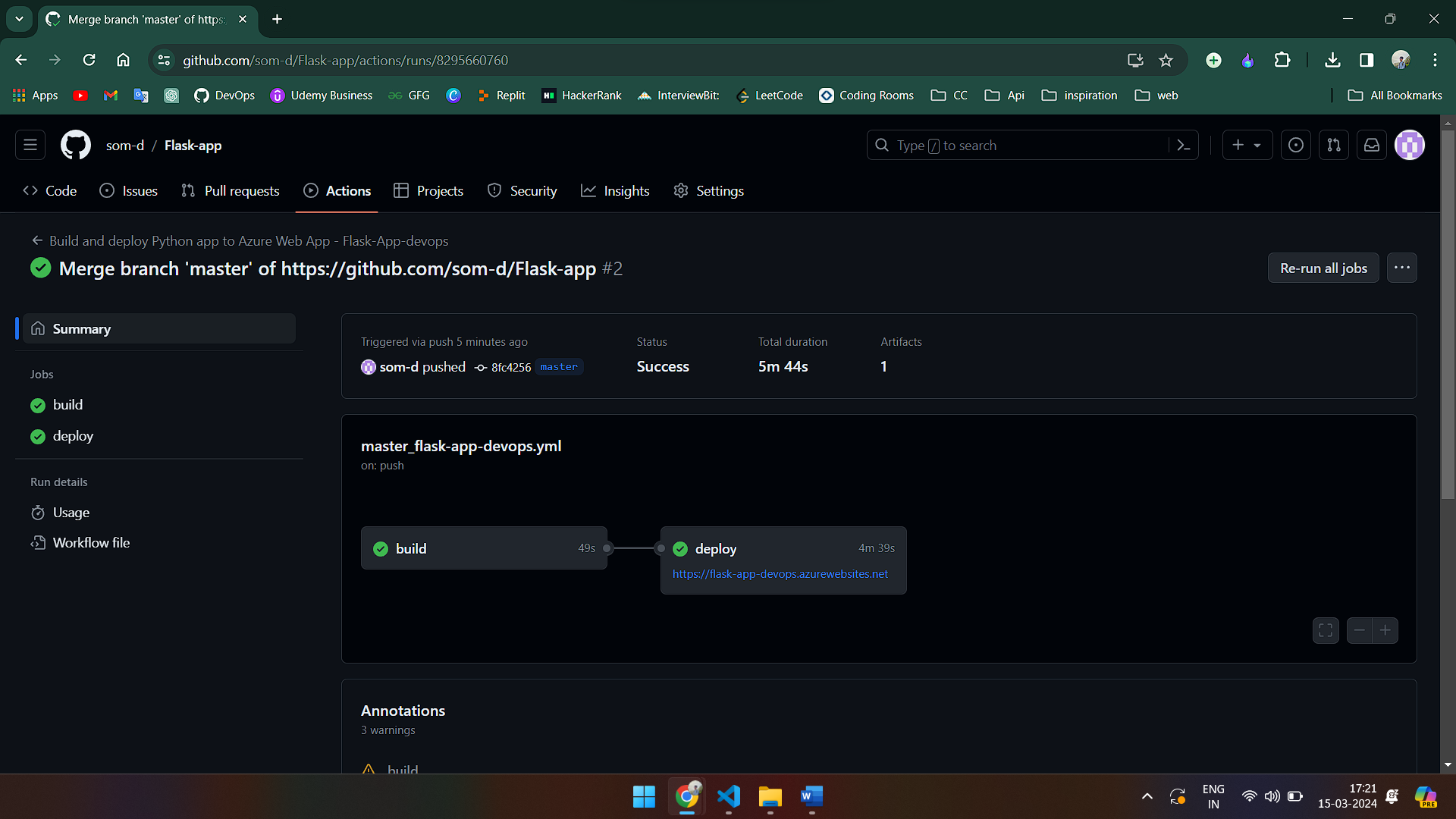
Arrow 3: Click Commit.



1. **After that click Sync Changes:**

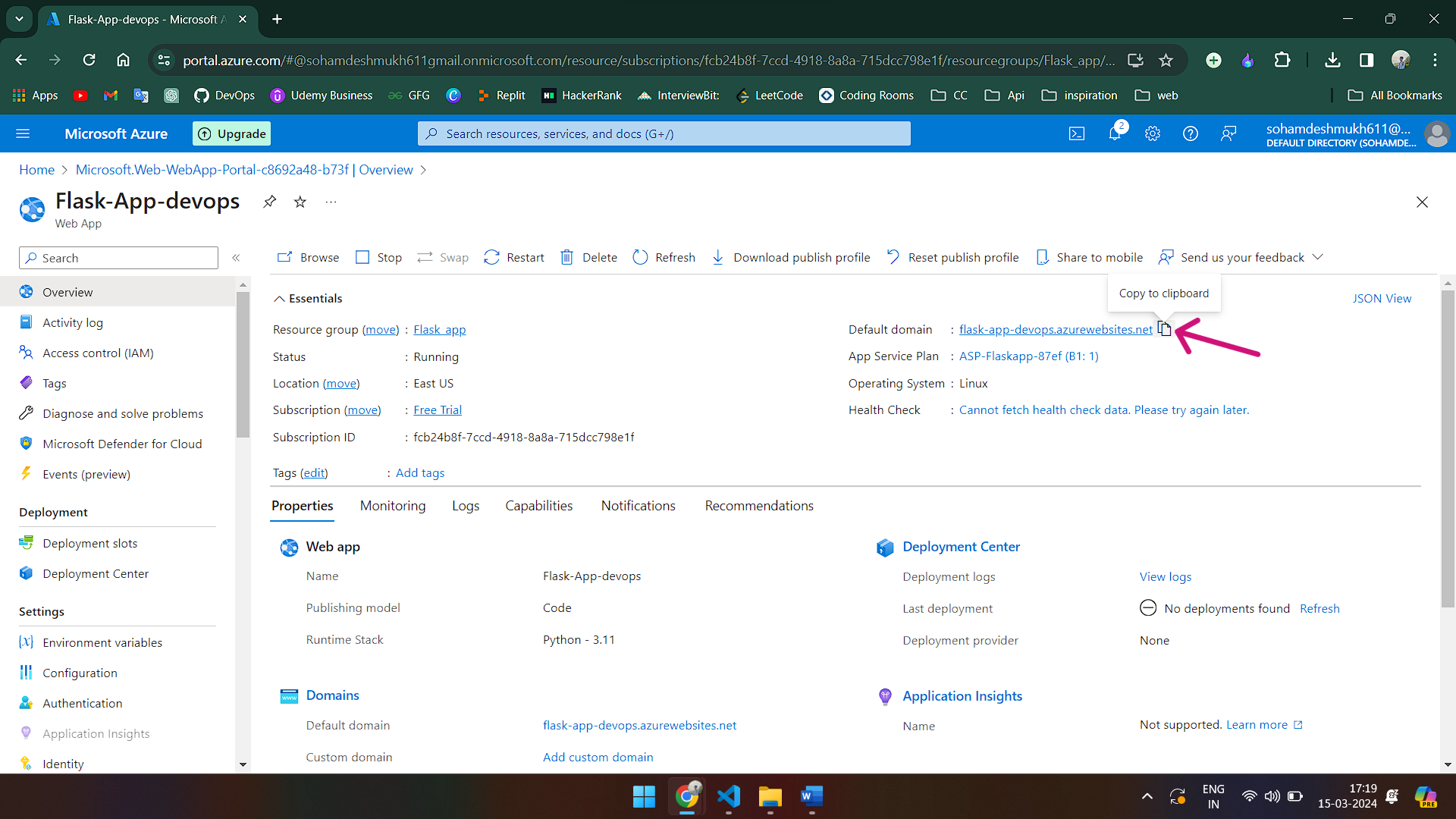


1. **Go to your Git repository and click on Actions to see all your workflows:**

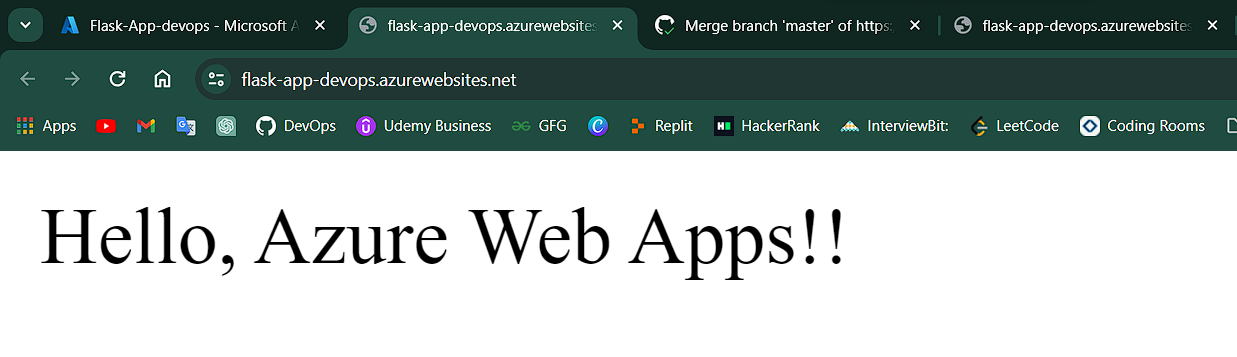


**4. Testing:**

1. **Once the deployment is complete, access the deployed application using the URL provided by Azure Web Apps.**



1. **You should receive a response "Hello, Azure Web Apps!" indicating that the application is running successfully.**



**Contributors:**

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**Contact Information:**

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