



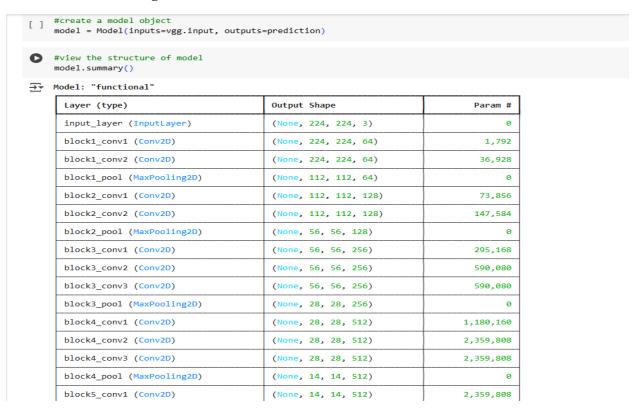
Model Development Phase Template

Date	11-03-2025	
Team ID	740037	
Project Title	Early Stage Disease Diagnosis System Using Human Nail Image Processing Using Deep Learning.	
Maximum Marks	4 Marks	

Initial Model Training Code, Model Validation and Evaluation Report

The initial model training code will be showcased in the future through a screenshot.

Initial Model Training Code:







	block5_conv1 (Conv2D)	(None, 14, 14, 512)	2,359,808
_	block5_conv2 (Conv2D)	(None, 14, 14, 512)	2,359,808
	block5_conv3 (Conv2D)	(None, 14, 14, 512)	2,359,808
	block5_pool (MaxPooling2D)	(None, 7, 7, 512)	0
	flatten (Flatten)	(None, 25088)	0
	dense (Dense)	(None, 4)	100,356

Total params: 14,815,044 (56.51 MB)
Trainable params: 100,356 (392.02 KB)
Non-trainable params: 14,714,688 (56.13 MB)

Compiling the model

```
[ ] #compiling the cnn model
    model.compile(loss='categorical_crossentropy', optimizer='adam', metrics=['acc'])

[ ] # Compile the model with sparse_categorical_crossentropy
    model.compile(
        optimizer='adam',
        loss='sparse_categorical_crossentropy',
        metrics=['accuracy']
    )
```

Fitting the model

```
import sys
# Fit the model
r = model.fit(
    training_set,
    validation_data=test_set,
    epochs=25,
    steps_per_epoch = 979//10,
    validation_steps=171//10
)
```