



App.py

```
import tensorflow as tf
     import tensorflow_hub as hub
     import warnings
     warnings.filterwarnings('ignore')
     import h5py
    import numpy as np
     import os
     from flask import Flask, app,request,render_template
     from tensorflow import keras
     import cv2
     import tensorflow_hub as hub
     model = tf.keras.models.load_model(filepath='rice.h5',custom_objects={'KerasLayer':hub.KerasLayer})
     app = Flask(__name__)
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     @app.route('/')
     def home():
         return render_template('index.html')
     @app.route('/details')
     def pred():
         return render_template('details.html')
```

```
@app.route('/result',methods = ['GET','POST'])
def predict():
    if request.method == "POST":
        f = request.files['image']
        basepath=os.path.dirname(__file__) #getting the current path i.e where app.py is present
        #print("current path",basepath)
        filepath=os.path.join(basepath,'Data','val',f.filename) #from anywhere in the system we can give image but we
        want that image later to process so we are saving it to uploads folder for reusing
        #print("upload folder is",filepath)
        f.save(filepath)
        a2 = cv2.imread(filepath)
        a2 = cv2.resize(a2,(224,224))
        a2 = np.array(a2)
        a2 = np.expand_dims(a2, 0)

        pred = model.predict(a2)
        pred = pred.argmax()
```



