

Problem statement: To build a CNN based model which can accurately detect melanoma. Melanoma is a type of cancer that can be deadly if not detected early. It accounts for 75% of skin cancer deaths. A solution which can evaluate images and alert the dermatologists about the presence of melanoma has the potential to reduce a lot of manual effort needed in diagnosis.

Importing Skin Cancer Data

Importing all the important libraries

In [2]:

```
import pathlib
import tensorflow as tf
import matplotlib.pyplot as plt
import numpy as np
import pandas as pd
import os
import PIL
from tensorflow import keras
from tensorflow.keras import layers
from tensorflow.keras.models import Sequential

import PIL

from tensorflow.keras.optimizers import Adam
from tensorflow.keras.callbacks import ModelCheckpoint, EarlyStopping

from tensorflow.keras.preprocessing.image import load_img
```

In [3]:

```
## If you are using the data by mounting the google drive, use the following :
from google.colab import drive
drive.mount('/content/gdrive')
```

Mounted at /content/gdrive

In [4]:

```
#unzip the dataset
!unzip "/content/gdrive/MyDrive/CNN_assignment.zip" > /dev/null
```

This assignment uses a dataset of about 2357 images of skin cancer types. The dataset contains 9 sub-directories in each train and test subdirectories. The 9 sub-directories contains the images of 9 skin cancer types respectively.

In [5]:

```
# Defining the path for train and test images

data_dir_train = pathlib.Path("/content/Skin cancer ISIC The International Skin Imaging Collaboration/Train/")
data_dir_test = pathlib.Path('/content/Skin cancer ISIC The International Skin Imaging Collaboration/Test/')
```

In [6]:

```
image_count_train = len(list(data_dir_train.glob('*/*.jpg')))
print(image_count_train)
image_count_test = len(list(data_dir_test.glob('*/*.jpg')))
print(image_count_test)
```

2239

118

Load using keras.preprocessing

Let's load these images off disk using the helpful `image_dataset_from_directory` utility.

Create a dataset

Define some parameters for the loader:

In [7]:

```
batch_size = 32
img_height = 180
img_width = 180
```

Use 80% of the images for training, and 20% for validation.

In [8]:

```
## Write your train dataset here
## Note use seed=123 while creating your dataset using tf.keras.preprocessing.image_dataset_from_directory
## Note, make sure you resize your images to the size img_height*img_width, while writing the dataset

train_ds = tf.keras.preprocessing.image_dataset_from_directory(data_dir_train, batch_size=32,
                                                             image_size=(img_height, img_width), label_mode='categorical',
                                                             seed=123, subset="training",
                                                             validation_split=0.2)
```

Found 2239 files belonging to 9 classes.

Using 1792 files for training.

In [9]:

```
## Write your validation dataset here
## Note use seed=123 while creating your dataset using tf.keras.preprocessing.image_dat
aset_from_directory
## Note, make sure you resize your images to the size img_height*img_width, while writ
ting the dataset

val_ds = tf.keras.preprocessing.image_dataset_from_directory(data_dir_train, batch_size=
32,
                                                             image_size=(img_height, img_
width), label_mode='categorical',
                                                             seed=123, subset="validatio
n",
                                                             validation_split=0.2)
```

Found 2239 files belonging to 9 classes.
Using 447 files for validation.

In [10]:

```
# List out all the classes of skin cancer and store them in a list.
# You can find the class names in the class_names attribute on these datasets.
# These correspond to the directory names in alphabetical order.
class_names = train_ds.class_names
print(class_names)
```

```
['actinic keratosis', 'basal cell carcinoma', 'dermatofibroma', 'melanom
a', 'nevus', 'pigmented benign keratosis', 'seborrheic keratosis', 'squamo
us cell carcinoma', 'vascular lesion']
```

Data Visualization

In [11]:

```
import matplotlib.pyplot as plt

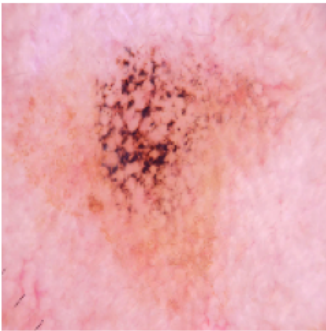
### your code goes here, you can use training or validation data to visualize

#Dictionary to store the path of image as per the class
files_path_dict = {}

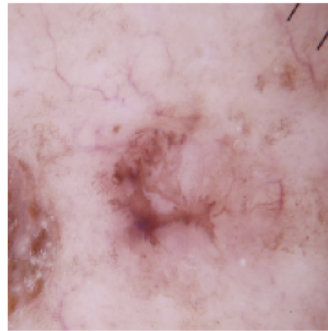
for c in class_names:
    files_path_dict[c] = list(map(lambda x:str(data_dir_train)+'/'+c+'/' + x,os.listdir(s
tr(data_dir_train)+'/'+c)))

#Visualize image
plt.figure(figsize=(15,15))
index = 0
for c in class_names:
    path_list = files_path_dict[c][:1]
    index += 1
    plt.subplot(3,3,index)
    plt.imshow(load_img(path_list[0],target_size=(180,180)))
    plt.title(c)
    plt.axis("off")
```

actinic keratosis



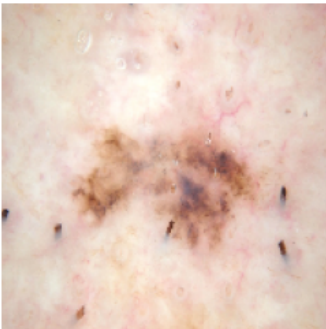
basal cell carcinoma



dermatofibroma



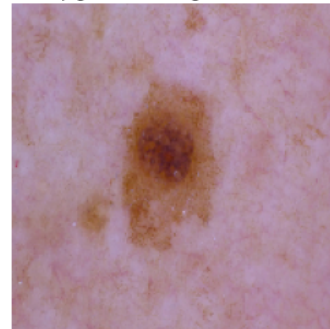
melanoma



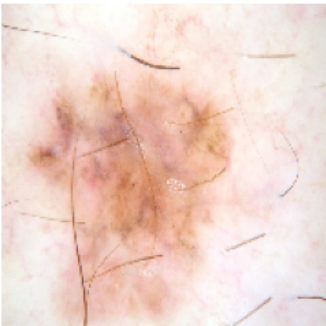
nevus



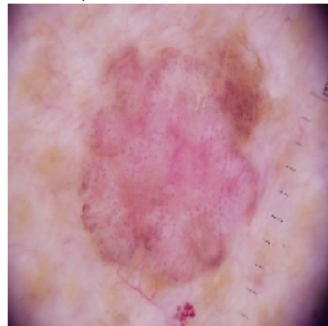
pigmented benign keratosis



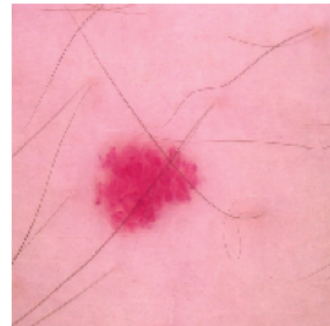
seborrheic keratosis



squamous cell carcinoma



vascular lesion



In [12]:

#Visualize distribution of classes in the training dataset.

```
def class_distribution_count(directory):

    #count number of image in each classes
    count= []
    for path in pathlib.Path(directory).iterdir():
        if path.is_dir():
            count.append(len([name for name in os.listdir(path)
                             if os.path.isfile(os.path.join(path, name))]))

    #name of the classes
    sub_directory = [name for name in os.listdir(directory)
                     if os.path.isdir(os.path.join(directory, name))]

    #return dataframe with image count and class.
    return pd.DataFrame(list(zip(sub_directory,count)),columns =['Class', 'No. of Image'])

df = class_distribution_count(data_dir_train)
df
```

Out[12]:

	Class	No. of Image
0	actinic keratosis	114
1	seborrheic keratosis	77
2	vascular lesion	139
3	basal cell carcinoma	376
4	dermatofibroma	95
5	pigmented benign keratosis	462
6	squamous cell carcinoma	181
7	nevus	357
8	melanoma	438

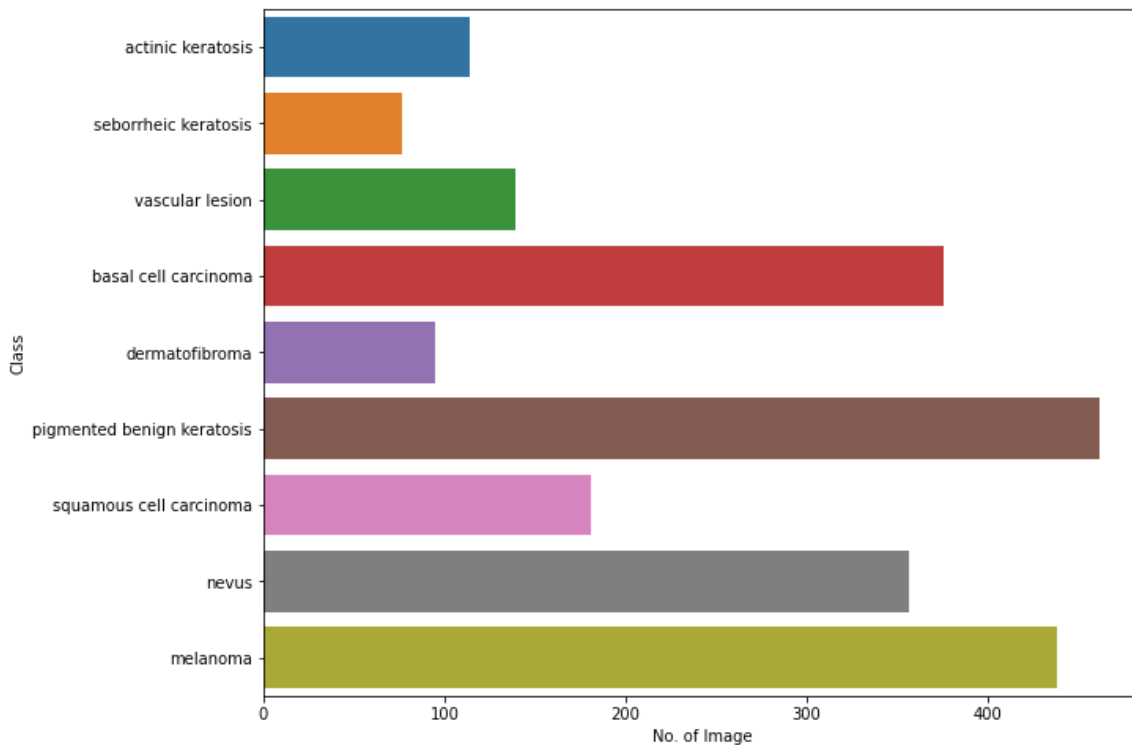
The `image_batch` is a tensor of the shape `(32, 180, 180, 3)`. This is a batch of 32 images of shape `180x180x3` (the last dimension refers to color channels RGB). The `label_batch` is a tensor of the shape `(32,)`, these are corresponding labels to the 32 images.

In [13]:

```
#Visualize the Number of image in each class.  
import seaborn as sns  
plt.figure(figsize=(10, 8))  
sns.barplot(x="No. of Image", y="Class", data=df,  
            label="Class")
```

Out[13]:

<matplotlib.axes._subplots.AxesSubplot at 0x7f42361eb990>



Model Building

Without any data augmentation- original dataset

`Dataset.cache()` keeps the images in memory after they're loaded off disk during the first epoch.

`Dataset.prefetch()` overlaps data preprocessing and model execution while training.

In [14]:

```
AUTOTUNE = tf.data.experimental.AUTOTUNE  
train_ds = train_ds.cache().shuffle(1000).prefetch(buffer_size=AUTOTUNE)  
val_ds = val_ds.cache().prefetch(buffer_size=AUTOTUNE)
```

Create the model

Todo: Create a CNN model, which can accurately detect 9 classes present in the dataset. Use `layers.experimental.preprocessing.Rescaling` to normalize pixel values between (0,1). The RGB channel values are in the `[0, 255]` range. This is not ideal for a neural network. Here, it is good to standardize values to be in the `[0, 1]`

In [15]:

```
#CNN Model Architecture

#Sequential allows you to create models layer-by-layer
model = Sequential()

model.add(layers.experimental.preprocessing.Rescaling(1./255,input_shape=(180,180,3)))
#Rescaling Layer

#First Convulation Layer
model.add(layers.Conv2D(32, kernel_size=(3,3), activation='relu'))
model.add(layers.MaxPool2D(pool_size=(2,2)))

#Second Convulation Layer
model.add(layers.Conv2D(64, kernel_size=(3,3), activation='relu'))
model.add(layers.MaxPool2D(pool_size=(2,2)))

#Third Convulation Layer
model.add(layers.Conv2D(128, kernel_size=(3,3), activation='relu'))
model.add(layers.MaxPool2D(pool_size=(2,2)))

#Dropout Layer with 50% Fraction of the input units to drop.
model.add(layers.Dropout(0.5))

#Flatten Layer
##Keras.layers.flatten function flattens the multi-dimensional input tensors into a single dimension.
model.add(layers.Flatten())

#Dense Layer
model.add(layers.Dense(128, activation='relu'))

#Dropout Layer with 25% Fraction of the input units to drop.
model.add(layers.Dropout(0.25))

#Dense Layer with softmax activation function.
#Softmax is an activation function that scales numbers/logits into probabilities.
model.add(layers.Dense(len(class_names), activation='softmax'))
```

In [16]:

```
model.summary()
```

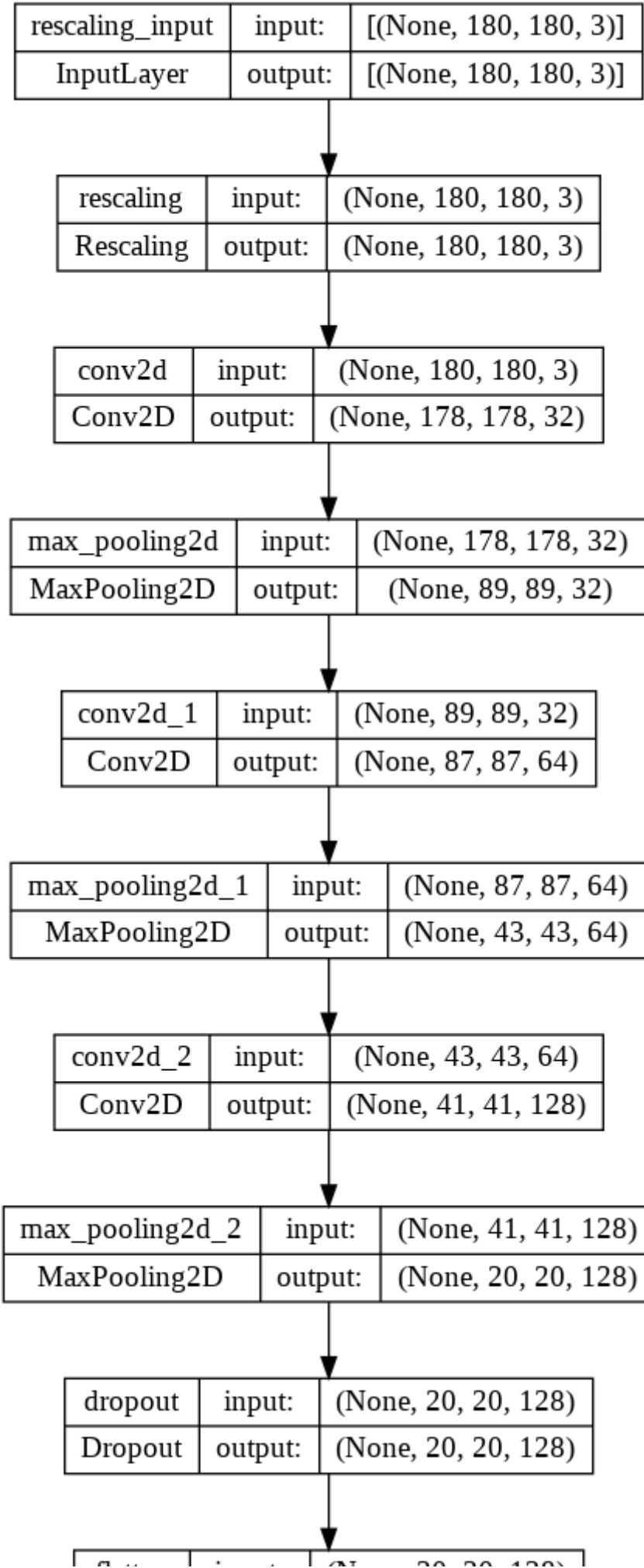
Model: "sequential"

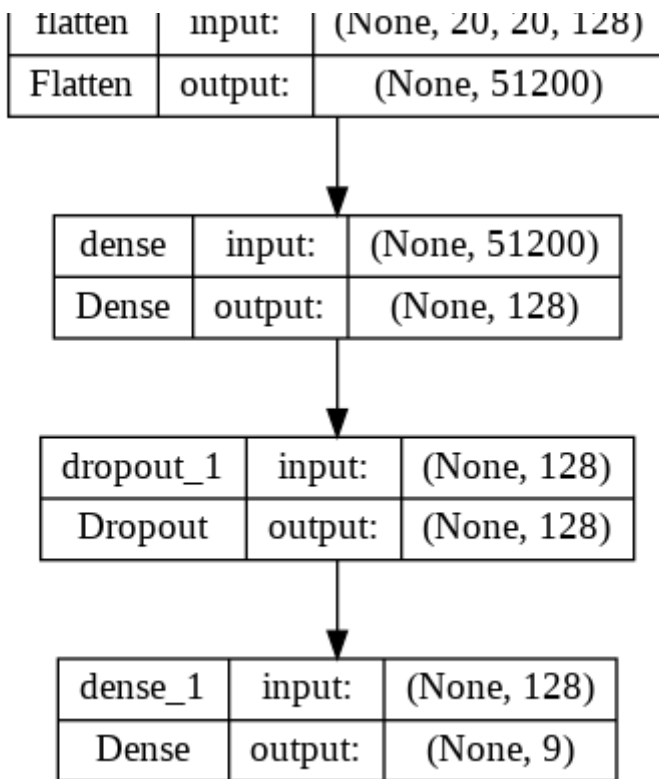
Layer (type)	Output Shape	Param #
rescaling (Rescaling)	(None, 180, 180, 3)	0
conv2d (Conv2D)	(None, 178, 178, 32)	896
max_pooling2d (MaxPooling2D)	(None, 89, 89, 32)	0
conv2d_1 (Conv2D)	(None, 87, 87, 64)	18496
max_pooling2d_1 (MaxPooling2D)	(None, 43, 43, 64)	0
conv2d_2 (Conv2D)	(None, 41, 41, 128)	73856
max_pooling2d_2 (MaxPooling2D)	(None, 20, 20, 128)	0
dropout (Dropout)	(None, 20, 20, 128)	0
flatten (Flatten)	(None, 51200)	0
dense (Dense)	(None, 128)	6553728
dropout_1 (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 9)	1161
Total params: 6,648,137		
Trainable params: 6,648,137		
Non-trainable params: 0		

In [17]:

```
# visualizing the model  
from tensorflow.keras.utils import plot_model  
plot_model(model, to_file='model_plot.png', show_shapes=True, show_layer_names=True)
```

Out[17]:





Compile the model

Choose an appropriate optimiser and loss function for model training

In [18]:

#Compile the Model

#Adam optimization: is a stochastic gradient descent method that is based on adaptive estimation of first-order and second-order moments.

#categorical_crossentropy: Used as a loss function for multi-class classification model where there are two or more output labels.

```
model.compile(optimizer="Adam",loss="categorical_crossentropy",metrics=["accuracy"])
```

#ModelCheckpoint callback is used in conjunction with training using model.fit() to save a model or weights (in a checkpoint file) at some interval, so the model or weights can be loaded later to continue the training from the state saved.

```
checkpoint = ModelCheckpoint("model.h5",monitor="val_accuracy",save_best_only=True,mode="auto",verbose=1)
```

#Stop training when a monitored metric has stopped improving.

```
earlystop = EarlyStopping(monitor="val_accuracy",patience=5,mode="auto",verbose=1)
```

In [19]:

```
model.summary()
```

Model: "sequential"

Layer (type)	Output Shape	Param #
rescaling (Rescaling)	(None, 180, 180, 3)	0
conv2d (Conv2D)	(None, 178, 178, 32)	896
max_pooling2d (MaxPooling2D)	(None, 89, 89, 32)	0
conv2d_1 (Conv2D)	(None, 87, 87, 64)	18496
max_pooling2d_1 (MaxPooling2D)	(None, 43, 43, 64)	0
conv2d_2 (Conv2D)	(None, 41, 41, 128)	73856
max_pooling2d_2 (MaxPooling2D)	(None, 20, 20, 128)	0
dropout (Dropout)	(None, 20, 20, 128)	0
flatten (Flatten)	(None, 51200)	0
dense (Dense)	(None, 128)	6553728
dropout_1 (Dropout)	(None, 128)	0
dense_1 (Dense)	(None, 9)	1161
Total params: 6,648,137		
Trainable params: 6,648,137		
Non-trainable params: 0		

Train the model

In [20]:

```
# Train the model  
epochs = 20  
history = model.fit(train_ds, validation_data=val_ds, epochs=epochs, callbacks=[checkpoint, earlystop])
```

```
Epoch 1/20
55/56 [=====>.] - ETA: 0s - loss: 2.0473 - accuracy: 0.2449
Epoch 1: val_accuracy improved from -inf to 0.26398, saving model to model.h5
56/56 [=====] - 24s 100ms/step - loss: 2.0444 - accuracy: 0.2461 - val_loss: 1.9051 - val_accuracy: 0.2640
Epoch 2/20
55/56 [=====>.] - ETA: 0s - loss: 1.8498 - accuracy: 0.3028
Epoch 2: val_accuracy improved from 0.26398 to 0.38479, saving model to model.h5
56/56 [=====] - 3s 45ms/step - loss: 1.8486 - accuracy: 0.3019 - val_loss: 1.7120 - val_accuracy: 0.3848
Epoch 3/20
55/56 [=====>.] - ETA: 0s - loss: 1.6342 - accuracy: 0.4216
Epoch 3: val_accuracy improved from 0.38479 to 0.40716, saving model to model.h5
56/56 [=====] - 2s 44ms/step - loss: 1.6365 - accuracy: 0.4196 - val_loss: 1.7609 - val_accuracy: 0.4072
Epoch 4/20
55/56 [=====>.] - ETA: 0s - loss: 1.5468 - accuracy: 0.4642
Epoch 4: val_accuracy improved from 0.40716 to 0.53468, saving model to model.h5
56/56 [=====] - 3s 47ms/step - loss: 1.5408 - accuracy: 0.4671 - val_loss: 1.4419 - val_accuracy: 0.5347
Epoch 5/20
55/56 [=====>.] - ETA: 0s - loss: 1.4314 - accuracy: 0.4960
Epoch 5: val_accuracy improved from 0.53468 to 0.53691, saving model to model.h5
56/56 [=====] - 3s 46ms/step - loss: 1.4294 - accuracy: 0.4972 - val_loss: 1.3900 - val_accuracy: 0.5369
Epoch 6/20
55/56 [=====>.] - ETA: 0s - loss: 1.3849 - accuracy: 0.5074
Epoch 6: val_accuracy did not improve from 0.53691
56/56 [=====] - 2s 40ms/step - loss: 1.3871 - accuracy: 0.5067 - val_loss: 1.3731 - val_accuracy: 0.5257
Epoch 7/20
55/56 [=====>.] - ETA: 0s - loss: 1.3291 - accuracy: 0.5312
Epoch 7: val_accuracy did not improve from 0.53691
56/56 [=====] - 2s 40ms/step - loss: 1.3321 - accuracy: 0.5273 - val_loss: 1.3767 - val_accuracy: 0.5280
Epoch 8/20
55/56 [=====>.] - ETA: 0s - loss: 1.3108 - accuracy: 0.5318
Epoch 8: val_accuracy did not improve from 0.53691
56/56 [=====] - 2s 42ms/step - loss: 1.3109 - accuracy: 0.5329 - val_loss: 1.4842 - val_accuracy: 0.4810
Epoch 9/20
55/56 [=====>.] - ETA: 0s - loss: 1.2681 - accuracy: 0.5597
Epoch 9: val_accuracy did not improve from 0.53691
56/56 [=====] - 2s 40ms/step - loss: 1.2659 - accuracy: 0.5603 - val_loss: 1.4112 - val_accuracy: 0.4899
Epoch 10/20
55/56 [=====>.] - ETA: 0s - loss: 1.1982 - accuracy:
```

```
y: 0.5790
Epoch 10: val_accuracy improved from 0.53691 to 0.55257, saving model to model.h5
56/56 [=====] - 2s 44ms/step - loss: 1.1960 - accuracy: 0.5781 - val_loss: 1.3836 - val_accuracy: 0.5526
Epoch 11/20
55/56 [=====>.] - ETA: 0s - loss: 1.1928 - accuracy: 0.5841
Epoch 11: val_accuracy did not improve from 0.55257
56/56 [=====] - 2s 40ms/step - loss: 1.1922 - accuracy: 0.5854 - val_loss: 1.5922 - val_accuracy: 0.4519
Epoch 12/20
55/56 [=====>.] - ETA: 0s - loss: 1.1526 - accuracy: 0.5920
Epoch 12: val_accuracy did not improve from 0.55257
56/56 [=====] - 2s 40ms/step - loss: 1.1563 - accuracy: 0.5893 - val_loss: 1.3593 - val_accuracy: 0.5145
Epoch 13/20
55/56 [=====>.] - ETA: 0s - loss: 1.0824 - accuracy: 0.6091
Epoch 13: val_accuracy did not improve from 0.55257
56/56 [=====] - 2s 40ms/step - loss: 1.0804 - accuracy: 0.6105 - val_loss: 1.3933 - val_accuracy: 0.5168
Epoch 14/20
55/56 [=====>.] - ETA: 0s - loss: 1.0403 - accuracy: 0.6250
Epoch 14: val_accuracy did not improve from 0.55257
56/56 [=====] - 2s 40ms/step - loss: 1.0400 - accuracy: 0.6250 - val_loss: 1.4187 - val_accuracy: 0.5481
Epoch 15/20
55/56 [=====>.] - ETA: 0s - loss: 0.9634 - accuracy: 0.6562
Epoch 15: val_accuracy improved from 0.55257 to 0.55705, saving model to model.h5
56/56 [=====] - 2s 44ms/step - loss: 0.9628 - accuracy: 0.6562 - val_loss: 1.4449 - val_accuracy: 0.5570
Epoch 16/20
55/56 [=====>.] - ETA: 0s - loss: 0.8918 - accuracy: 0.6653
Epoch 16: val_accuracy did not improve from 0.55705
56/56 [=====] - 2s 40ms/step - loss: 0.8910 - accuracy: 0.6657 - val_loss: 1.5571 - val_accuracy: 0.5280
Epoch 17/20
55/56 [=====>.] - ETA: 0s - loss: 0.8902 - accuracy: 0.6898
Epoch 17: val_accuracy improved from 0.55705 to 0.56152, saving model to model.h5
56/56 [=====] - 2s 44ms/step - loss: 0.8859 - accuracy: 0.6925 - val_loss: 1.5513 - val_accuracy: 0.5615
Epoch 18/20
55/56 [=====>.] - ETA: 0s - loss: 0.8601 - accuracy: 0.6983
Epoch 18: val_accuracy improved from 0.56152 to 0.56600, saving model to model.h5
56/56 [=====] - 2s 44ms/step - loss: 0.8603 - accuracy: 0.6970 - val_loss: 1.5393 - val_accuracy: 0.5660
Epoch 19/20
55/56 [=====>.] - ETA: 0s - loss: 0.8202 - accuracy: 0.7034
Epoch 19: val_accuracy did not improve from 0.56600
56/56 [=====] - 2s 40ms/step - loss: 0.8151 - acc
```

uracy: 0.7048 - val_loss: 1.6757 - val_accuracy: 0.5660

Epoch 20/20

55/56 [=====>.] - ETA: 0s - loss: 0.7234 - accuracy: 0.7460

Epoch 20: val_accuracy did not improve from 0.56600

56/56 [=====] - 2s 40ms/step - loss: 0.7252 - accuracy: 0.7455 - val_loss: 1.7820 - val_accuracy: 0.5101

Visualizing training results

In [21]:

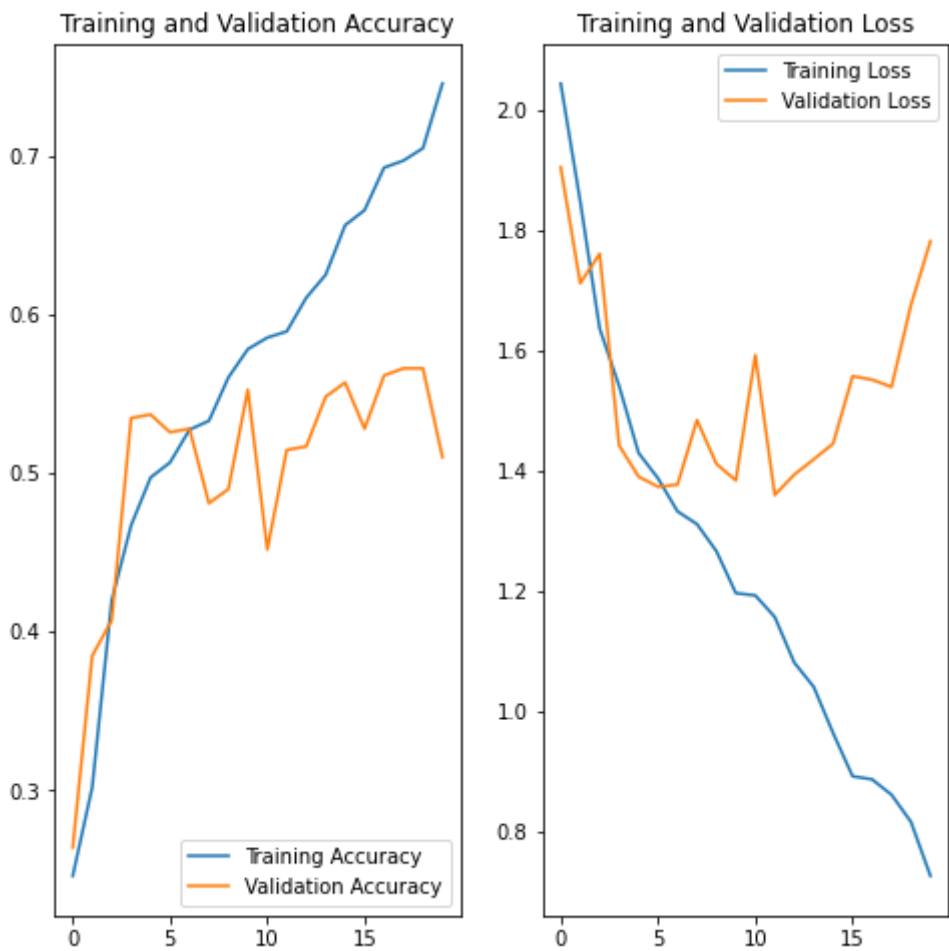
```
acc = history.history['accuracy']
val_acc = history.history['val_accuracy']

loss = history.history['loss']
val_loss = history.history['val_loss']

epochs_range = range(epochs)

plt.figure(figsize=(8, 8))
plt.subplot(1, 2, 1)
plt.plot(epochs_range, acc, label='Training Accuracy')
plt.plot(epochs_range, val_acc, label='Validation Accuracy')
plt.legend(loc='lower right')
plt.title('Training and Validation Accuracy')

plt.subplot(1, 2, 2)
plt.plot(epochs_range, loss, label='Training Loss')
plt.plot(epochs_range, val_loss, label='Validation Loss')
plt.legend(loc='upper right')
plt.title('Training and Validation Loss')
plt.show()
```



In [22]:

```
loss, accuracy = model.evaluate(train_ds, verbose=1,)
loss_v, accuracy_v = model.evaluate(val_ds, verbose=1)

print("Accuracy: ", accuracy)
print("Validation Accuracy: ", accuracy_v)
print("Loss: ", loss)
print("Validation Loss", loss_v)

# Thus we can clearly that model Overfit and we need to chose right data augmentation
strategy
```

```
56/56 [=====] - 1s 18ms/step - loss: 0.6570 - acc
uracy: 0.7807
14/14 [=====] - 0s 18ms/step - loss: 1.7820 - acc
uracy: 0.5101
Accuracy: 0.7806919813156128
Validation Accuracy: 0.5100671052932739
Loss: 0.6569952964782715
Validation Loss 1.7819679975509644
```

Findings after the model fit:

We see that after 20 epochs the validation data accuracy is lower than training data hence the model is overfitting and we need to chose right data augmentation strategy

In [23]:

Todo, after you have analysed the model fit history for presence of underfit or overfit, choose an appropriate data augmentation strategy.

```
from keras.preprocessing.image import ImageDataGenerator

datagen = ImageDataGenerator(
    featurewise_center=False, # set input mean to 0 over the dataset
    samplewise_center=False, # set each sample mean to 0
    featurewise_std_normalization=False, # divide inputs by std of the dataset
    samplewise_std_normalization=False, # divide each input by its std
    zca_whitening=False, # apply ZCA whitening
    rotation_range=10, # randomly rotate images in the range (degrees, 0 to 180)
    zoom_range = 0.1, # Randomly zoom image
    width_shift_range=0.1, # randomly shift images horizontally (fraction of total
width)
    height_shift_range=0.1, # randomly shift images vertically (fraction of total
height)
    horizontal_flip=False, # randomly flip images
    vertical_flip=False) # randomly flip images

image_class = ['nevus', 'melanoma', 'basal_cell_caricoma', 'actinic_keratosis', 'vasc_lesio
n', 'dermatofibroma', 'pigmented_keratosis', 'seborrheic_keratosis', 'squamous_carci']

train_batches = datagen.flow_from_directory(data_dir_train,
    target_size = (180,180),
    classes = image_class,
    batch_size = 64
)

valid_batches = datagen.flow_from_directory(data_dir_test,
    target_size = (180,180),
    classes = image_class,
    batch_size = 64
)
```

Found 890 images belonging to 9 classes.

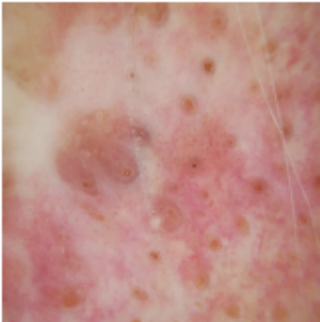
Found 48 images belonging to 9 classes.

In [25]:

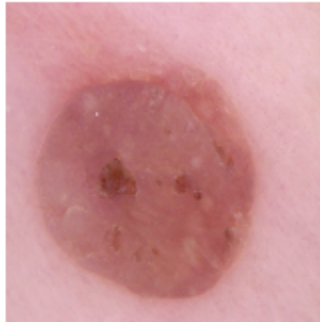
```
# visualize how your augmentation strategy works for one instance of training image.
import matplotlib.pyplot as plt

plt.figure(figsize=(10, 10))
for images, labels in train_ds.take(1):
    for i in range(9):
        ax = plt.subplot(3, 3, i + 1)
        plt.imshow(images[i].numpy().astype("uint8"))
        #print(labels[i])
        plt.title(class_names[i])
        plt.axis("off")
```

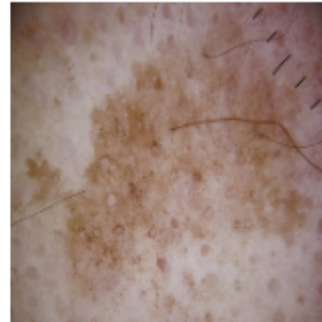
actinic keratosis



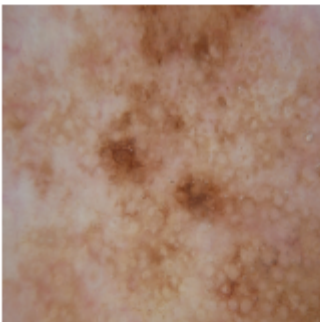
basal cell carcinoma



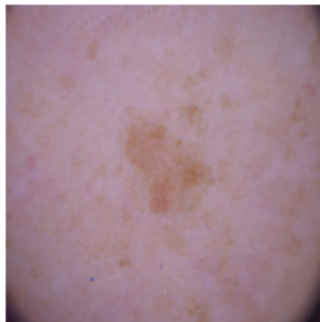
dermatofibroma



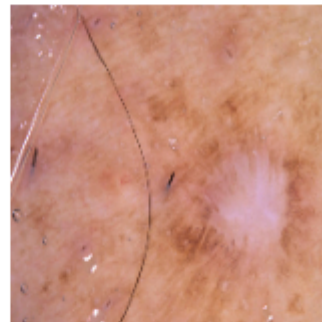
melanoma



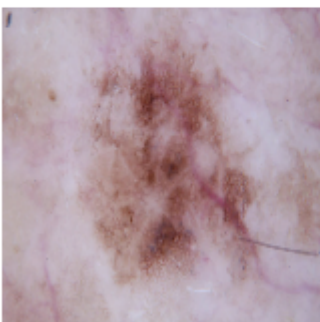
nevus



pigmented benign keratosis



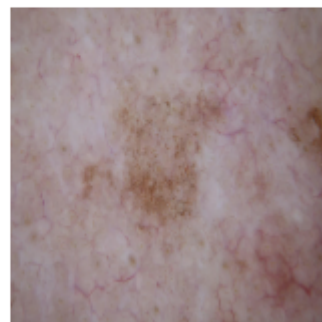
seborrheic keratosis



squamous cell carcinoma



vascular lesion



Create the model, compile and train the model

New model with additional image data

In [37]:

```
## You can use Dropout layer if there is an evidence of overfitting in your findings

from tensorflow.python.keras.layers import Dense, Dropout, Activation, Flatten, Conv2D,
MaxPool2D

input_shape = (180,180,3)
lr = 1e-5
init = 'normal'
activ = 'relu'

preprocessing_layers = [
    tf.keras.layers.experimental.preprocessing.Rescaling(1./255, input_shape=(180, 180,
3))
]

model = Sequential()
model.add(layers.experimental.preprocessing.Rescaling(1./255,input_shape=(180,180,3)))
```

In [38]:

```
# Increase the model size by adding another 32 Layer
model.add(Conv2D(32, kernel_size=(3, 3), activation='relu', padding='same', input_shape
=input_shape))
model.add(Conv2D(32, kernel_size=(3, 3), activation='relu', padding='same'))
# Max Pool size of 2*2
model.add(MaxPool2D(pool_size=(2, 2)))
# Adding Dropout Layer
model.add(Dropout(0.25))

model.add(Conv2D(64, kernel_size=(3, 3), activation='relu', padding = 'Same'))
model.add(Conv2D(64, kernel_size=(3, 3), activation='relu', padding = 'Same'))
model.add(MaxPool2D(pool_size=(2, 2)))
model.add(Dropout(0.4))

model.add(Conv2D(128, kernel_size=(3, 3), activation='relu'))
model.add(MaxPool2D(pool_size=(2, 2)))
model.add(Dropout(0.4))

model.add(Flatten())

model.add(Dense(512, activation='relu'))
model.add(Dropout(0.5))
model.add(Dense(9, activation='softmax'))

model.summary()
```

Model: "sequential_6"

Layer (type)	Output Shape	Param #
rescaling_4 (Rescaling)	(None, 180, 180, 3)	0
module_wrapper_45 (ModuleWrapper)	(None, 180, 180, 32)	896
module_wrapper_46 (ModuleWrapper)	(None, 180, 180, 32)	9248
module_wrapper_47 (ModuleWrapper)	(None, 90, 90, 32)	0
module_wrapper_48 (ModuleWrapper)	(None, 90, 90, 32)	0
module_wrapper_49 (ModuleWrapper)	(None, 90, 90, 64)	18496
module_wrapper_50 (ModuleWrapper)	(None, 90, 90, 64)	36928
module_wrapper_51 (ModuleWrapper)	(None, 45, 45, 64)	0
module_wrapper_52 (ModuleWrapper)	(None, 45, 45, 64)	0
module_wrapper_53 (ModuleWrapper)	(None, 43, 43, 128)	73856
module_wrapper_54 (ModuleWrapper)	(None, 21, 21, 128)	0
module_wrapper_55 (ModuleWrapper)	(None, 21, 21, 128)	0
module_wrapper_56 (ModuleWrapper)	(None, 56448)	0
module_wrapper_57 (ModuleWrapper)	(None, 512)	28901888
module_wrapper_58 (ModuleWrapper)	(None, 512)	0
module_wrapper_59 (ModuleWrapper)	(None, 9)	4617
Total params: 29,045,929		
Trainable params: 29,045,929		
Non-trainable params: 0		

Compiling the model

In [39]:

```
optimizer = Adam(learning_rate=0.001, beta_1=0.9, beta_2=0.999, epsilon=None, decay=0.0, amsgrad=False)

model.compile(loss='categorical_crossentropy',
              optimizer=optimizer,
              metrics=['accuracy'])
```

In [41]:

```
# Set a Learning rate annealer
from keras.callbacks import ReduceLRonPlateau

learning_rate_reduction = ReduceLRonPlateau(monitor='val_accuracy',
      patience=3,
      verbose=1,
      factor=0.5,
      min_lr=0.00001)
```

Training the model

In [42]:

```
## Your code goes here, note: train your model for 20 epochs  
epochs = 20  
batch_size = 10  
history = model.fit(train_batches,  
    epochs = epochs, verbose = 1, validation_data=valid_batches , callbacks=[learning_rate_reduction])
```

Epoch 1/20
14/14 [=====] - 39s 3s/step - loss: 1.9151 - accuracy: 0.4191 - val_loss: 1.6102 - val_accuracy: 0.3333 - lr: 0.0010
Epoch 2/20
14/14 [=====] - 31s 2s/step - loss: 1.0321 - accuracy: 0.4989 - val_loss: 1.6489 - val_accuracy: 0.3333 - lr: 0.0010
Epoch 3/20
14/14 [=====] - 31s 2s/step - loss: 1.0189 - accuracy: 0.4337 - val_loss: 1.4549 - val_accuracy: 0.3333 - lr: 0.0010
Epoch 4/20
14/14 [=====] - 31s 2s/step - loss: 0.9668 - accuracy: 0.4809 - val_loss: 1.3399 - val_accuracy: 0.3542 - lr: 0.0010
Epoch 5/20
14/14 [=====] - 31s 2s/step - loss: 0.9006 - accuracy: 0.5000 - val_loss: 1.1629 - val_accuracy: 0.3958 - lr: 0.0010
Epoch 6/20
14/14 [=====] - 31s 2s/step - loss: 0.8966 - accuracy: 0.5270 - val_loss: 1.3232 - val_accuracy: 0.3125 - lr: 0.0010
Epoch 7/20
14/14 [=====] - 31s 2s/step - loss: 0.8057 - accuracy: 0.5831 - val_loss: 1.0263 - val_accuracy: 0.3750 - lr: 0.0010
Epoch 8/20
14/14 [=====] - 31s 2s/step - loss: 0.8258 - accuracy: 0.5685 - val_loss: 1.1830 - val_accuracy: 0.4792 - lr: 0.0010
Epoch 9/20
14/14 [=====] - 31s 2s/step - loss: 0.7463 - accuracy: 0.6416 - val_loss: 1.2875 - val_accuracy: 0.3958 - lr: 0.0010
Epoch 10/20
14/14 [=====] - 31s 2s/step - loss: 0.7412 - accuracy: 0.6449 - val_loss: 1.2016 - val_accuracy: 0.5208 - lr: 0.0010
Epoch 11/20
14/14 [=====] - 31s 2s/step - loss: 0.7072 - accuracy: 0.6719 - val_loss: 1.2876 - val_accuracy: 0.5208 - lr: 0.0010
Epoch 12/20
14/14 [=====] - 30s 2s/step - loss: 0.6787 - accuracy: 0.6865 - val_loss: 1.1203 - val_accuracy: 0.5208 - lr: 0.0010
Epoch 13/20
14/14 [=====] - ETA: 0s - loss: 0.7705 - accuracy: 0.6056
Epoch 13: ReduceLROnPlateau reducing learning rate to 0.0005000000237487257.
14/14 [=====] - 31s 2s/step - loss: 0.7705 - accuracy: 0.6056 - val_loss: 1.2300 - val_accuracy: 0.5208 - lr: 0.0010
Epoch 14/20
14/14 [=====] - 32s 2s/step - loss: 0.7387 - accuracy: 0.6270 - val_loss: 1.1073 - val_accuracy: 0.5833 - lr: 5.0000e-04
Epoch 15/20
14/14 [=====] - 31s 2s/step - loss: 0.6543 - accuracy: 0.6865 - val_loss: 1.3965 - val_accuracy: 0.5208 - lr: 5.0000e-04
Epoch 16/20
14/14 [=====] - 31s 2s/step - loss: 0.6747 - accuracy: 0.6573 - val_loss: 1.3066 - val_accuracy: 0.3958 - lr: 5.0000e-04
Epoch 17/20
14/14 [=====] - ETA: 0s - loss: 0.6606 - accuracy: 0.6921
Epoch 17: ReduceLROnPlateau reducing learning rate to 0.0002500000118743628.
14/14 [=====] - 30s 2s/step - loss: 0.6606 - accuracy: 0.6921 - val_loss: 1.2471 - val_accuracy: 0.5208 - lr: 5.0000e-04
Epoch 18/20
14/14 [=====] - 32s 2s/step - loss: 0.6123 - accuracy:

```
racy: 0.6944 - val_loss: 1.2923 - val_accuracy: 0.5417 - lr: 2.5000e-04
Epoch 19/20
14/14 [=====] - 31s 2s/step - loss: 0.6250 - accu
racy: 0.7157 - val_loss: 1.2286 - val_accuracy: 0.5417 - lr: 2.5000e-04
Epoch 20/20
14/14 [=====] - ETA: 0s - loss: 0.6007 - accurac
y: 0.7202
Epoch 20: ReduceLROnPlateau reducing learning rate to 0.000125000005937181
4.
14/14 [=====] - 31s 2s/step - loss: 0.6007 - accu
racy: 0.7202 - val_loss: 1.2002 - val_accuracy: 0.5208 - lr: 2.5000e-04
```

Visualizing the results

In [43]:

```
acc = history.history['accuracy']
print(history.history.keys, ":")
val_acc = history.history['val_accuracy']

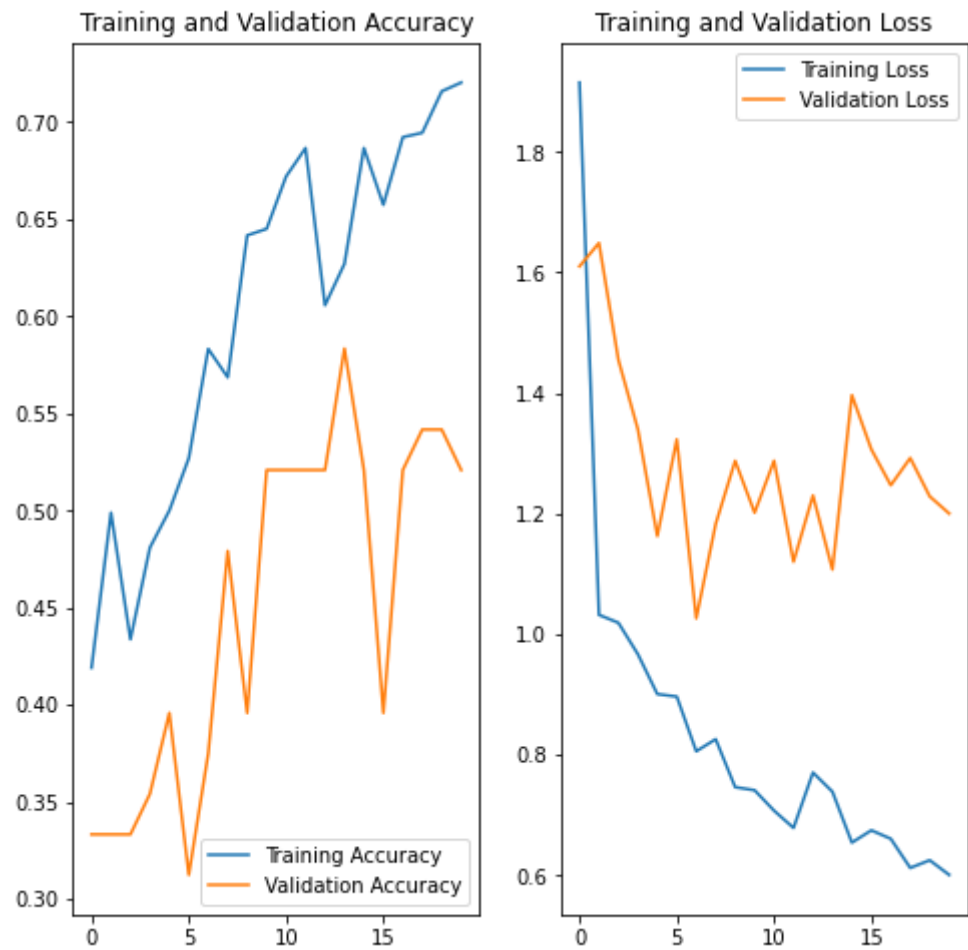
loss = history.history['loss']
val_loss = history.history['val_loss']

epochs_range = range(epochs)

plt.figure(figsize=(8, 8))
plt.subplot(1, 2, 1)
plt.plot(epochs_range, acc, label='Training Accuracy')
plt.plot(epochs_range, val_acc, label='Validation Accuracy')
plt.legend(loc='lower right')
plt.title('Training and Validation Accuracy')

plt.subplot(1, 2, 2)
plt.plot(epochs_range, loss, label='Training Loss')
plt.plot(epochs_range, val_loss, label='Validation Loss')
plt.legend(loc='upper right')
plt.title('Training and Validation Loss')
plt.show()
```

<built-in method keys of dict object at 0x7f421c318fa0> :



In [44]:

```
loss, accuracy = model.evaluate(train_ds, verbose=1,)  
loss_v, accuracy_v = model.evaluate(val_ds, verbose=1)
```

```
print("Accuracy: ", accuracy)  
print("Validation Accuracy: ", accuracy_v)  
print("Loss: ", loss)  
print("Validation Loss", loss_v)
```

```
56/56 [=====] - 2s 32ms/step - loss: 6.6213 - acc  
uracy: 0.1016
```

```
14/14 [=====] - 1s 69ms/step - loss: 7.0160 - acc  
uracy: 0.0805
```

```
Accuracy: 0.1015625
```

```
Validation Accuracy: 0.08053690940141678
```

```
Loss: 6.621279239654541
```

```
Validation Loss 7.015986442565918
```

Findings: The accuracy is very very low hence we need to retrain the model with augmented data

Todo: Find the distribution of classes in the training dataset.

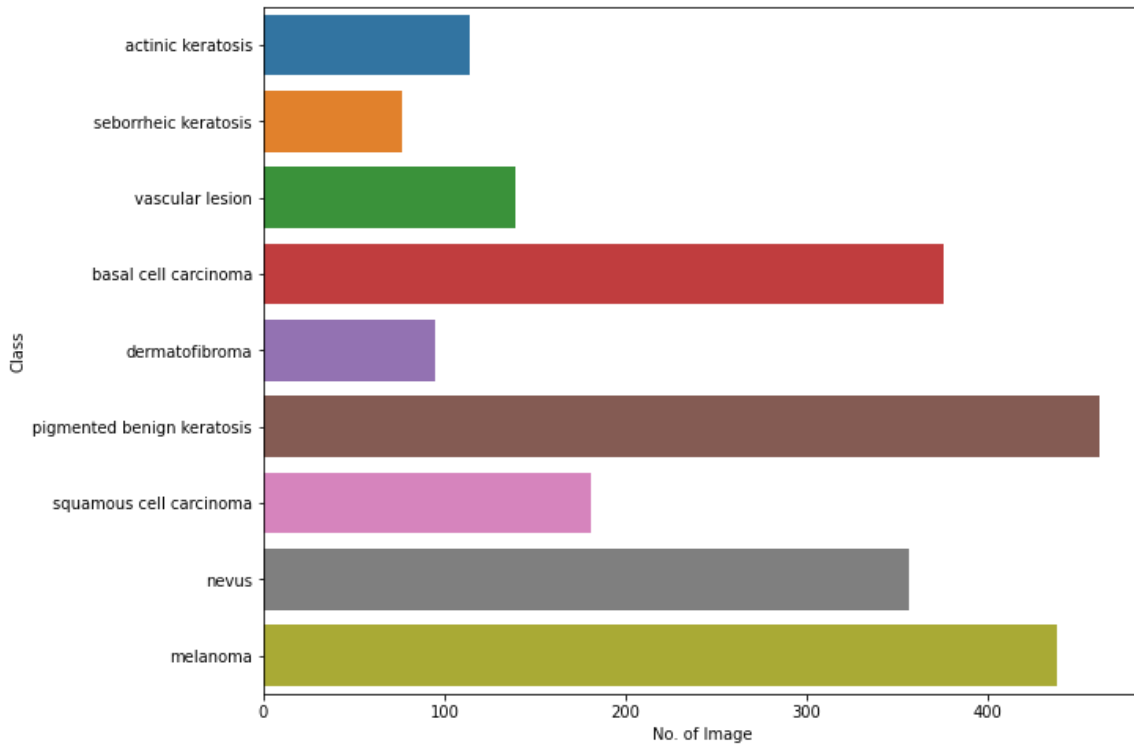
Context: Many times real life datasets can have class imbalance, one class can have proportionately higher number of samples compared to the others. Class imbalance can have a detrimental effect on the final model quality. Hence as a sanity check it becomes important to check what is the distribution of classes in the data.

In [47]:

```
#Visualize the Number of image in each class.  
import seaborn as sns  
plt.figure(figsize=(10, 8))  
sns.barplot(x="No. of Image", y="Class", data=df,  
            label="Class")
```

Out[47]:

<matplotlib.axes._subplots.AxesSubplot at 0x7f421dce0a10>



Write your findings here:

- Which class has the least number of samples? - Actinic Keratosos, dermatofibroma and Seborrheic keratosis

- Which classes dominate the data in terms proportionate number of samples? - Pigmented Benign keratosis, melanoma

In [48]:

```
!pip install Augmentor
```

Looking in indexes: <https://pypi.org/simple>, <https://us-python.pkg.dev/colab-wheels/public/simple/>

Collecting Augmentor

Downloading Augmentor-0.2.10-py2.py3-none-any.whl (38 kB)

Requirement already satisfied: numpy>=1.11.0 in /usr/local/lib/python3.7/dist-packages (from Augmentor) (1.21.6)

Requirement already satisfied: Pillow>=5.2.0 in /usr/local/lib/python3.7/dist-packages (from Augmentor) (7.1.2)

Requirement already satisfied: future>=0.16.0 in /usr/local/lib/python3.7/dist-packages (from Augmentor) (0.16.0)

Requirement already satisfied: tqdm>=4.9.0 in /usr/local/lib/python3.7/dist-packages (from Augmentor) (4.64.1)

Installing collected packages: Augmentor

Successfully installed Augmentor-0.2.10

In [49]:

```
path_to_training_dataset="/content/Skin cancer ISIC The International Skin Imaging Collaboration/Train/"
import Augmentor
for i in class_names:
    p = Augmentor.Pipeline(path_to_training_dataset + i)
    p.rotate(probability=0.7, max_left_rotation=10, max_right_rotation=10)
    p.sample(500) #Adding 500 samples per class to make sure that none of the classes are sparse
```

Initialised with 114 image(s) found.

Output directory set to /content/Skin cancer ISIC The International Skin I
maging Collaboration/Train/actinic keratosis/output.

Processing <PIL.Image.Image image mode=RGB size=600x450 at 0x7F423610C8D0
>: 100%|██████████| 500/500 [00:18<00:00, 26.41 Samples/s]

Initialised with 376 image(s) found.

Output directory set to /content/Skin cancer ISIC The International Skin I
maging Collaboration/Train/basal cell carcinoma/output.

Processing <PIL.Image.Image image mode=RGB size=600x450 at 0x7F421DED2C10
>: 100%|██████████| 500/500 [00:17<00:00, 27.96 Samples/s]

Initialised with 95 image(s) found.

Output directory set to /content/Skin cancer ISIC The International Skin I
maging Collaboration/Train/dermatofibroma/output.

Processing <PIL.Image.Image image mode=RGB size=600x450 at 0x7F4236032210
>: 100%|██████████| 500/500 [00:18<00:00, 26.73 Samples/s]

Initialised with 438 image(s) found.

Output directory set to /content/Skin cancer ISIC The International Skin I
maging Collaboration/Train/melanoma/output.

Processing <PIL.JpegImagePlugin.JpegImageFile image mode=RGB size=919x802
at 0x7F421DDD1F10>: 100%|██████████| 500/500 [01:42<00:00, 4.88 Samples/
s]

Initialised with 357 image(s) found.

Output directory set to /content/Skin cancer ISIC The International Skin I
maging Collaboration/Train/nevus/output.

Processing <PIL.Image.Image image mode=RGB size=767x576 at 0x7F421DCF44D0
>: 100%|██████████| 500/500 [01:20<00:00, 6.24 Samples/s]

Initialised with 462 image(s) found.

Output directory set to /content/Skin cancer ISIC The International Skin I
maging Collaboration/Train/pigmented benign keratosis/output.

Processing <PIL.Image.Image image mode=RGB size=600x450 at 0x7F423615B6D0
>: 100%|██████████| 500/500 [00:18<00:00, 27.77 Samples/s]

Initialised with 77 image(s) found.

Output directory set to /content/Skin cancer ISIC The International Skin I
maging Collaboration/Train/seborrheic keratosis/output.

Processing <PIL.Image.Image image mode=RGB size=1024x768 at 0x7F4298AEE450
>: 100%|██████████| 500/500 [00:44<00:00, 11.21 Samples/s]

Initialised with 181 image(s) found.

Output directory set to /content/Skin cancer ISIC The International Skin I
maging Collaboration/Train/squamous cell carcinoma/output.

Processing <PIL.JpegImagePlugin.JpegImageFile image mode=RGB size=600x450
at 0x7F421DE83610>: 100%|██████████| 500/500 [00:17<00:00, 29.17 Samples/
s]

Initialised with 139 image(s) found.

Output directory set to /content/Skin cancer ISIC The International Skin I
maging Collaboration/Train/vascular lesion/output.

```
Processing <PIL.JpegImagePlugin.JpegImageFile image mode=RGB size=600x450  
at 0x7F429AA05C90>: 100%|██████████| 500/500 [00:17<00:00, 28.28 Samples/  
s]
```

Augmentor has stored the augmented images in the output sub-directory of each of the sub-directories of skin cancer types.. Lets take a look at total count of augmented images.

In [50]:

```
#Count total number of image generated by Augmentor.  
image_count_train = len(list(data_dir_train.glob('*output/*.jpg')))  
print(image_count_train)
```

4500

Lets see the distribution of augmented data after adding new images to the original training data.

In [53]:

```
from glob import glob

path_list = [x for x in glob(os.path.join(data_dir_train, '*', 'output', '*.jpg'))]
path_list
```

Out[53]:

```
[ '/content/Skin cancer ISIC The International Skin Imaging Collaboration/T
rain/actinic keratosis/output/actinic keratosis_original_ISIC_0027172.jpg_
2032c11a-031c-4ba9-8a6f-5bf577fa6298.jpg',
  '/content/Skin cancer ISIC The International Skin Imaging Collaboration/T
rain/actinic keratosis/output/actinic keratosis_original_ISIC_0030142.jpg_
e978d3f8-48fa-4edf-8709-43f217b2baba.jpg',
  '/content/Skin cancer ISIC The International Skin Imaging Collaboration/T
rain/actinic keratosis/output/actinic keratosis_original_ISIC_0026575.jpg_
9e1fafe0-c24d-43cc-a023-f8c96c4e974e.jpg',
  '/content/Skin cancer ISIC The International Skin Imaging Collaboration/T
rain/actinic keratosis/output/actinic keratosis_original_ISIC_0026650.jpg_
08ba1ec5-e064-4b6d-9ce0-284ddc5bc55f.jpg',
  '/content/Skin cancer ISIC The International Skin Imaging Collaboration/T
rain/actinic keratosis/output/actinic keratosis_original_ISIC_0029830.jpg_
d75db7a5-e487-4766-ba89-0550152df82b.jpg',
  '/content/Skin cancer ISIC The International Skin Imaging Collaboration/T
rain/actinic keratosis/output/actinic keratosis_original_ISIC_0032437.jpg_
e8dcf12b-9abe-4320-8674-42e3152b5d61.jpg',
  '/content/Skin cancer ISIC The International Skin Imaging Collaboration/T
rain/actinic keratosis/output/actinic keratosis_original_ISIC_0029210.jpg_
a379c136-17a4-4d87-9158-38cc69ad5c5e.jpg',
  '/content/Skin cancer ISIC The International Skin Imaging Collaboration/T
rain/actinic keratosis/output/actinic keratosis_original_ISIC_0027615.jpg_
75fb4e5b-3223-45ce-92a7-1450a7c48d4f.jpg',
  '/content/Skin cancer ISIC The International Skin Imaging Collaboration/T
rain/actinic keratosis/output/actinic keratosis_original_ISIC_0026626.jpg_
c2394295-9eba-4137-a8e7-f9c802be46bd.jpg',
  '/content/Skin cancer ISIC The International Skin Imaging Collaboration/T
rain/actinic keratosis/output/actinic keratosis_original_ISIC_0027447.jpg_
ab0f3679-a656-47b4-be28-0684c30251b1.jpg',
  '/content/Skin cancer ISIC The International Skin Imaging Collaboration/T
rain/actinic keratosis/output/actinic keratosis_original_ISIC_0027950.jpg_
57b7169f-1602-404f-ba05-93a4a374f45a.jpg',
  '/content/Skin cancer ISIC The International Skin Imaging Collaboration/T
rain/actinic keratosis/output/actinic keratosis_original_ISIC_0027802.jpg_
c407162b-5f36-4b6d-8ce0-8725a75cd861.jpg',
  '/content/Skin cancer ISIC The International Skin Imaging Collaboration/T
rain/actinic keratosis/output/actinic keratosis_original_ISIC_0031292.jpg_
720b04d1-bc50-4ddf-93fa-9c6633d204b2.jpg',
  '/content/Skin cancer ISIC The International Skin Imaging Collaboration/T
rain/actinic keratosis/output/actinic keratosis_original_ISIC_0027580.jpg_
12a64bff-a259-47aa-8da4-718c163f5cfd.jpg',
  '/content/Skin cancer ISIC The International Skin Imaging Collaboration/T
rain/actinic keratosis/output/actinic keratosis_original_ISIC_0029141.jpg_
3118f0b0-b5ed-4512-8d59-56ddaeb2b80f.jpg',
  '/content/Skin cancer ISIC The International Skin Imaging Collaboration/T
rain/actinic keratosis/output/actinic keratosis_original_ISIC_0029210.jpg_
13c9874e-36ec-420b-8244-f58e56f75535.jpg',
  '/content/Skin cancer ISIC The International Skin Imaging Collaboration/T
rain/actinic keratosis/output/actinic keratosis_original_ISIC_0026709.jpg_
9f000330-7780-48c0-90fe-cc5d447ece17.jpg',
  '/content/Skin cancer ISIC The International Skin Imaging Collaboration/T
rain/actinic keratosis/output/actinic keratosis_original_ISIC_0027650.jpg_
d4983f78-ce00-49ea-a4c4-3ce57f340fc6.jpg',
  '/content/Skin cancer ISIC The International Skin Imaging Collaboration/T
rain/actinic keratosis/output/actinic keratosis_original_ISIC_0026625.jpg_
0bce8b0a-07ce-4a6e-bcb0-dfc5e48003a0.jpg',
  '/content/Skin cancer ISIC The International Skin Imaging Collaboration/T
rain/actinic keratosis/output/actinic keratosis_original_ISIC_0026194.jpg_
```

e5c2731b-460e-4802-abd3-c1b68cba4082.jpg',
'/content/Skin cancer ISIC The International Skin Imaging Collaboration/T
rain/actinic keratosis/output/actinic keratosis_original_ISIC_0032422.jpg_
6c5ebfae-14c0-44f6-99d1-0f5569180d59.jpg',
'/content/Skin cancer ISIC The International Skin Imaging Collaboration/T
rain/actinic keratosis/output/actinic keratosis_original_ISIC_0033705.jpg_
645e59c1-7dfe-44c1-b8a5-7c321067cec0.jpg',
'/content/Skin cancer ISIC The International Skin Imaging Collaboration/T
rain/actinic keratosis/output/actinic keratosis_original_ISIC_0026525.jpg_
75035f7d-3888-4316-a1e5-4bd29201770b.jpg',
'/content/Skin cancer ISIC The International Skin Imaging Collaboration/T
rain/actinic keratosis/output/actinic keratosis_original_ISIC_0030408.jpg_
d4eb015d-9d17-4f72-b9b8-6d9d9afc34af.jpg',
'/content/Skin cancer ISIC The International Skin Imaging Collaboration/T
rain/actinic keratosis/output/actinic keratosis_original_ISIC_0025825.jpg_
12e89b1f-1883-41da-94ea-c3bd48a7e073.jpg',
'/content/Skin cancer ISIC The International Skin Imaging Collaboration/T
rain/actinic keratosis/output/actinic keratosis_original_ISIC_0030825.jpg_
73b0ecfd-fb2c-4b18-9819-0e127f509824.jpg',
'/content/Skin cancer ISIC The International Skin Imaging Collaboration/T
rain/actinic keratosis/output/actinic keratosis_original_ISIC_0029141.jpg_
d2f6c931-b941-496b-a568-d196812fb01f.jpg',
'/content/Skin cancer ISIC The International Skin Imaging Collaboration/T
rain/actinic keratosis/output/actinic keratosis_original_ISIC_0026984.jpg_
8a27d315-7cf7-46bd-a0cc-ac2b37473b54.jpg',
'/content/Skin cancer ISIC The International Skin Imaging Collaboration/T
rain/actinic keratosis/output/actinic keratosis_original_ISIC_0029210.jpg_
00f3e58e-2523-4ffa-ad23-42189cf346fd.jpg',
'/content/Skin cancer ISIC The International Skin Imaging Collaboration/T
rain/actinic keratosis/output/actinic keratosis_original_ISIC_0027896.jpg_
73a4491f-d7ac-46b2-a38c-c05064507dcc.jpg',
'/content/Skin cancer ISIC The International Skin Imaging Collaboration/T
rain/actinic keratosis/output/actinic keratosis_original_ISIC_0029659.jpg_
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  ...]
```

In [54]:

```
lesion_list_new = [os.path.basename(os.path.dirname(os.path.dirname(y))) for y in glob(
os.path.join(data_dir_train, '*', 'output', '*.jpg'))]
lesion_list_new
```


Out[54]:

[illegible]

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[illegible]

In [60]:

```
batch_size = 32
img_height = 180
img_width = 180
```

Train the model on the data created using Augmentor

Create training dataset

In [61]:

```
train_ds = tf.keras.preprocessing.image_dataset_from_directory(data_dir_train, batch_size=batch_size,
                                                                image_size=(img_height, img_width), label_mode='categorical',
                                                                seed=123, subset="training",
                                                                validation_split=0.2)
```

Found 6739 files belonging to 9 classes.
Using 5392 files for training.

Create validation dataset

In [62]:

```
# validation dataset
val_ds = tf.keras.preprocessing.image_dataset_from_directory(data_dir_train, batch_size=batch_size,
                                                             image_size=(img_height, img_width), label_mode='categorical',
                                                             seed=123, subset="validation",
                                                             validation_split=0.2)
```

Found 6739 files belonging to 9 classes.
Using 1347 files for validation.

Create your model (with normalization)

In [63]:

```
#CNN Model Architecture

#Sequential allows you to create models layer-by-layer
model = Sequential()

model.add(layers.experimental.preprocessing.Rescaling(1./255, input_shape=(180,180,3)))
#Rescaling Layer

#First Convolution Layer
model.add(layers.Conv2D(32, kernel_size=(3,3), activation='relu'))
model.add(layers.MaxPool2D(pool_size=(2,2)))

#Second Convolution Layer
model.add(layers.Conv2D(64, kernel_size=(3,3), activation='relu'))
model.add(layers.MaxPool2D(pool_size=(2,2)))

#Third Convolution Layer
model.add(layers.Conv2D(128, kernel_size=(3,3), activation='relu'))
model.add(layers.MaxPool2D(pool_size=(2,2)))

#Dropout Layer with 50% Fraction of the input units to drop.
model.add(layers.Dropout(0.5))

#Flatten Layer
##Keras.layers.flatten function flattens the multi-dimensional input tensors into a single dimension.
model.add(layers.Flatten())

#Dense Layer
model.add(layers.Dense(128, activation='relu'))

#Dropout Layer with 25% Fraction of the input units to drop.
model.add(layers.Dropout(0.25))

#Dense Layer with softmax activation function.
#Softmax is an activation function that scales numbers/logits into probabilities.
model.add(layers.Dense(len(class_names), activation='softmax'))

model.summary()
```

Model: "sequential_7"

Layer (type)	Output Shape	Param #
rescaling_5 (Rescaling)	(None, 180, 180, 3)	0
conv2d_3 (Conv2D)	(None, 178, 178, 32)	896
max_pooling2d_3 (MaxPooling 2D)	(None, 89, 89, 32)	0
conv2d_4 (Conv2D)	(None, 87, 87, 64)	18496
max_pooling2d_4 (MaxPooling 2D)	(None, 43, 43, 64)	0
conv2d_5 (Conv2D)	(None, 41, 41, 128)	73856
max_pooling2d_5 (MaxPooling 2D)	(None, 20, 20, 128)	0
dropout_2 (Dropout)	(None, 20, 20, 128)	0
flatten_1 (Flatten)	(None, 51200)	0
dense_2 (Dense)	(None, 128)	6553728
dropout_3 (Dropout)	(None, 128)	0
dense_3 (Dense)	(None, 9)	1161
Total params: 6,648,137		
Trainable params: 6,648,137		
Non-trainable params: 0		

Compile your model (Choose optimizer and loss function appropriately)

In [64]:

```
optimizer = Adam(learning_rate=0.001, beta_1=0.9, beta_2=0.999, epsilon=None, decay=0.0, amsgrad=False)

model.compile(loss='categorical_crossentropy',
              optimizer=optimizer,
              metrics=['accuracy'])
```

Train your model

In [65]:

```
epochs = 50

learning_rate_reduction = ReduceLRonPlateau(monitor='val_accuracy',
      patience=3,
      verbose=1,
      factor=0.5,
      min_lr=0.00001)

batch_size = 10
history = model.fit(train_ds,
      epochs = epochs, verbose = 1, validation_data=val_ds , callbacks=[learning_rate_reduction])
```

Epoch 1/50
169/169 [=====] - 30s 163ms/step - loss: 1.9399 - accuracy: 0.2596 - val_loss: 1.6364 - val_accuracy: 0.3898 - lr: 0.0010
Epoch 2/50
169/169 [=====] - 34s 196ms/step - loss: 1.5609 - accuracy: 0.4000 - val_loss: 1.3808 - val_accuracy: 0.4900 - lr: 0.0010
Epoch 3/50
169/169 [=====] - 35s 201ms/step - loss: 1.4058 - accuracy: 0.4681 - val_loss: 1.2649 - val_accuracy: 0.5145 - lr: 0.0010
Epoch 4/50
169/169 [=====] - 30s 173ms/step - loss: 1.2898 - accuracy: 0.5056 - val_loss: 1.2203 - val_accuracy: 0.5278 - lr: 0.0010
Epoch 5/50
169/169 [=====] - 28s 158ms/step - loss: 1.1781 - accuracy: 0.5545 - val_loss: 1.0362 - val_accuracy: 0.6095 - lr: 0.0010
Epoch 6/50
169/169 [=====] - 27s 154ms/step - loss: 1.0463 - accuracy: 0.6044 - val_loss: 1.0438 - val_accuracy: 0.5895 - lr: 0.0010
Epoch 7/50
169/169 [=====] - 27s 153ms/step - loss: 0.9863 - accuracy: 0.6302 - val_loss: 0.9905 - val_accuracy: 0.6563 - lr: 0.0010
Epoch 8/50
169/169 [=====] - 29s 167ms/step - loss: 0.8636 - accuracy: 0.6771 - val_loss: 0.8844 - val_accuracy: 0.6793 - lr: 0.0010
Epoch 9/50
169/169 [=====] - 27s 155ms/step - loss: 0.8092 - accuracy: 0.7012 - val_loss: 0.8216 - val_accuracy: 0.7142 - lr: 0.0010
Epoch 10/50
169/169 [=====] - 27s 155ms/step - loss: 0.7415 - accuracy: 0.7259 - val_loss: 0.8280 - val_accuracy: 0.7105 - lr: 0.0010
Epoch 11/50
169/169 [=====] - 27s 155ms/step - loss: 0.6468 - accuracy: 0.7572 - val_loss: 0.8048 - val_accuracy: 0.7127 - lr: 0.0010
Epoch 12/50
169/169 [=====] - 27s 155ms/step - loss: 0.6108 - accuracy: 0.7698 - val_loss: 0.6968 - val_accuracy: 0.7587 - lr: 0.0010
Epoch 13/50
169/169 [=====] - 27s 155ms/step - loss: 0.5999 - accuracy: 0.7799 - val_loss: 0.6645 - val_accuracy: 0.7751 - lr: 0.0010
Epoch 14/50
169/169 [=====] - 27s 154ms/step - loss: 0.5282 - accuracy: 0.8042 - val_loss: 0.6069 - val_accuracy: 0.8144 - lr: 0.0010
Epoch 15/50
169/169 [=====] - 27s 154ms/step - loss: 0.4574 - accuracy: 0.8231 - val_loss: 0.6024 - val_accuracy: 0.7944 - lr: 0.0010
Epoch 16/50
169/169 [=====] - 27s 156ms/step - loss: 0.4955 - accuracy: 0.8131 - val_loss: 0.5710 - val_accuracy: 0.8203 - lr: 0.0010
Epoch 17/50
169/169 [=====] - 28s 159ms/step - loss: 0.4170 - accuracy: 0.8392 - val_loss: 0.6197 - val_accuracy: 0.8033 - lr: 0.0010
Epoch 18/50
169/169 [=====] - 27s 154ms/step - loss: 0.4006 - accuracy: 0.8455 - val_loss: 0.6573 - val_accuracy: 0.7981 - lr: 0.0010
Epoch 19/50
168/169 [=====>.] - ETA: 0s - loss: 0.3785 - accuracy: 0.8521
Epoch 19: ReduceLROnPlateau reducing learning rate to 0.0005000000237487257.
169/169 [=====] - 27s 156ms/step - loss: 0.3780 - accuracy: 0.8524 - val_loss: 0.6375 - val_accuracy: 0.8129 - lr: 0.0010

Epoch 20/50

169/169 [=====] - 27s 157ms/step - loss: 0.2914 - accuracy: 0.8872 - val_loss: 0.5299 - val_accuracy: 0.8641 - lr: 5.0000e-04

Epoch 21/50

169/169 [=====] - 27s 157ms/step - loss: 0.2566 - accuracy: 0.9008 - val_loss: 0.5200 - val_accuracy: 0.8634 - lr: 5.0000e-04

Epoch 22/50

169/169 [=====] - 27s 157ms/step - loss: 0.2393 - accuracy: 0.9060 - val_loss: 0.5372 - val_accuracy: 0.8441 - lr: 5.0000e-04

Epoch 23/50

168/169 [=====>.] - ETA: 0s - loss: 0.2371 - accuracy: 0.9040

Epoch 23: ReduceLROnPlateau reducing learning rate to 0.0002500000118743628.

169/169 [=====] - 27s 157ms/step - loss: 0.2370 - accuracy: 0.9041 - val_loss: 0.5810 - val_accuracy: 0.8537 - lr: 5.0000e-04

Epoch 24/50

169/169 [=====] - 27s 157ms/step - loss: 0.2041 - accuracy: 0.9206 - val_loss: 0.5564 - val_accuracy: 0.8693 - lr: 2.5000e-04

Epoch 25/50

169/169 [=====] - 28s 158ms/step - loss: 0.1913 - accuracy: 0.9236 - val_loss: 0.5336 - val_accuracy: 0.8738 - lr: 2.5000e-04

Epoch 26/50

169/169 [=====] - 27s 158ms/step - loss: 0.1998 - accuracy: 0.9217 - val_loss: 0.5487 - val_accuracy: 0.8731 - lr: 2.5000e-04

Epoch 27/50

169/169 [=====] - 27s 157ms/step - loss: 0.1807 - accuracy: 0.9234 - val_loss: 0.5245 - val_accuracy: 0.8745 - lr: 2.5000e-04

Epoch 28/50

169/169 [=====] - 27s 158ms/step - loss: 0.1795 - accuracy: 0.9236 - val_loss: 0.6008 - val_accuracy: 0.8560 - lr: 2.5000e-04

Epoch 29/50

169/169 [=====] - 28s 158ms/step - loss: 0.1890 - accuracy: 0.9199 - val_loss: 0.5689 - val_accuracy: 0.8805 - lr: 2.5000e-04

Epoch 30/50

169/169 [=====] - 27s 157ms/step - loss: 0.1884 - accuracy: 0.9230 - val_loss: 0.5255 - val_accuracy: 0.8768 - lr: 2.5000e-04

Epoch 31/50

169/169 [=====] - 27s 156ms/step - loss: 0.1730 - accuracy: 0.9305 - val_loss: 0.5542 - val_accuracy: 0.8716 - lr: 2.5000e-04

Epoch 32/50

169/169 [=====] - ETA: 0s - loss: 0.1802 - accuracy: 0.9279

Epoch 32: ReduceLROnPlateau reducing learning rate to 0.0001250000059371814.

169/169 [=====] - 27s 157ms/step - loss: 0.1802 - accuracy: 0.9279 - val_loss: 0.5666 - val_accuracy: 0.8701 - lr: 2.5000e-04

Epoch 33/50

```
169/169 [=====] - 27s 158ms/step - loss: 0.1689 - accuracy: 0.9314 - val_loss: 0.5571 - val_accuracy: 0.8708 - lr: 1.2500e-04
Epoch 34/50
169/169 [=====] - 28s 158ms/step - loss: 0.1608 - accuracy: 0.9316 - val_loss: 0.5518 - val_accuracy: 0.8723 - lr: 1.2500e-04
Epoch 35/50
169/169 [=====] - ETA: 0s - loss: 0.1614 - accuracy: 0.9343
Epoch 35: ReduceLROnPlateau reducing learning rate to 6.25000029685907e-05.
169/169 [=====] - 28s 159ms/step - loss: 0.1614 - accuracy: 0.9343 - val_loss: 0.5444 - val_accuracy: 0.8679 - lr: 1.2500e-04
Epoch 36/50
169/169 [=====] - 29s 169ms/step - loss: 0.1497 - accuracy: 0.9397 - val_loss: 0.5582 - val_accuracy: 0.8716 - lr: 6.2500e-05
Epoch 37/50
169/169 [=====] - 27s 157ms/step - loss: 0.1449 - accuracy: 0.9414 - val_loss: 0.5561 - val_accuracy: 0.8731 - lr: 6.2500e-05
Epoch 38/50
169/169 [=====] - ETA: 0s - loss: 0.1425 - accuracy: 0.9410
Epoch 38: ReduceLROnPlateau reducing learning rate to 3.125000148429535e-05.
169/169 [=====] - 27s 157ms/step - loss: 0.1425 - accuracy: 0.9410 - val_loss: 0.5571 - val_accuracy: 0.8745 - lr: 6.2500e-05
Epoch 39/50
169/169 [=====] - 27s 158ms/step - loss: 0.1403 - accuracy: 0.9407 - val_loss: 0.5605 - val_accuracy: 0.8760 - lr: 3.1250e-05
Epoch 40/50
169/169 [=====] - 28s 159ms/step - loss: 0.1412 - accuracy: 0.9418 - val_loss: 0.5605 - val_accuracy: 0.8760 - lr: 3.1250e-05
Epoch 41/50
169/169 [=====] - ETA: 0s - loss: 0.1478 - accuracy: 0.9386
Epoch 41: ReduceLROnPlateau reducing learning rate to 1.5625000742147677e-05.
169/169 [=====] - 28s 158ms/step - loss: 0.1478 - accuracy: 0.9386 - val_loss: 0.5555 - val_accuracy: 0.8760 - lr: 3.1250e-05
Epoch 42/50
169/169 [=====] - 27s 157ms/step - loss: 0.1424 - accuracy: 0.9425 - val_loss: 0.5587 - val_accuracy: 0.8775 - lr: 1.5625e-05
Epoch 43/50
169/169 [=====] - 27s 158ms/step - loss: 0.1396 - accuracy: 0.9401 - val_loss: 0.5567 - val_accuracy: 0.8760 - lr: 1.5625e-05
Epoch 44/50
169/169 [=====] - ETA: 0s - loss: 0.1420 - accuracy: 0.9379
Epoch 44: ReduceLROnPlateau reducing learning rate to 1e-05.
169/169 [=====] - 28s 159ms/step - loss: 0.1420 - accuracy: 0.9379 - val_loss: 0.5555 - val_accuracy: 0.8753 - lr: 1.5625e-05
```


5

Epoch 45/50

169/169 [=====] - 28s 159ms/step - loss: 0.1455 - accuracy: 0.9436 - val_loss: 0.5531 - val_accuracy: 0.8768 - lr: 1.0000e-05

5

Epoch 46/50

169/169 [=====] - 29s 168ms/step - loss: 0.1383 - accuracy: 0.9423 - val_loss: 0.5515 - val_accuracy: 0.8768 - lr: 1.0000e-05

5

Epoch 47/50

169/169 [=====] - 28s 159ms/step - loss: 0.1351 - accuracy: 0.9451 - val_loss: 0.5585 - val_accuracy: 0.8738 - lr: 1.0000e-05

5

Epoch 48/50

169/169 [=====] - 28s 158ms/step - loss: 0.1415 - accuracy: 0.9421 - val_loss: 0.5523 - val_accuracy: 0.8775 - lr: 1.0000e-05

5

Epoch 49/50

169/169 [=====] - 28s 158ms/step - loss: 0.1421 - accuracy: 0.9414 - val_loss: 0.5531 - val_accuracy: 0.8753 - lr: 1.0000e-05

5

Epoch 50/50

169/169 [=====] - 28s 158ms/step - loss: 0.1343 - accuracy: 0.9442 - val_loss: 0.5545 - val_accuracy: 0.8782 - lr: 1.0000e-05

5

Visualize the model results

In [66]:

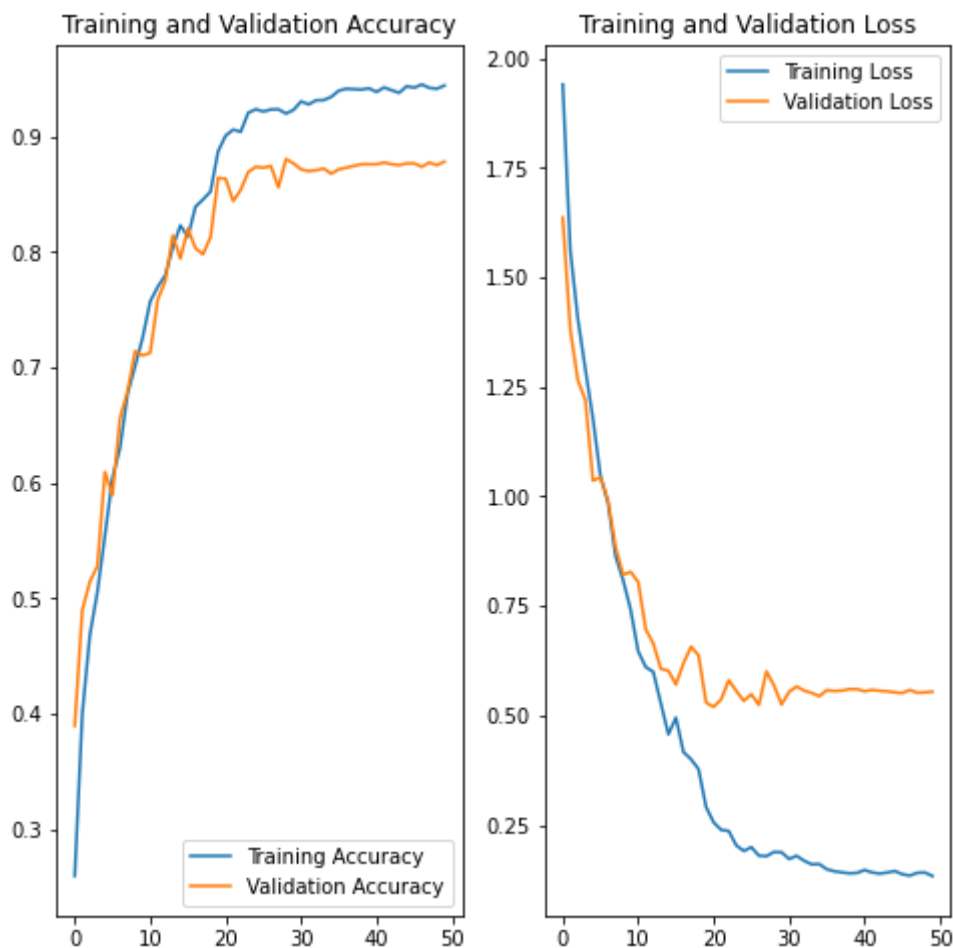
```
acc = history.history['accuracy']
val_acc = history.history['val_accuracy']

loss = history.history['loss']
val_loss = history.history['val_loss']

epochs_range = range(epochs)

plt.figure(figsize=(8, 8))
plt.subplot(1, 2, 1)
plt.plot(epochs_range, acc, label='Training Accuracy')
plt.plot(epochs_range, val_acc, label='Validation Accuracy')
plt.legend(loc='lower right')
plt.title('Training and Validation Accuracy')

plt.subplot(1, 2, 2)
plt.plot(epochs_range, loss, label='Training Loss')
plt.plot(epochs_range, val_loss, label='Validation Loss')
plt.legend(loc='upper right')
plt.title('Training and Validation Loss')
plt.show()
```



Did you get rid of underfitting/overfitting? Did class rebalance help? Answer:

The class rebalance helped in reducing overfitting of the data and thus the loss is being reduced. But it reduced the accuracy very low.

Initially we tried without the ImageDataGenerator which created data to overfit at a high ratio.

Then we introduced dropout and ImageDataGenerator which reduced the overfit.

At last we tried Batch Normalization and Augmentation which really helped in carry forward.

In []: