## Project Development Phase Model Performance Test

Date	12 November 2022
Team ID	PNT2022TMID01529
Project Name	A GESTURE BASED TOOL FOR STERILE BROWSING OF RADIOLOGY IMAGES
Maximum Marks	10 Marks

## **Model Performance Testing:**

S.No.	Model Summary	Values -	Screenshot  Model: "sequential"		
1.					
			Layer (type)	Output Shape	Param #
			batch_normalization (BatchN ormalization)		
			conv2d (Conv2D)	(None, 126, 126, 32)	320
			<pre>max_pooling2d (MaxPooling2D )</pre>	(None, 63, 63, 32)	0
			conv2d_1 (Conv2D)	(None, 63, 63, 6)	3078
			max_pooling2d_1 (MaxPooling 2D)	(None, 31, 31, 6)	0
			conv2d_2 (Conv2D)	(None, 31, 31, 128)	7040
			max_pooling2d_2 (MaxPooling 2D)	(None, 15, 15, 128)	0
			conv2d_3 (Conv2D)	(None, 15, 15, 128)	65664
			max_pooling2d_3 (MaxPooling 2D)	(None, 7, 7, 128)	0
			flatten (Flatten)	(None, 6272)	0
			dense (Dense)	(None, 128)	802944
			dense_1 (Dense)	(None, 64)	8256
			dense_2 (Dense)	(None, 32)	2080
			dense_3 (Dense)	(None, 6)	198
			Total params: 889,584 Trainable params: 889,582 Non-trainable params: 2		

2.	Accuracy	Training	Epoch 1/20
۷.	Accuracy	_	562/562 [=======] - 308s 546ms/step - loss: 0.2178 - accuracy: 0.9182 - val_loss: 0.0014 - val_accuracy:
		Accuracy –	1.0000 Epoch 2/20
		99.92%	562/562 [=======] - 306s 545ms/step - loss: 0.0386 - accuracy: 0.9880 - val_loss: 0.0068 - val_accuracy:
			0.9978
		Validation	Epoch 3/20
		Accuracy –	562/562 [=======] - 299s 532ms/step - loss: 0.0192 - accuracy: 0.9948 - val_loss: 7.7184e-04 - val_accur acv: 1.0000
		99.86%	Epoch 4/20
		33.0076	562/562 [=======] - 306s 545ms/step - loss: 0.0137 - accuracy: 0.9960 - val_loss: 0.0032 - val_accuracy:
			0.9983
			Epoch 5/20 562/562 [====================================
			502/302 [] - 3105 352m3/step - 1055, 0.0104 - accuracy, 0.5540 - vol_1055, 5.2540e-04 - vol_accuracy
			562/562 [======] - 312s 556ms/step - loss: 0.0150 - accuracy: 0.9949 - val_loss: 1.4421e-05 - val_accur
			acy: 1.0000 Epoch 7/20
			562/562 [=======] - 304s 541ms/step - loss: 0.0073 - accuracy: 0.9978 - val_loss: 0.0120 - val_accuracy:
			0.9967
			Epoch 8/20 562/562 [====================================
			0.9994
			Epoch 9/20 562/562 [====================================
			acy: 1.0000
			Epoch 10/20 562/562 [====================================
			acy: 1.0000
			Epoch 11/20 562/562 [====================================
			acy: 1.0000
			Epoch 12/20 562/562 [========] - 310s 552ms/step - loss: 0.0035 - accuracy: 0.9992 - val_loss: 0.0021 - val_accuracy:
			0.9989
			Epoch 13/20
			562/562 [========] - 303s 539ms/step - loss: 0.0090 - accuracy: 0.9975 - val_loss: 0.0017 - val_accuracy: 1.0000
			Epoch 14/20
			562/562 [=======] - 299s 533ms/step - loss: 0.0082 - accuracy: 0.9976 - val_loss: 1.9254e-05 - val_accuracy: 1.0000
			Epoch 15/20 562/562 [====================================
			302/302 [====================================
			Epoch 16/20 562/562 [====================================
			302/302 [====================================
			Epoch 17/20
			562/562 [========] - 306s 545ms/step - loss: 0.0020 - accuracy: 0.9996 - val_loss: 1.1681e-05 - val_accuracy: 1.0000
			Epoch 18/20  563/563 [
			562/562 [=========] - 307s 546ms/step - loss: 0.0074 - accuracy: 0.9981 - val_loss: 1.8610e-04 - val_accuracy: 1.0000
			Epoch 19/20  562/563 [
			562/562 [=======] - 300s 534ms/step - loss: 0.0051 - accuracy: 0.9906 - val_loss: 1.1064e-04 - val_accuracy: 1.0000
			Epoch 20/20  E52/E52 [
			562/562 [========] - 304s 540ms/step - loss: 0.0026 - accuracy: 0.9992 - val_loss: 0.0037 - val_accuracy: 0.9986
			N600000