# AI-based localization and classification of skin disease with Erythema

**Sprint 4** 

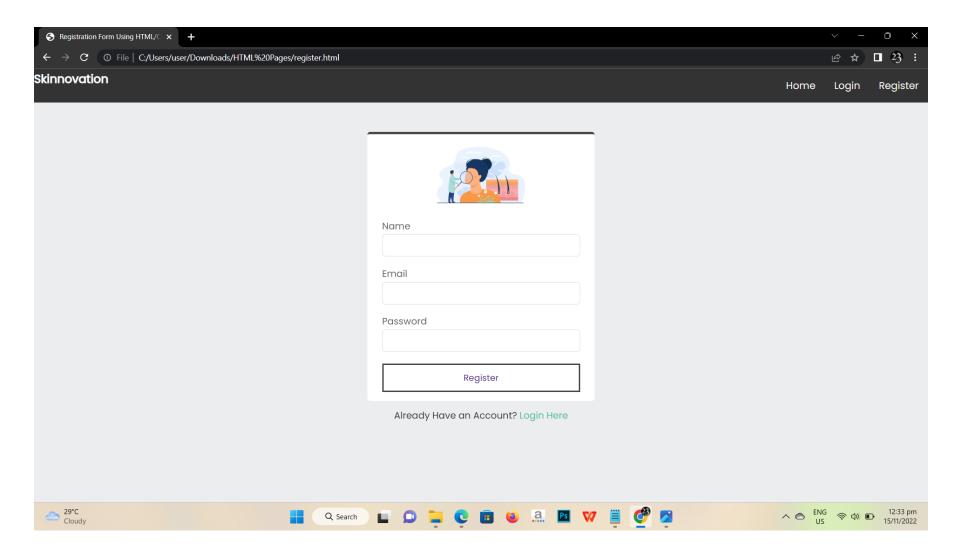
**Application Building** 

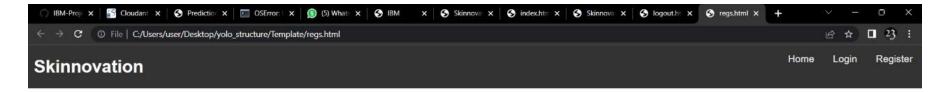
# **Building HTML Pages**

### STEP 1: Create index.html



# STEP 2: Create register.html





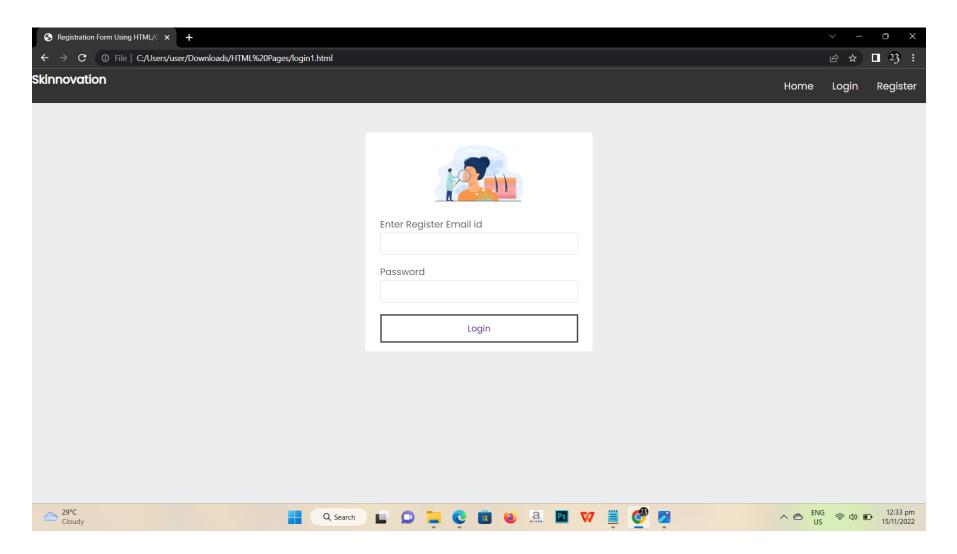
# **Successfully Registered**

Login For More Information

Login



# STEP 3: Create login.html

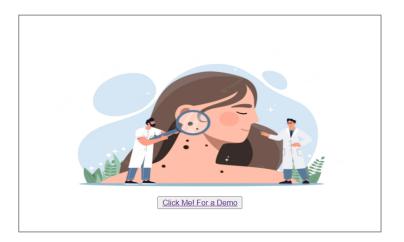


# STEP 4: Create prediction.html



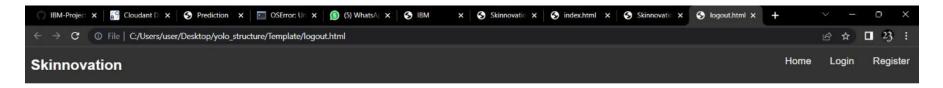
### Skinnovation-Al-Based localization and clasification of skin disease with erythema

Now days people are suffering from skin diseases. More than 125 million people suffering from psoriasis also skin cancer rate is rapidly increasing over the last few decades especially Melanoma is most diversifying skin cancer. If skin diseases are not treated at an earlier stage, then it may lead to complications on the body including spreading of the infection from one individual to the other. The skin diseases can be prevented by investigating the infected region at an early stage. The characteristic of the skin images is diversified so that it is a challenging job to devise an efficient and robust algorithm for automatic detection of skin disease and its severity. Skin tone and skin colour play an important role in skin disease detection. Colour and coarseness of skin are visually different. Automatic processing of such images for skin analysis requires quantitative discriminator to differentiate the diseases.





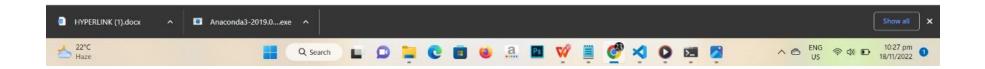
# STEP 5: Create logout.html



# **Successfully Logged Out**

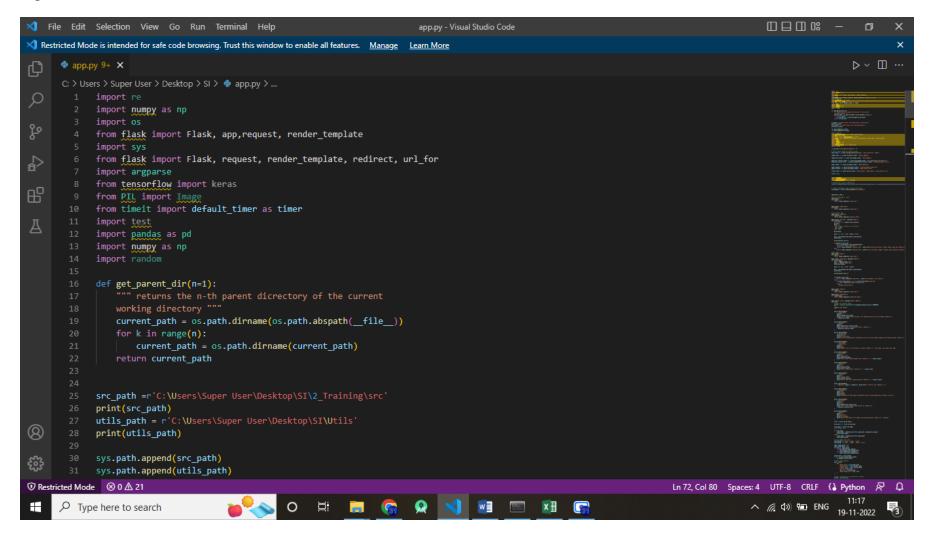
Login For More Information

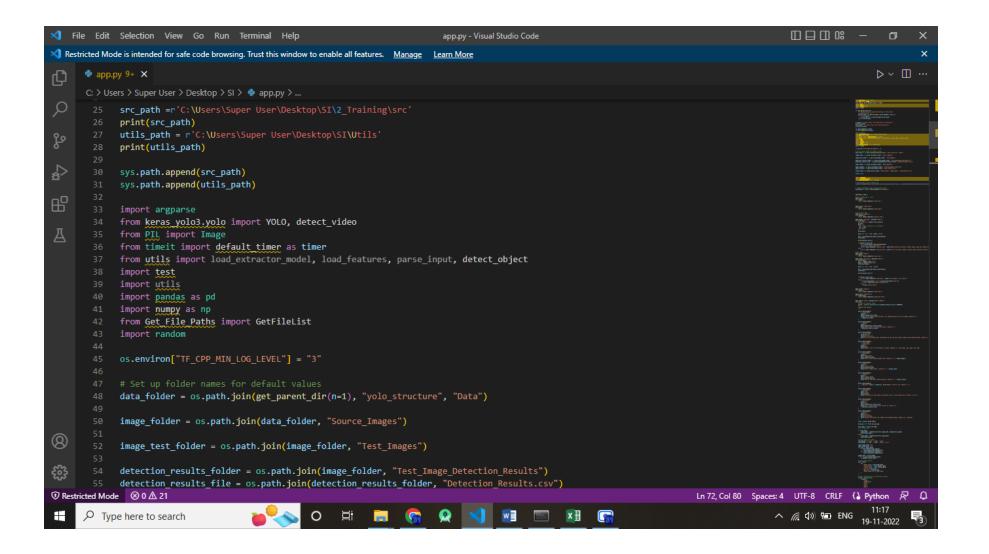


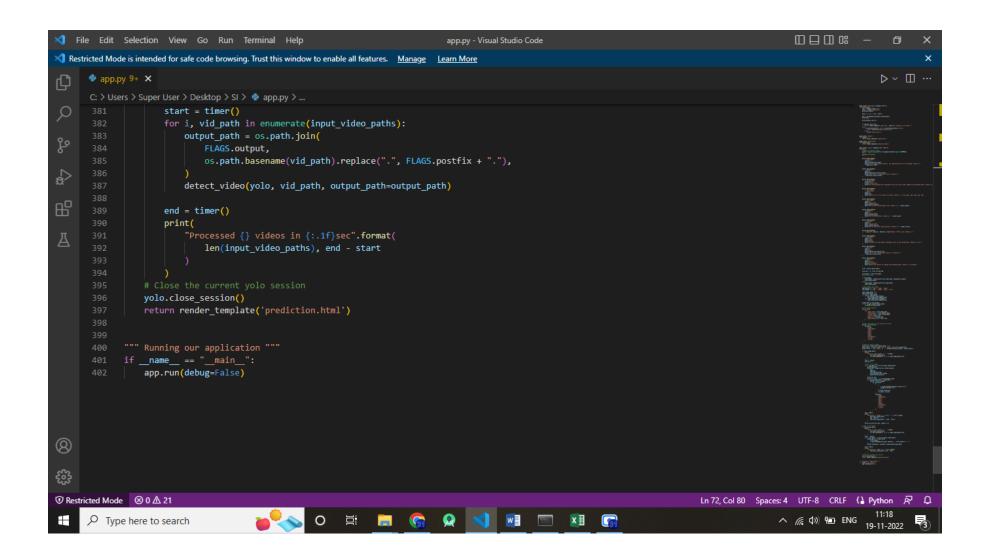


### **Build Python Code**

### Import the libraries







## **Run The Application**

### STEP 1:Open anaconda prompt from the start menu

```
Anaconda Prompt (Anaconda3) - python app.py
(base) C:\Users\Super User>cd Desktop
(base) C:\Users\Super User\Desktop>cd SI
(base) C:\Users\Super User\Desktop\SI>pip install -r requirements.txt
Requirement already satisfied: setuptools>=41.0.0 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 1)) (41.0.1)
Requirement already satisfied: pip>=19.0.0 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 2)) (19.1.1)
Requirement already satisfied: absl-py==0.7.1 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 3)) (0.7.1)
Requirement already satisfied: astor==0.8.0 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 4)) (0.8.0)
Requirement already satisfied: attrs==19.1.0 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 5)) (19.1.0)
Requirement already satisfied: backcall==0.1.0 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 6)) (0.1.0)
Requirement already satisfied: bleach==3.1.4 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 7)) (3.1.4)
Requirement already satisfied: certifi==2019.6.16 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 8)) (2019.6.16)
Requirement already satisfied: chardet==3.0.4 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 9)) (3.0.4)
Requirement already satisfied: cycler==0.10.0 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 10)) (0.10.0)
Requirement already satisfied: decorator==4.4.0 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 11)) (4.4.0)
Requirement already satisfied: defusedxml==0.6.0 in f:\anaconda3\lib\site-packages`(from -r requirements.txt`(line 12))`(0.6.0)
Requirement already satisfied: progressbar2==3.46.1 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 13)) (3.46.1)
Requirement already satisfied: entrypoints==0.3 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 14)) (0.3)
Requirement already satisfied: gast==0.2.2 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 15)) (0.2.2)
Requirement already satisfied: google-pasta==0.1.7 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 16)) (0.1.7)
Requirement already satisfied: grpcio==1.22.0 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 17)) (1.22.0)
Requirement already satisfied: h5py==2.9.0 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 18)) (2.9.0)
Requirement already satisfied: idna==2.8 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 19)) (2.8)
Requirement already satisfied: ipykernel>=5.3.0 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 20)) (6.16.2)
Requirement already satisfied: ipython==7.6.1 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 21)) (7.6.1)
Requirement already satisfied: ipython-genutils==0.2.0 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 22)) (0.2.0)
Requirement already satisfied: ipywidgets==7.5.0 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 23)) (7.5.0)
Requirement already satisfied: jedi>=0.17.2 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 24)) (0.18.1)
Requirement already satisfied: Jinja2==2.10.1 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 25)) (2.10.1)
Requirement already satisfied: joblib==0.13.2 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 26)) (0.13.2)
Requirement already satisfied: jsonschema>=3.2.0 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 27)) (4.17.0)
Requirement already satisfied: jupyter==1.0.0 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 28)) (1.0.0)
Requirement already satisfied: jupyter-client>=5.3.0 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 29)) (5.3.1)
Requirement already satisfied: jupyter-console==6.0.0 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 30)) (6.0.0)
Requirement already satisfied: jupyter-core==4.5.0 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 31)) (4.5.0)
Requirement already satisfied: Keras==2.2.4 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 32)) (2.2.4)
Requirement already satisfied: Keras-Applications==1.0.8 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 33)) (1.0.8)
Requirement already satisfied: Keras-Preprocessing==1.1.0 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 34)) (1.1.0)
Requirement already satisfied: kiwisolver==1.1.0 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 35)) (1.1.0)
Requirement already satisfied: Markdown==3.1.1 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 36)) (3.1.1)
Requirement already satisfied: MarkupSafe==1.1.1 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 37)) (1.1.1)
Requirement already satisfied: matplotlib==3.0.3 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 38)) (3.0.3)
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### STEP 2:Navigate to the folder where your python script:

```
Anaconda Prompt (Anaconda3) - python app.py
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Requirement already satisfied: tornado==6.0.3 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 79)) (6.0.3)
Requirement already satisfied: traitlets>=5.0.0 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 80)) (5.5.0)
Requirement already satisfied: urllib3==1.25.3 in c:\users\super user\appdata\roaming\python\python37\site-packages (from -r requirements.txt (line 81)) (1.25.3)
Requirement already satisfied: wcwidth==0.1.7 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 82)) (0.1.7)
Requirement already satisfied: webencodings==0.5.1 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 83)) (0.5.1)
Requirement already satisfied: Werkzeug==0.15.4 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 84)) (0.15.4)
Requirement already satisfied: widgetsnbextension==3.5.0 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 85)) (3.5.0)
Requirement already satisfied: wrapt==1.11.2 in f:\anaconda3\lib\site-packages (from -r requirements.txt (line 86)) (1.11.2)
Requirement already satisfied: python-utils>=2.3.0 in f:\anaconda3\lib\site-packages (from progressbar2==3.46.1->-r requirements.txt (line 13)) (3.4.5)
Requirement already satisfied: psutil in f:\anaconda3\lib\site-packages (from ipykernel>=5.3.0->-r requirements.txt (line 20)) (5.6.3)
Requirement alreadý satisfied: debugpy>=1.0 in f:\anaconda3\lib\site-packages (from ipykernel>=5.3.0->-r requirements.txt (líne 20)) (1.6.3)
Requirement already satisfied: nest-asyncio in f:\anaconda3\lib\site-packages (from ipykernel>=5.3.0->-r requirements.txt (line 20)) (1.5.6)
Requirement already satisfied: packaging in f:\anaconda3\lib\site-packages (from ipykernel>=5.3.0->-r requirements.txt (line 20)) (19.0)
Requirement already satisfied: matplotlib-inline>=0.1 in f:\anaconda3\lib\site-packages (from ipykernel>=5.3.0->-r requirements.txt (line 20)) (0.1.6)
Requirement already satisfied: colorama; sys platform == "win32" in f:\anaconda3\lib\site-packages (from ipython==7.6.1->-r requirements.txt (line 21)) (0.4.1)
Requirement already satisfied: typing-extensions; python version < "3.8" in f:\anaconda3\lib\site-packages (from jsonschema>=3.2.0->-r requirements.txt (line 27)) (4.4.
Requirement already satisfied: importlib-resources>=1.4.0; python version < "3.9" in f:\anaconda3\lib\site-packages (from jsonschema>=3.2.0->-r requirements.txt (line 2
Requirement already satisfied: pkgutil-resolve-name>=1.3.10; python version < "3.9" in f:\anaconda3\lib\site-packages (from jsonschema>=3.2.0->-r requirements.txt (line
Requirement already satisfied: importlib-metadata; python version < "3.8" in f:\anaconda3\lib\site-packages (from jsonschema>=3.2.0->-r requirements.txt (line 27)) (5.0
Requirement already satisfied: fastjsonschema in f:\anaconda3\lib\site-packages (from nbformat>=5.0->-r requirements.txt (line 42)) (2.16.2)
Requirement already satisfied: PyQt5 sip<13,>=4.19.14 in f:\anaconda3\lib\site-packages (from pyqt5<5.13->-r requirements.txt (line 58)) (12.11.0)
Requirement already satisfied: gtpy>=2.0.1 in c:\users\super user\appdata\roaming\python\python37\site-packages (from gtconsole>=5.1.0->-r requirements.txt (line 65)) (
Requirement already satisfied: charset-normalizer<3,>=2 in c:\users\super user\appdata\roaming\python\python37\site-packages (from requests>=2.23.0->-r requirements.txt
(line 66)) (2.1.1)
Requirement already satisfied: wheel>=0.26; python version >= "3" in f:\anaconda3\lib\site-packages (from tensorboard==1.15.0->-r requirements.txt (line 73)) (0.33.4)
Requirement already satisfied: opt-einsum>=2.3.2 in f:\anaconda3\lib\site-packages (from tensorflow==1.15.2->-r requirements.txt (line 74)) (3.3.0)
Requirement already satisfied: zipp>=3.1.0; python version < "3.10" in f:\anaconda3\lib\site-packages (from importlib-resources>=1.4.0; python version < "3.9"->jsonsche
ma>=3.2.0->-r requirements.txt (line 27)) (3.10.0)
(base) C:\Users\Super User\Desktop\SI>pip install cloudant
Requirement already satisfied: cloudant in f:\anaconda3\lib\site-packages (2.15.0)
Requirement already satisfied: requests<3.0.0,>=2.7.0 in c:\users\super user\appdata\roaming\python\python37\site-packages (from cloudant) (2.28.1)
Requirement already satisfied: certifi>=2017.4.17 in f:\anaconda3\lib\site-packages (from requests<3.0.0,>=2.7.0->cloudant) (2019.6.16)
Requirement already satisfied: charset-normalizer<3.>=2 in c:\users\super user\appdata\roaming\python\python37\site-packages (from requests<3.0.0.>=2.7.0->cloudant) (2.
1.1)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\users\super user\appdata\roaming\python\python37\site-packages (from requests<3.0.0,>=2.7.0->cloudant) (1.25.
Requirement already satisfied: idna<4,>=2.5 in f:\anaconda3\lib\site-packages (from requests<3.0.0,>=2.7.0->cloudant) (2.8)
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### STEP 3: Now type "python app.py" command

```
Anaconda Prompt (Anaconda3) - python app.py
                                                                                                                                                                                                                                                                                                                 П
                                                                                                                                                                                                                                                                                                                         \times
 Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\users\super user\appdata\roaming\python\python37\site-packages (from requests<3.0.0,>=2.7.0->cloudant) (1.25.
Requirement already satisfied: idna<4,>=2.5 in f:\anaconda3\lib\site-packages (from requests<3.0.0,>=2.7.0->cloudant) (2.8)
(base) C:\Users\Super User\Desktop\SI>python app.py
 C:\Users\Super User\Desktop\SI\2_Training\src
  :\Users\Super User\Desktop\SI\Utils
Using TensorFlow backend.
  * Serving Flask app "app" (lazy loading)
  * Environment: production
     Use a production WSGI server instead.
  * Debug mode: off
 WARNING: Logging before flag parsing goes to stderr.
I1119 11:10:54.254477 6436 internal.py:122] * Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
Internal process of the second process of t
 ['Priya S', 'priya2406@gmail.com', 'priyavp']
   '_id': 'priya2406@gmail.com', 'name': 'Priya S', 'psw': 'priyavp'}
<cloudant.result.QueryResult object at 0x0000026837D36320>
I1119 11:11:56.921161 4316 _internal.py:122] 127.0.0.1 - - [19/Nov/2022 11:11:56] "←[37mPOST /afterreg HTTP/1.1←[0m" 200 - I1119 11:11:57.007112 7048 _internal.py:122] 127.0.0.1 - - [19/Nov/2022 11:11:57] "←[33mGET /static/css/style.css HTTP/1.1←[0m" 404 - I1119 11:12:18.593814 6856 _internal.py:122] 127.0.0.1 - - [19/Nov/2022 11:12:18] "←[37mGET /login HTTP/1.1←[0m" 200 -
priya2406@gmail.com priyavp
 <cloudant.result.QueryResult object at 0x0000026837D36B00>
I1119 11:12:35.269101 4840 _internal.py:122] 127.0.0.1 - - [19/Nov/2022 11:12:35] "←[32mPOST /afterlogin HTTP/1.1←[0m" 302 - I1119 11:12:35.286111 10708 _internal.py:122] 127.0.0.1 - - [19/Nov/2022 11:12:35] "←[37mGET /prediction HTTP/1.1←[0m" 200 -
 ['C:\\Users\\Super User\\Desktop\\yolo structure\\Data\\Source Images\\Test Images\\infectiosum(1).jpeg']
W1119 11:12:54.684875 6056 module wrapper.py:139] From F:\Anaconda3\lib\site-packages\keras\backend\tensorflow backend.py:174: The name tf.get default session is depre
cated. Please use tf.compat.v1.get_default_session instead.
W1119 11:12:54.685870 6056 module_wrapper.py:139] From F:\Anaconda3\lib\site-packages\keras\backend\tensorflow_backend.py:181: The name tf.ConfigProto is deprecated. P
lease use tf.compat.v1.ConfigProto instead.
W1119 11:12:54.692879 6056 module wrapper.py:139] From F:\Anaconda3\lib\site-packages\keras\backend\tensorflow backend.py:186: The name tf.Session is deprecated. Pleas
  use tf.compat.v1.Session instead.
W1119 11:12:54.700176 6056 module_wrapper.py:139] From F:\Anaconda3\lib\site-packages\keras\backend\tensorflow_backend.py:190: The name tf.global_variables is deprecat
ed. Please use tf.compat.v1.global variables instead.
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