```
from keras.preprocessing import image
from tensorflow.keras.preprocessing.image import img_to_array
from tensorflow.keras.preprocessing import image
from tensorflow.keras.models import load_model
import numpy as nps

model=load_model(r'/content/vegetable.h5')

import numpy as np
from tensorflow.keras.models import load_model
from tensorflow.keras.preprocessing import image

img=image.load_img(r'/content/drive/MyDrive/DataSet/Dataset Plant
Disease/fruit-dataset/Veg-dataset/Veg-dataset/test_set/Tomato___Bacter
ial_spot/b0049dbf-cdef-4a85-b6e1-b37ed6bc4cfa___UF.GRC_BS_Lab Leaf
0696.JPG',grayscale=False,target_size=(128,128))

img
```

```
x=image.img_to_array(img)
x=nps.expand_dims(x,axis=0)

pred=(model.predict(x) > 0.5).astype("int32")

1/1 [==============================] - 0s 34ms/step

pred

array([[0, 0, 0, 0, 0, 0, 0, 0, 1]], dtype=int32)

x_test.class_indices

{'Pepper,_bell___Bacterial_spot': 0,
 'Pepper,_bell___healthy': 1,
 'Potato___Early_blight': 2,
 'Potato___Late_blight': 3,
 'Potato___healthy': 4,
 'Tomato___Bacterial_spot': 5,
 'Tomato___Late_blight': 6,
 'Tomato___Leaf_Mold': 7,
 'Tomato___Septoria_leaf_spot': 8}
```

```
img=image.load_img(r"/content/drive/MyDrive/DataSet/Dataset Plant
Disease/fruit-dataset/Veg-dataset/Veg-dataset/test_set/Tomato___Bacter
ial_spot/b0049dbf-cdef-4a85-b6e1-b37ed6bc4cfa___UF.GRC_BS_Lab Leaf
0696.JPG",target_size=(128,128))
x=image.img_to_array(img)
x=np.expand_dims(x,axis=0)
y=np.argmax(model.predict(x),axis=1)
index=['Pepper,_bell___Bacterial_spot','Pepper,_bell___healthy','Potat
o___Early_blight','Potato___Late_blight','Potato___healthy','Tomato___
Bacterial_spot','Tomato___Late_blight','Tomato___Leaf_Mold','Tomato___
Septoria_leaf_spot']
index[y[0]]
```

```
1/1 [==============================] - 0s 31ms/step
```


```
{"type":"string"}
```