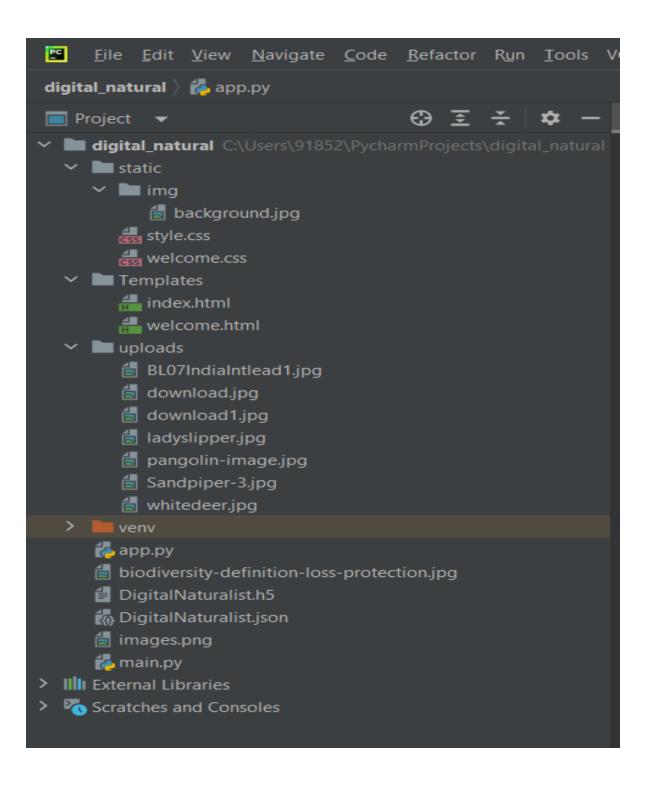
Project Structure

Date	17 November 2022
Team ID	PNT2022TMID18534
Project Name	Project - Digital Naturalist - Al Enabled tool for Biodiversity Researchers
Description	The following document shows the intended project structure within the flask application done in PyCharmIDE



```
🛵 app.py
      # welcome.html ×
                      welcome.css × = index.html × = style.css
  from __future__ import division, print_function
  import os
  import numpy as np
  import tensorflow as tf
  from flask import Flask, redirect, render_template, request
  from keras.applications.inception_v3 import preprocess_input
  from keras.models import model_from_json
  from werkzeug.utils import secure_filename
  global graph
  graph=tf.compat.v1.get_default_graph()
  #this list is used to log the predictions in the server console
  predictions = ["Corpse Flower",
  #this list contains the link to the predicted species
  found = [
          "https://en.wikipedia.org/wiki/Amorphophallus_titanum",
          "https://en.wikipedia.org/wiki/Seneca_white_deer",
  app = Flask(__name___template_folder="Templates")
```

```
🛵 app.py >
      # welcome.html ×

∰ welcome.css ×
                                     # index.html ×
                                                   astyle.css
  @app.route('/index')
 def pop():
      return render_template('index.html')
  @app.route('/',methods=['GET','POST'])
  def index():
      return render_template("welcome.html")
  @app.route('/predict', methods=['GET', 'POST'])
  def upload():
      if request.method == 'GET':
          return ("<h6 style=\"font-face:\"Courier New\";\">No GET request herd.....</h6 >")
      if request.method == 'POST':
           f = request.files['uploadedimg']
          basepath = os.path.dirname(__file__)
           #Securing the file by creating a path in local storage
           file_path = os.path.join(basepath, 'uploads', secure_filename(f.filename))
          f.save(file_path)
          img = tf.keras.utils.load_img(file_path, target_size=(224, 224))
          x = tf.keras.utils.img_to_array(img)
           x = preprocess_input(x)
          inp = np.array([x])
          with graph.as_default():
              json_file = open('DigitalNaturalist.json', 'r')
              loaded_model_json = json_file.read()
```