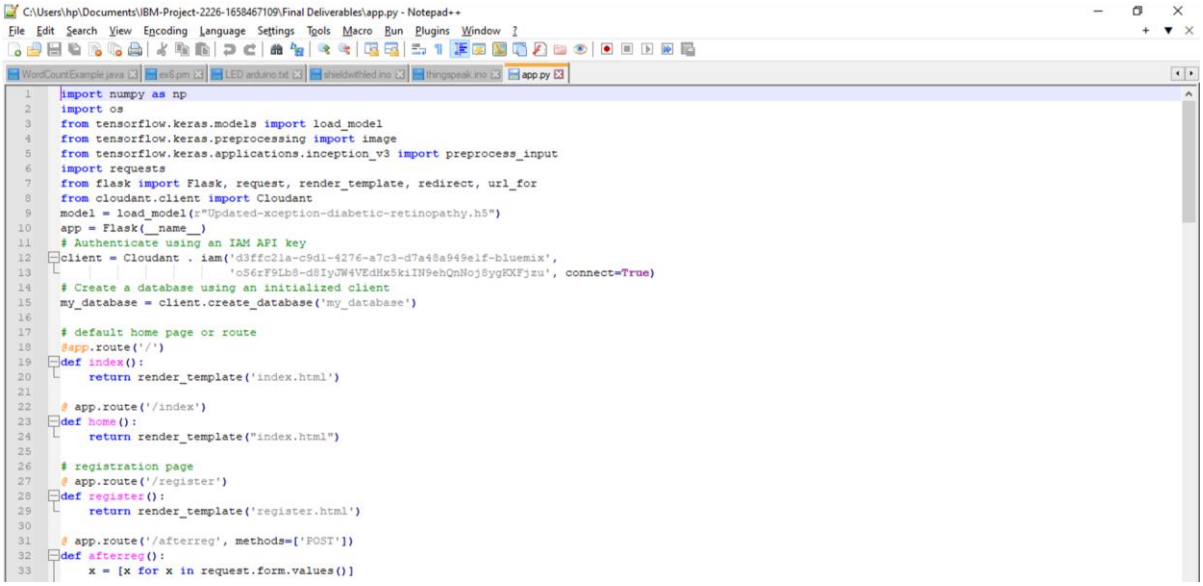
BUILD PYTHON CODE

Building python code



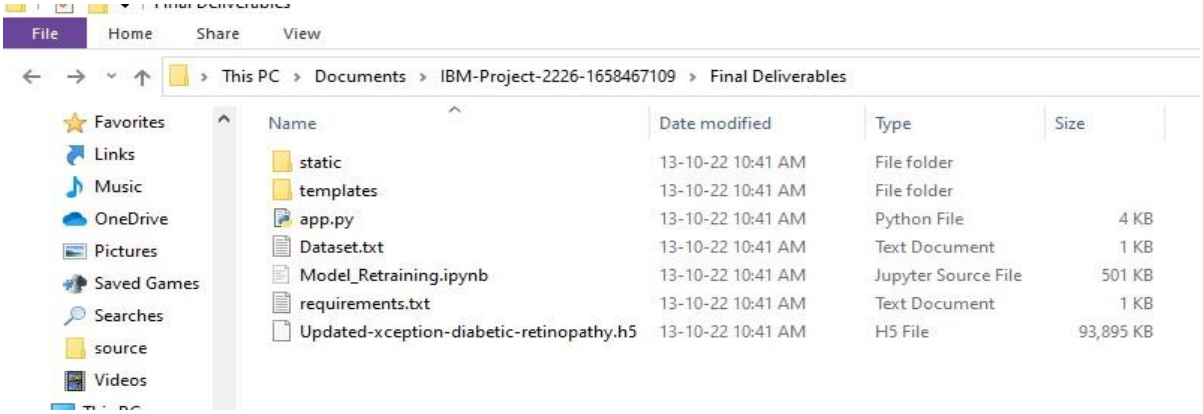
```python
import numpy as np
import os
from tensorflow.keras.models import load_model
from tensorflow.keras.preprocessing import image
from tensorflow.keras.applications.inception_v3 import preprocess_input
import requests
from flask import Flask, request, render_template, redirect, url_for
from cloudant.client import Cloudant
model = load_model(r"Updated-xception-diabetic-retinopathy.h5")
app = Flask(__name__)
# Authenticate using an IAM API key
client = Cloudant . iam('d3ffc21a-c9d1-4276-a7c3-d7a48a949e1f-bluemix',
                        'oS6rF9Lb8-d8IyJW4VEdHx5kiIN9ehQnNoj8ygKXFjzu', connect=True)
# Create a database using an initialized client
my_database = client.create_database('my_database')

# default home page or route
@app.route('/')
def index():
    return render_template('index.html')

# app.route('/index')
def home():
    return render_template("index.html")

# registration page
# app.route('/register')
def register():
    return render_template('register.html')

# app.route('/afterreg', methods=['POST'])
def afterreg():
    x = [x for x in request.form.values()]
```



RUN THE APPLICATION

```
C:\Users\hp\Documents\IBM-Project-2226-1658467109\Final Deliverables>python app.py
2022-10-18 22:11:43.490742: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll'; dlerror: cudart64_110.dll
 not found
2022-10-18 22:11:43.491113: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if you do not have a GPU set up on your machine.
2022-10-18 22:11:58.863287: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'nvcuda.dll'; dlerror: nvcuda.dll not found
2022-10-18 22:11:58.863941: W tensorflow/stream_executor/cuda/cuda_driver.cc:263] failed call to cuInit: UNKNOWN ERROR (303)
2022-10-18 22:11:58.883680: I tensorflow/stream_executor/cuda/cuda_diagnostics.cc:169] retrieving CUDA diagnostic information for host: DESKTOP-INOC6PE
2022-10-18 22:11:58.884138: I tensorflow/stream_executor/cuda/cuda_diagnostics.cc:176] hostname: DESKTOP-INOC6PE
2022-10-18 22:11:58.888656: I tensorflow/core/platform/cpu_feature_guard.cc:193] This TensorFlow binary is optimized with oneAPI Deep Neural Network Library (oneDNN) to
 use the following CPU instructions in performance-critical operations:  AVX
To enable them in other operations, rebuild TensorFlow with the appropriate compiler flags.
 * Serving Flask app 'app'
 * 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 watchdog (windowsapi)
```