

### **Project Development Phase**

### **Model Performance Test**

Date	18 November 2022	
Team ID	PNT2022TMID45873	
Project Name	e Smart Lender-Applicant Creditbility Prediction for loan approv	
Maximum Marks	10 Marks	

# **Model Performance Testing:**

The below table consists of information in model performance by the project team,

S.no	Parameter	Values
1.	Model Summary	Total amount of Test data imported – 2250 images in
		9 classes.
		Total amount of Training data – 15750 images in 9
		classes.
		Length of the Training set – 18
		Length of the Test set – 3
2.	Accuracy	Model Accuracy - <b>0.7874015748031497</b>
		Training Accuracy – <b>0.9991</b>
		Validation Accuracy – <b>0.9760</b>

## **Screenshots:**

The Screenshots below are for the Model Performance Testing table,

#### **Model Screenshot:**



#### **Accuracy Screenshot:**

```
In [40]:
     \verb|model.fit||_{\texttt{generator}(x\_train,\texttt{steps\_per\_epoch=len}(x\_train),\texttt{epochs=10},\texttt{validation\_data=x\_test},\texttt{validation\_steps=len}(x\_test))|
    C:\Users\vasanth\AppData\Local\Temp\ipykernel_12712\1042518445.py:2: UserWarning: `Model.fit_generator` is deprecated and will be removed in a future v ersion. Please use `Model.fit', which supports generators.

model.fit_generator(x_train,steps_per_epoch=len(x_train),epochs=10,validation_data=x_test,validation_steps=len(x_test))
    18/18 [====
Epoch 4/10
18/18 [====
Epoch 5/10
           18/18 [====
Epoch 6/10
               18/18 [====
Epoch 7/10
18/18 [====
              Epoch 8/10
18/18 [=====
Epoch 9/10
18/18 [=====
Epoch 10/10
           18/18 [===
Out[40]:
     model.save('asl_model_84_54.h5')
```

