PROJECT DEVELOPMENT PHASE

MODEL PERFORMANCE TEST

Performance Testing :

```
[20] model.fit_generator(x_train,steps_per_epoch=14,epochs=10,validation_data=x_test,validation_steps=4)

    Epoch 1/10
    14/14 [==============================] - 137s 10s/step - loss: 0.6627 - accuracy: 0.6461 - val_loss: 0.6750 - val_accuracy: 0.5950
    Epoch 2/10
    14/14 [==============================] - 26s 2s/step - loss: 0.6506 - accuracy: 0.6461 - val_loss: 0.6767 - val_accuracy: 0.5950
    Epoch 3/10
    14/14 [==============================] - 26s 2s/step - loss: 0.6289 - accuracy: 0.6461 - val_loss: 0.6829 - val_accuracy: 0.5950
    Epoch 4/10
    14/14 [==============================] - 26s 2s/step - loss: 0.6725 - accuracy: 0.6461 - val_loss: 0.6787 - val_accuracy: 0.5950
    Epoch 5/10
    14/14 [==============================] - 26s 2s/step - loss: 0.6641 - accuracy: 0.6461 - val_loss: 0.6758 - val_accuracy: 0.5950
    Epoch 6/10
    14/14 [==============================] - 26s 2s/step - loss: 0.6575 - accuracy: 0.6461 - val_loss: 0.6750 - val_accuracy: 0.5950
    Epoch 7/10
    14/14 [==============================] - 26s 2s/step - loss: 0.6537 - accuracy: 0.6461 - val_loss: 0.6755 - val_accuracy: 0.5950
    Epoch 8/10
    14/14 [==============================] - 26s 2s/step - loss: 0.6514 - accuracy: 0.6461 - val_loss: 0.6765 - val_accuracy: 0.5950
    Epoch 9/10
    14/14 [==============================] - 26s 2s/step - loss: 0.6509 - accuracy: 0.6461 - val_loss: 0.6781 - val_accuracy: 0.5950
    Epoch 10/10
    14/14 [==============================] - 28s 2s/step - loss: 0.6501 - accuracy: 0.6461 - val_loss: 0.6788 - val_accuracy: 0.5950
    <keras.callbacks.History at 0x7f9c671a1ed0>
```

Values :

Loss	Accuracy	Val_Loss	Val_Accuracy
0.6501	0.6461	0.6788	0.5950

Screenshot :

```python
import matplotlib.pyplot as plt
plt.plot(r.history['loss'], label='loss')
plt.plot(r.history['val_loss'], label='val_loss')
plt.plot(r.history['accuracy'], label='accuracy')
plt.legend()
```

<matplotlib.legend.Legend at 0x7feed03c6e50>