## Project Development Phase Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID13305
Project Name	Project - Real-Time Communication System
	Powered By AI For Specially Abled
Maximum Marks	10 Marks

## **Model Performance Testing:**

Project team shall fill the following information in model performance testing template.

S.No.	Parameter	Values	Screenshot
1.	Model Summary -	-	from keras.models import Sequential from keras.layers import Dense from keras.layers import Convolution2D #from tensorflow.keras.layers import Conv2D, MaxPooling2D from keras.layers import Dropout from keras.layers import MaxPooling2D from keras.layers import Flatten
			model=Sequential()
			<pre>model.add(Convolution2D(32,(3,3), input_shape=(64,64,1), activation = 'relu'))</pre>
			model.add(MaxPooling2D(pool_size=(2,2)))
			<pre>model.add(Flatten())</pre>
			<pre>model.add(Dense( units=512, activation='relu'))</pre>
			<pre>model.add(Dense(units=9, activation='softmax'))</pre>
2.	Accuracy	Training Accuracy	model.add(Dense(units=9, activation='softmax'))
	,	- 99.6%	<pre>model.compile(loss='categorical_crossentropy', optimizer='adam', metrics=['accuracy'])</pre>
		- 99.0%	model.fit(x_train, steps_per_epoch=30, epochs=10, validation_data=x_test,validation_steps=50)
			Epoch 1/10 30/30 [
			7 Epoch 2/10
		Validation	30/30 [
		Accuracy -98.3%	Epoch 4/10 30/30 [] - 22s 729ms/step - loss: 0.0793 - accuracy: 0.9800
			Epoch 5/10 30/30 [
			spoch 7/10 30/30 [====================================
			30/30 [==========] - 15s 488ms/step - loss: 0.0280 - accuracy: 0.9939 Epoch 8/10
			30/30 [] - 145 477ms/step - loss: 0.0204 - accuracy: 0.9959 Epoch 9/10 30/30 [] - 155 480ms/step - loss: 0.0184 - accuracy: 0.9966
			Epoch 10/10 30/30 [====================================
			<pre><keras.callbacks.history 0x156cb9c9040="" at=""></keras.callbacks.history></pre>
			model.save('aslpng')