

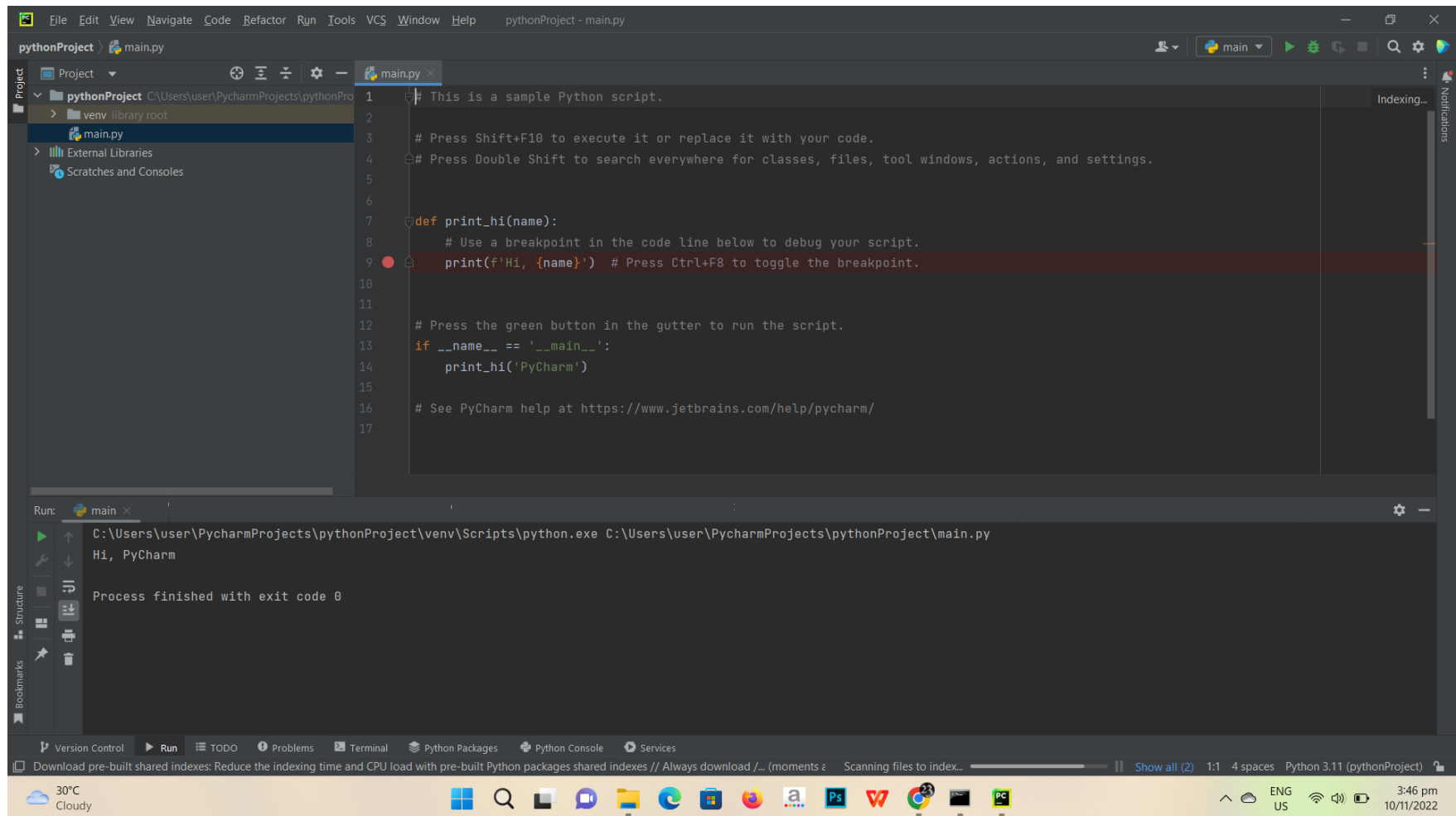
AI-based localization and classification of skin disease with Erythema

Sprint 1

Pre-Requisites and Dataset Creation

Pre-Requisites

STEP 1: Install Python IDE (Spyder/ PyCharm IDE Is Ideal To Complete This Project)



STEP 2: Install Python Packages

Anaconda Prompt (Anaconda3)

```
(base) C:\Users\Super User>pip install tensorflow==1.15.2
Requirement already satisfied: tensorflow==1.15.2 in f:\anaconda3\lib\site-packages (1.15.2)
Requirement already satisfied: protobuf>=3.6.1 in f:\anaconda3\lib\site-packages (from tensorflow==1.15.2) (4.21.9)
Requirement already satisfied: wheel>=0.26; python_version >= "3" in f:\anaconda3\lib\site-packages (from tensorflow==1.15.2) (0.33.4)
Requirement already satisfied: gast==0.2.2 in f:\anaconda3\lib\site-packages (from tensorflow==1.15.2) (0.2.2)
Requirement already satisfied: keras-preprocessing>=1.0.5 in f:\anaconda3\lib\site-packages (from tensorflow==1.15.2) (1.1.2)
Requirement already satisfied: tensorboard<1.16.0,>=1.15.0 in f:\anaconda3\lib\site-packages (from tensorflow==1.15.2) (1.15.0)
Requirement already satisfied: opt-einsum>=2.3.2 in f:\anaconda3\lib\site-packages (from tensorflow==1.15.2) (3.3.0)
Requirement already satisfied: wrapt>=1.11.1 in f:\anaconda3\lib\site-packages (from tensorflow==1.15.2) (1.11.2)
Requirement already satisfied: six>=1.10.0 in f:\anaconda3\lib\site-packages (from tensorflow==1.15.2) (1.12.0)
Requirement already satisfied: tensorflow-estimator==1.15.1 in f:\anaconda3\lib\site-packages (from tensorflow==1.15.2) (1.15.1)
Requirement already satisfied: numpy<2.0,>=1.16.0 in f:\anaconda3\lib\site-packages (from tensorflow==1.15.2) (1.16.4)
Requirement already satisfied: astor>=0.6.0 in f:\anaconda3\lib\site-packages (from tensorflow==1.15.2) (0.8.1)
Requirement already satisfied: keras-applications>=1.0.8 in f:\anaconda3\lib\site-packages (from tensorflow==1.15.2) (1.0.8)
Requirement already satisfied: grpcio>=1.8.6 in f:\anaconda3\lib\site-packages (from tensorflow==1.15.2) (1.50.0)
Requirement already satisfied: google-pasta>=0.1.6 in f:\anaconda3\lib\site-packages (from tensorflow==1.15.2) (0.2.0)
Requirement already satisfied: termcolor>=1.1.0 in f:\anaconda3\lib\site-packages (from tensorflow==1.15.2) (2.1.0)
Requirement already satisfied: absl-py>=0.7.0 in f:\anaconda3\lib\site-packages (from tensorflow==1.15.2) (1.3.0)
Requirement already satisfied: setuptools>=41.0.0 in f:\anaconda3\lib\site-packages (from tensorflow==1.15.2) (41.0.1)
Requirement already satisfied: werkzeug>=0.11.15 in f:\anaconda3\lib\site-packages (from tensorflow==1.15.2) (0.15.4)
Requirement already satisfied: markdown>=2.6.8 in f:\anaconda3\lib\site-packages (from tensorflow==1.15.2) (3.4.1)
Requirement already satisfied: h5py in f:\anaconda3\lib\site-packages (from tensorflow==1.15.2) (2.9.0)
Requirement already satisfied: importlib-metadata>=4.4; python_version < "3.10" in f:\anaconda3\lib\site-packages (from tensorflow==1.15.2) (5.0.0)
Requirement already satisfied: typing-extensions>=3.6.4; python_version < "3.8" in f:\anaconda3\lib\site-packages (from tensorflow==1.15.2) (4.4.0)
Requirement already satisfied: zipp>=0.5 in f:\anaconda3\lib\site-packages (from tensorflow==1.15.2) (0.5.1)

(base) C:\Users\Super User>pip install keras==2.2.4
Requirement already satisfied: keras==2.2.4 in f:\anaconda3\lib\site-packages (2.2.4)
Requirement already satisfied: keras-preprocessing>=1.0.5 in f:\anaconda3\lib\site-packages (from keras==2.2.4) (1.1.2)
Requirement already satisfied: pyyaml in f:\anaconda3\lib\site-packages (from keras==2.2.4) (5.1.1)
Requirement already satisfied: scipy>=0.14 in f:\anaconda3\lib\site-packages (from keras==2.2.4) (1.2.1)
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Requirement already satisfied: six>=1.9.0 in f:\anaconda3\lib\site-packages (from keras==2.2.4) (1.12.0)
Requirement already satisfied: numpy>=1.9.1 in f:\anaconda3\lib\site-packages (from keras==2.2.4) (1.16.4)
Requirement already satisfied: keras-applications>=1.0.6 in f:\anaconda3\lib\site-packages (from keras==2.2.4) (1.0.8)

(base) C:\Users\Super User>pip install opencv-python==4.1.0.25
Requirement already satisfied: opencv-python==4.1.0.25 in f:\anaconda3\lib\site-packages (4.1.0.25)
Requirement already satisfied: numpy>=1.14.5 in f:\anaconda3\lib\site-packages (from opencv-python==4.1.0.25) (1.16.4)
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Requirement already satisfied: grpcio>=1.8.6 in f:\anaconda3\lib\site-packages (from tensorflow==1.15.2) (1.50.0)
Requirement already satisfied: google-pasta>=0.1.6 in f:\anaconda3\lib\site-packages (from tensorflow==1.15.2) (0.2.0)
Requirement already satisfied: termcolor>=1.1.0 in f:\anaconda3\lib\site-packages (from tensorflow==1.15.2) (2.1.0)
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Requirement already satisfied: werkzeug>=0.11.15 in f:\anaconda3\lib\site-packages (from tensorboard<1.16.0,>=1.15.0->tensorflow==1.15.2) (0.15.4)
Requirement already satisfied: markdown>=2.6.8 in f:\anaconda3\lib\site-packages (from tensorboard<1.16.0,>=1.15.0->tensorflow==1.15.2) (3.4.1)
Requirement already satisfied: h5py in f:\anaconda3\lib\site-packages (from keras-applications>=1.0.8->tensorflow==1.15.2) (2.9.0)
Requirement already satisfied: importlib-metadata>=4.4; python_version < "3.10" in f:\anaconda3\lib\site-packages (from markdown>=2.6.8->tensorboard<1.16.0,>=1.15.0->tensorflow==1.15.2) (5.0.0)
Requirement already satisfied: typing-extensions>=3.6.4; python_version < "3.8" in f:\anaconda3\lib\site-packages (from importlib-metadata>=4.4; python_version < "3.10"->markdown>=2.6.8->tensorboard<1.16.0,>=1.15.0->tensorflow==1.15.2) (4.4.0)
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Requirement already satisfied: numpy>=1.14.5 in f:\anaconda3\lib\site-packages (from opencv-python==4.1.0.25) (1.16.4)

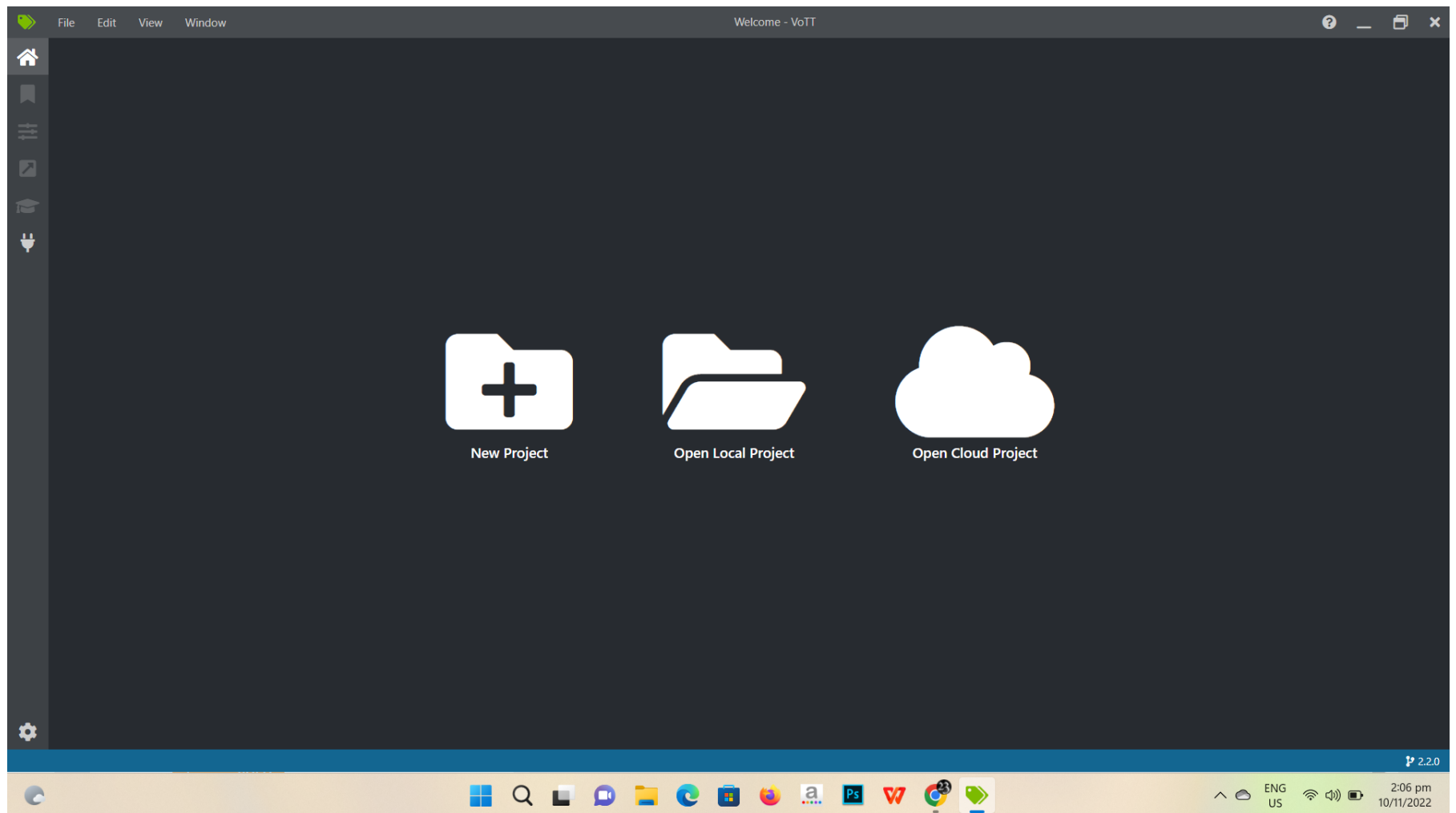
(base) C:\Users\Super User>pip install Pillow==6.2.2
Requirement already satisfied: Pillow==6.2.2 in f:\anaconda3\lib\site-packages (6.2.2)

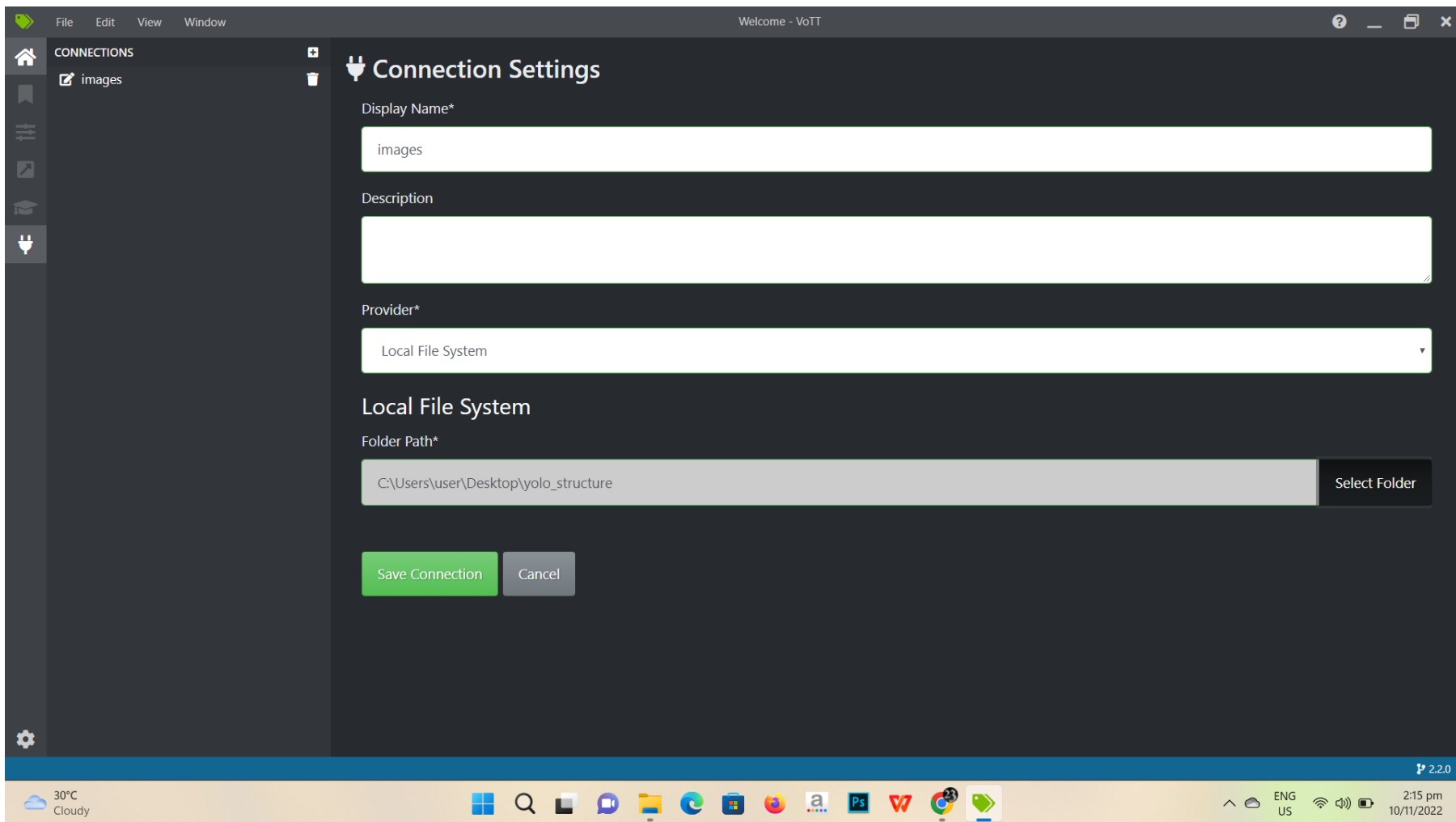
(base) C:\Users\Super User>pip install progressbar
Requirement already satisfied: progressbar in f:\anaconda3\lib\site-packages (2.5)

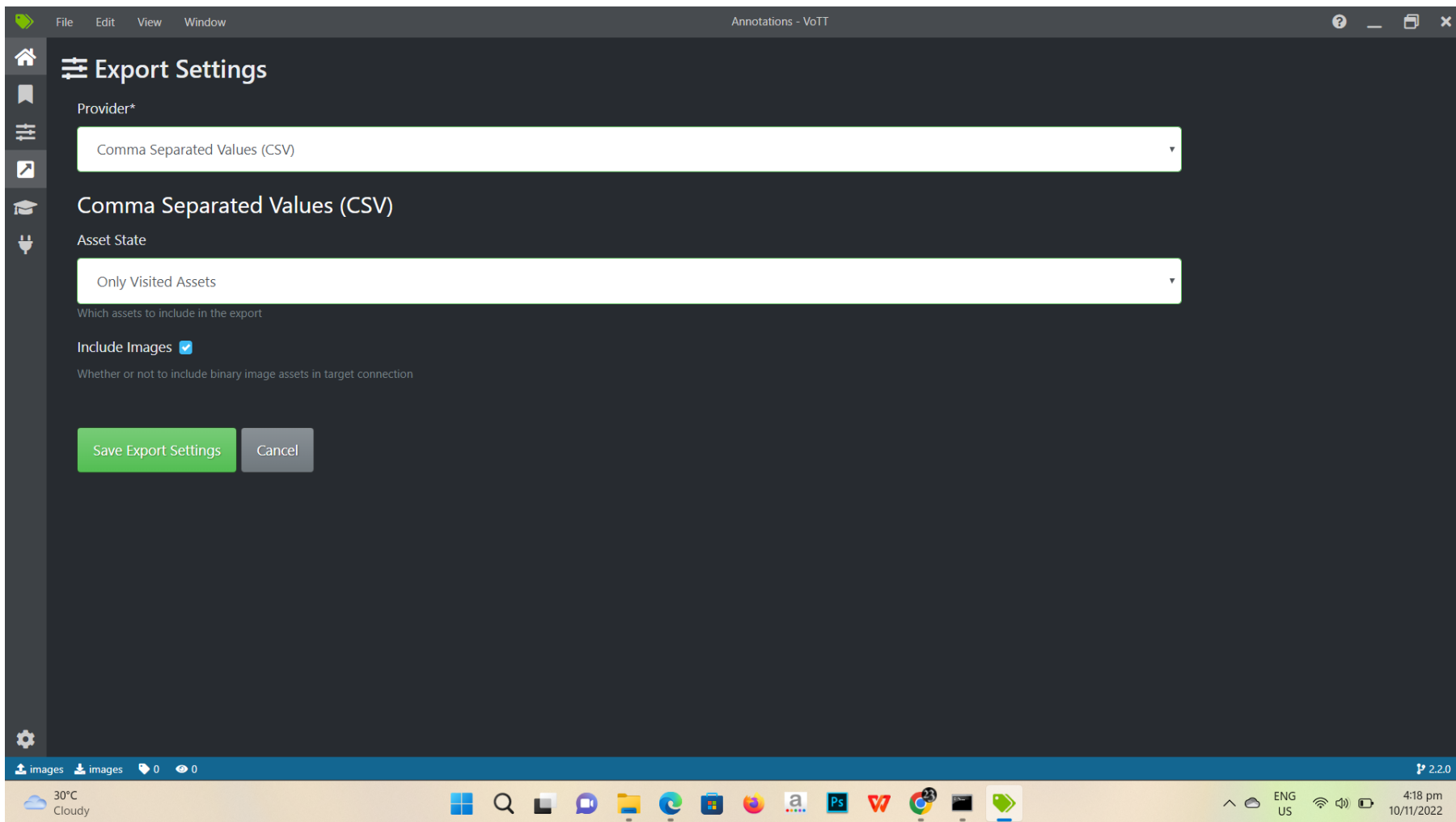
(base) C:\Users\Super User>
```



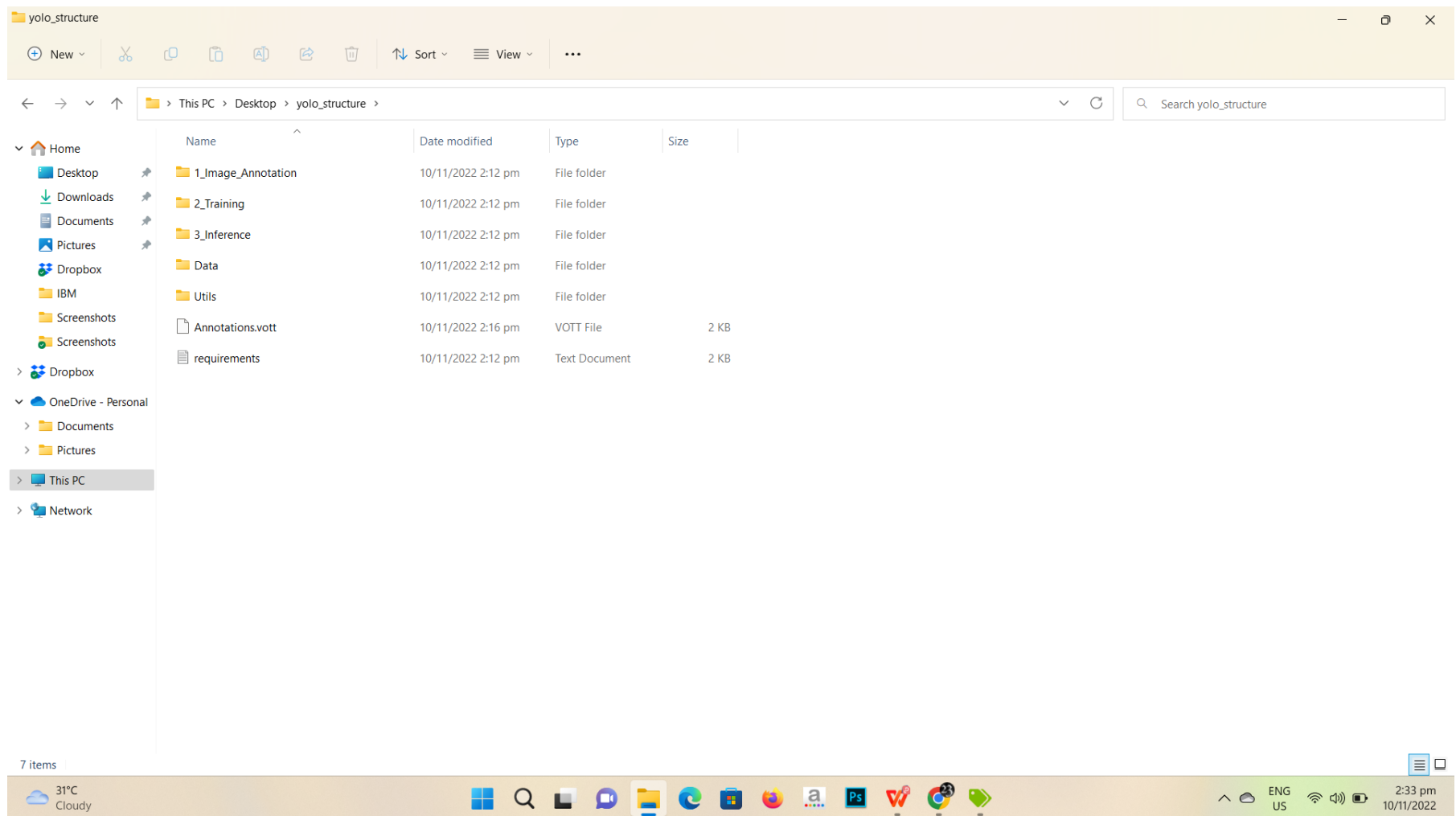
STEP 3: Install Microsoft's Visual Object Tagging Tool (VoTT)



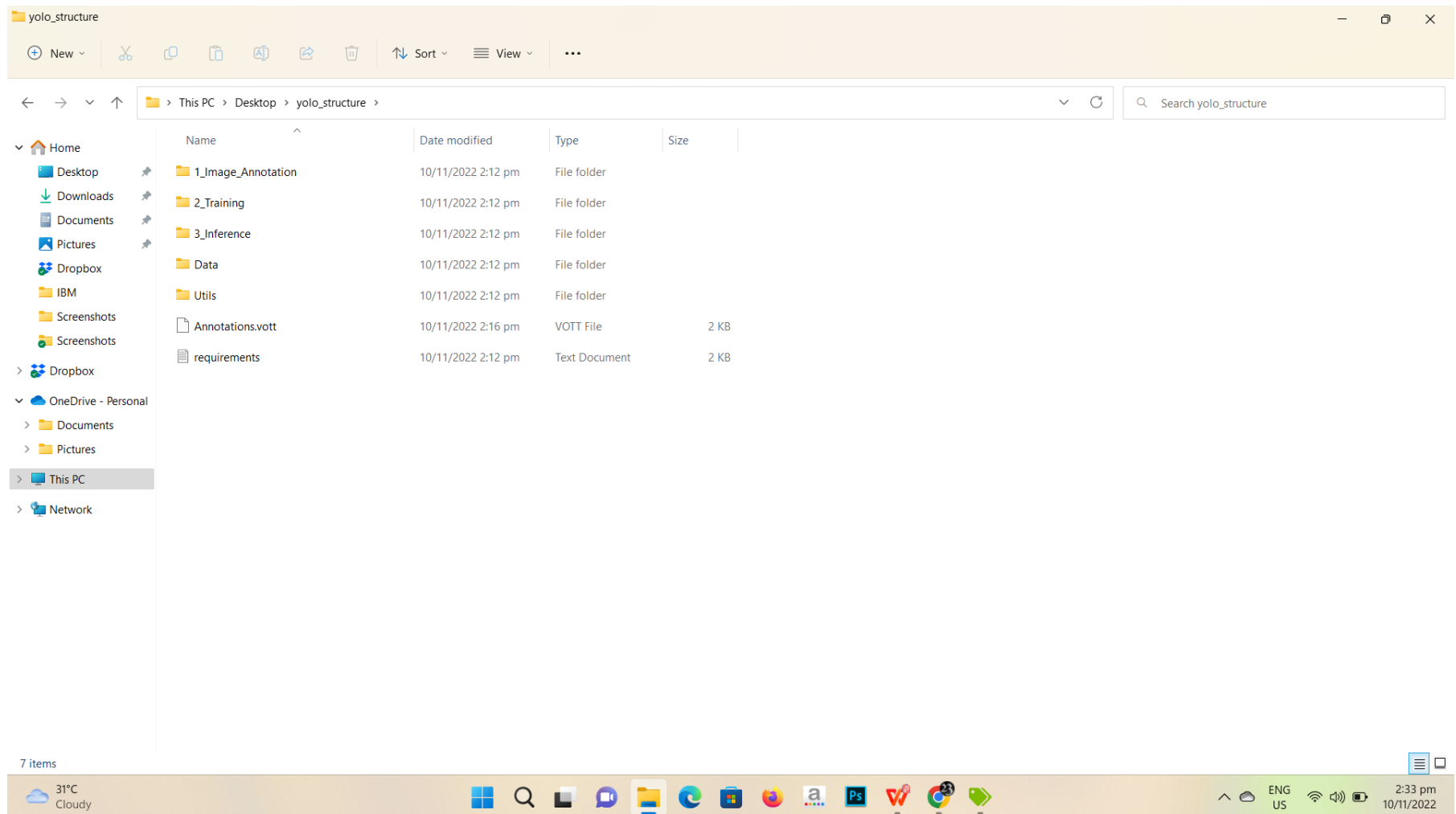




STEP 3: Download YOLO Project Structure

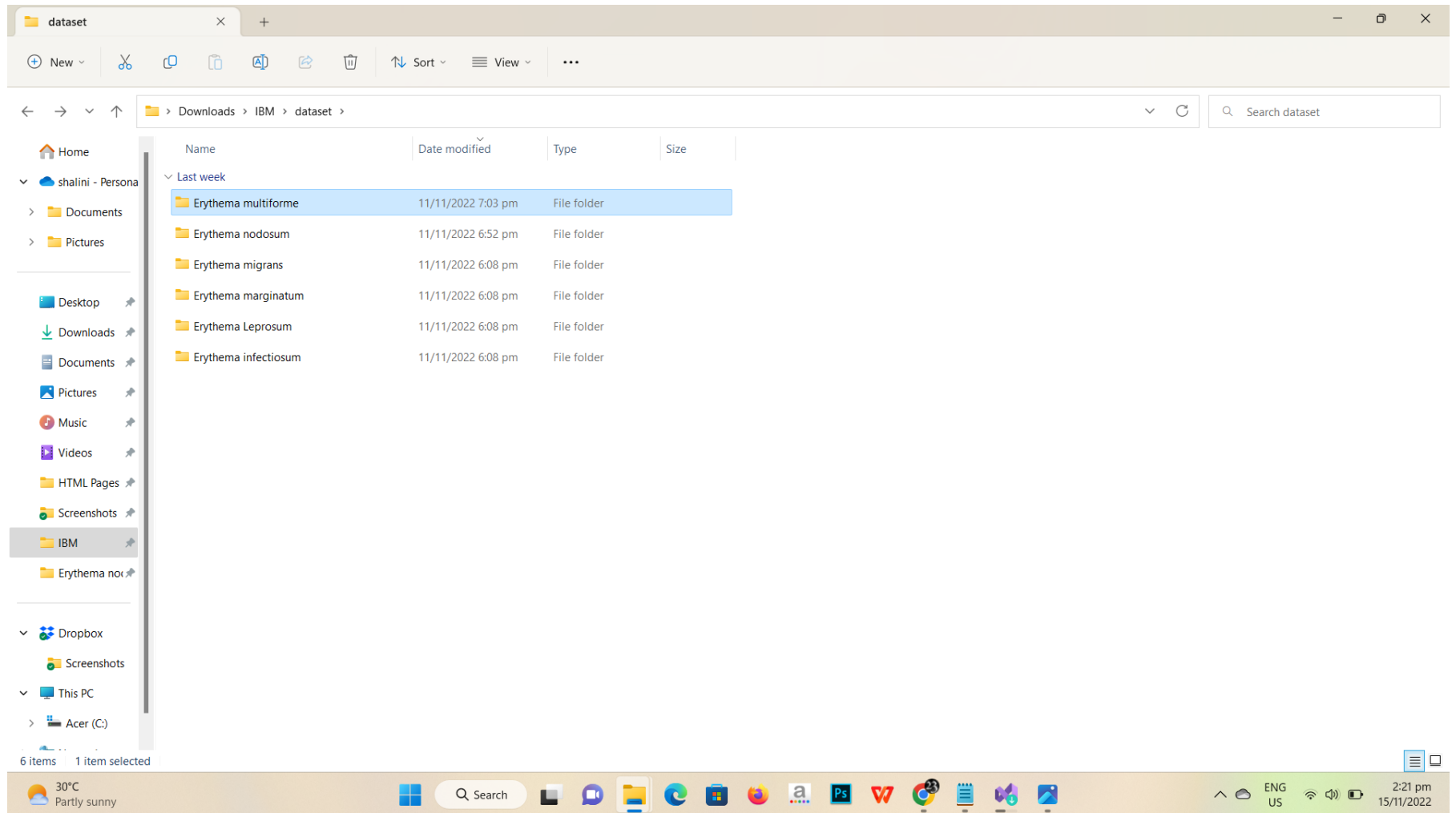


STEP 4: Download YOLO Project Structure



Create Dataset

STEP 5:



Erythema multiforme

New

Sort

View

Downloads > IBM > dataset > Erythema multiforme

Search Erythema multiforme

Home

shalini - Personal

Documents

Pictures

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Music

Videos

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Screenshots

Screenshots

IBM


Dropbox

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Acer (C:)

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multiforme 3




multiforme 4




multiforme 5




multiforme 6




multiforme 7




multiforme 8




multiforme (1)




multiforme 9




multiforme 10




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multiforme 54




multiforme 53




multiforme 52




multiforme 51




multiforme 50




multiforme 49




multiforme 48




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multiforme 44




multiforme 43




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56 items

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