

# DEPLOYMENT OF APP IN IBM CLOUD

## Containerize the App

**Team ID : PNT2022TMID43624**

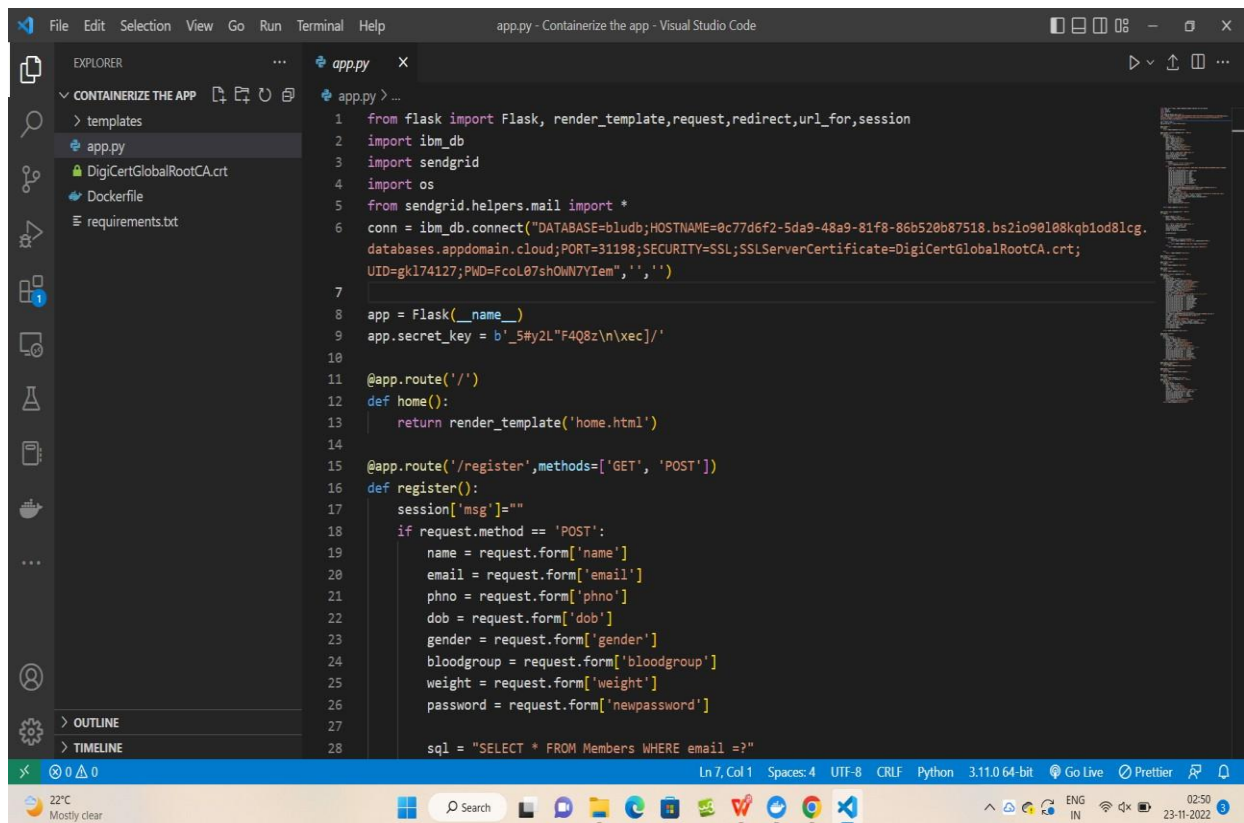
**Team Leader : Rajasubhiksha P**

**Team member : Vishnu K M**

**Team member : Varun N**

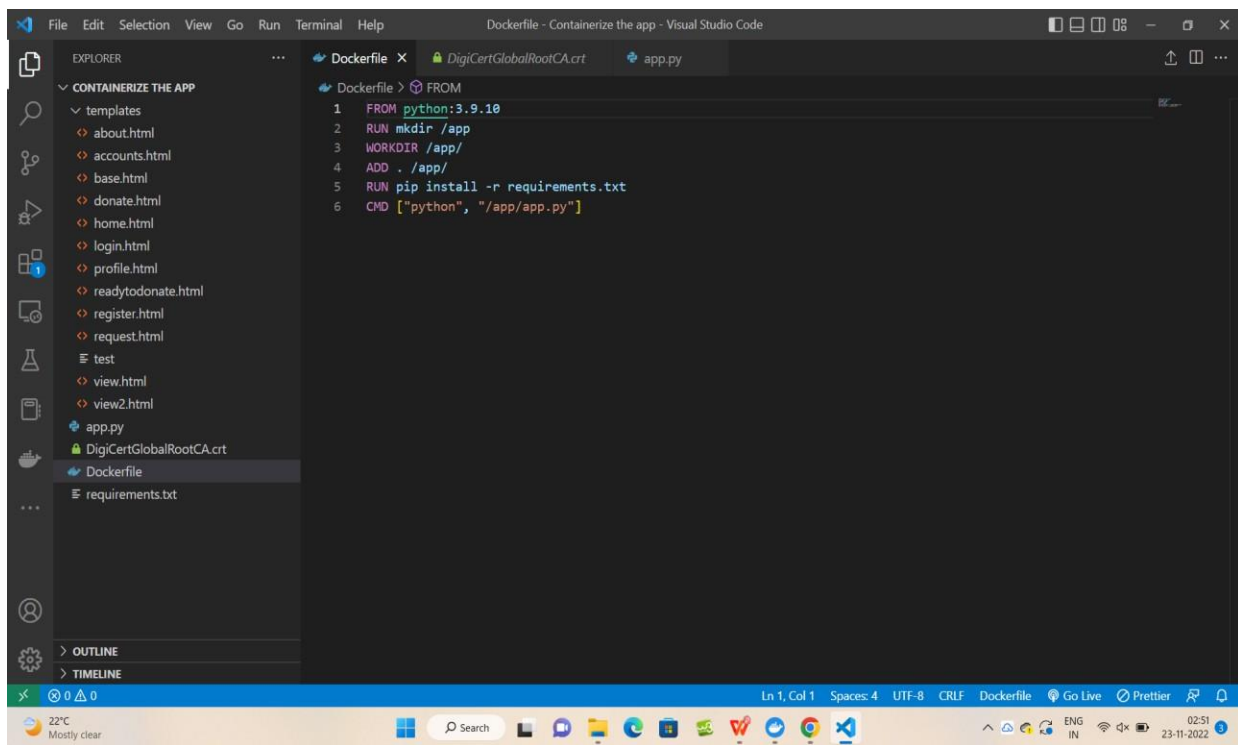
**Team member : Malavika K P**

- CREATE A FLASK APP FOR PLASMA DONATION AND ADD DOCKER FILE AND NECESSARY REQUIREMENTS

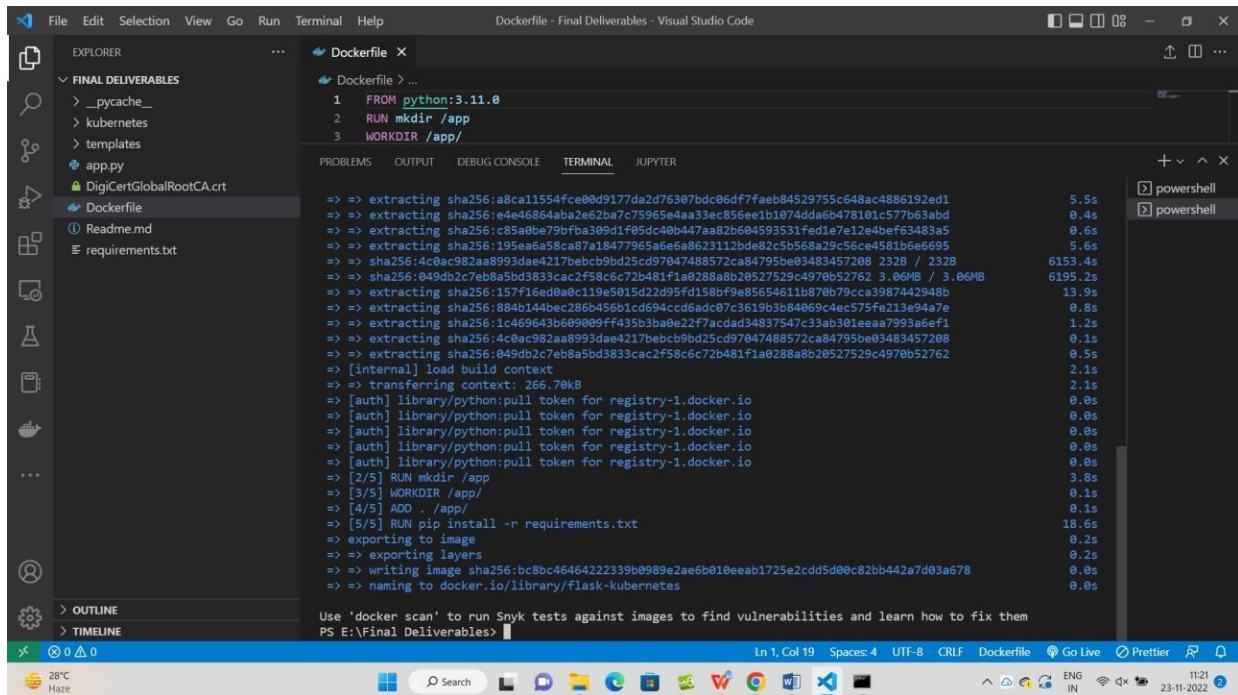


The screenshot displays the Visual Studio Code interface with a project named 'CONTAINERIZE THE APP'. The Explorer sidebar on the left shows the project structure, including a 'templates' folder, 'app.py', 'Dockerfile', and 'requirements.txt'. The main editor window shows the code for 'app.py', which is a Flask application. The code includes imports for Flask, IBM DB, SendGrid, and OS. It defines a database connection, initializes the Flask app with a secret key, and sets up two routes: a home route and a register route. The register route handles POST requests and stores user information in a database. The status bar at the bottom indicates the file is at line 7, column 1, using UTF-8 encoding and CRLF line endings, with Python 3.11.0 64-bit as the interpreter.

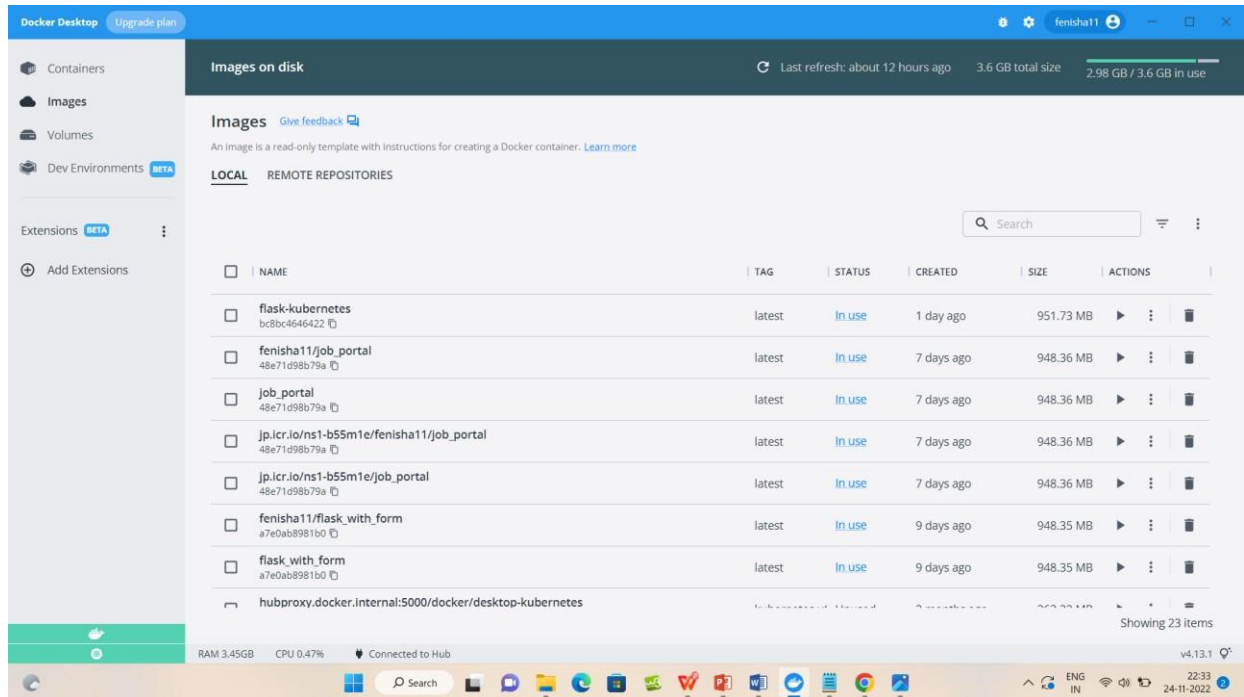
```
1 from flask import Flask, render_template, request, redirect, url_for, session
2 import ibm_db
3 import sendgrid
4 import os
5 from sendgrid.helpers.mail import *
6 conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=0c77d6f2-5da9-48a9-81f8-86b520b87518.bs2io90l08kqb1od8lcg.
databases.appdomain.cloud;PORT=31198;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;
UID=gk174127;PWD=Fcol07sh0wN7YIem','','')
7
8 app = Flask(__name__)
9 app.secret_key = b'_5#y2L"F4Q8z\n\ec/'
10
11 @app.route('/')
12 def home():
13     return render_template('home.html')
14
15 @app.route('/register', methods=['GET', 'POST'])
16 def register():
17     session['msg']=""
18     if request.method == 'POST':
19         name = request.form['name']
20         email = request.form['email']
21         phno = request.form['phno']
22         dob = request.form['dob']
23         gender = request.form['gender']
24         bloodgroup = request.form['bloodgroup']
25         weight = request.form['weight']
26         password = request.form['newpassword']
27
28         sql = "SELECT * FROM Members WHERE email =?"
```



- BUILD A DOCKER IMAGE IN DOCKER DESKTOP FOR FLASK KUBERNETES USING CMD



- FLASK KUBERNETES IMAGE IN DOCKER CONTAINER



**TASK COMPLETED SUCCESSFULLY!**