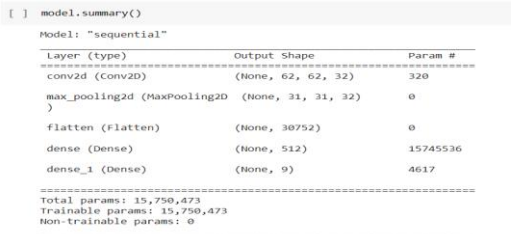
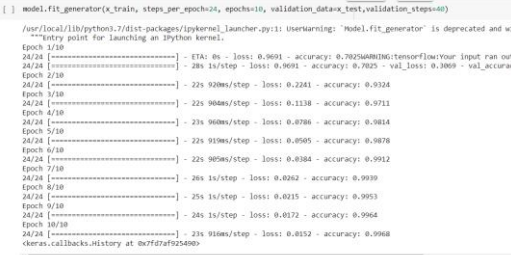


## Project Development Phase Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID24263
Project Name	Real-Time Communication System Powered by AI for Specially Abled
Maximum Marks	10 Marks

### Model Performance Testing:

S.No.	Parameter	Values	Screenshot
1.	Model Summary	<b>Model : Sequential</b> <b>Convolution2D: ( None , 62,62, 32)</b> <b>Maxpooling 2D: ( None , 31,31, 32)</b>  <b>Trainable Parameter : 15750473</b> <b>Non Trainable Parameter: 0</b>	 <pre>[ ] model.summary()  Model: "sequential" Layer (type)                Output Shape              Param # ----- conv2d (Conv2D)              (None, 62, 62, 32)       320 max_pooling2d (MaxPooling2D) (None, 31, 31, 32)       0 flatten (Flatten)            (None, 30752)             0 dense (Dense)                (None, 512)               15745536 dense_1 (Dense)              (None, 9)                 4617 ----- Total params: 15,750,473 Trainable params: 15,750,473 Non-trainable params: 0</pre>
2.	Accuracy	<b>Training Accuracy - 0.9968</b>  <b>Loss : 0.0152</b>	 <pre>[ ] model.fit_generator(x_train, steps_per_epoch=24, epochs=10, validation_data=x_test, validation_steps=40)  /usr/local/lib/python3.7/dist-packages/ipykernel_launcher.py:1: UserWarning: "model.fit_generator" is deprecated and will be removed in a future version. Please use "model.fit" instead.   """Entry point for launching an IPython kernel. Epoch 1/10 24/24 [=====] - ETA: 4s - loss: 0.9691 - accuracy: 0.70250000000000004 24/24 [=====] - 20s 1s/step - loss: 0.9091 - accuracy: 0.7025 - val_loss: 0.3860 - val_accuracy: 0.9968 Epoch 2/10 24/24 [=====] - 22s 920ms/step - loss: 0.2241 - accuracy: 0.9324 Epoch 3/10 24/24 [=====] - 22s 904ms/step - loss: 0.1138 - accuracy: 0.9711 Epoch 4/10 24/24 [=====] - 23s 908ms/step - loss: 0.0786 - accuracy: 0.9814 Epoch 5/10 24/24 [=====] - 22s 919ms/step - loss: 0.0505 - accuracy: 0.9878 Epoch 6/10 24/24 [=====] - 22s 905ms/step - loss: 0.0384 - accuracy: 0.9912 Epoch 7/10 24/24 [=====] - 20s 1s/step - loss: 0.0262 - accuracy: 0.9939 Epoch 8/10 24/24 [=====] - 25s 1s/step - loss: 0.0215 - accuracy: 0.9953 Epoch 9/10 24/24 [=====] - 24s 1s/step - loss: 0.0172 - accuracy: 0.9964 Epoch 10/10 24/24 [=====] - 23s 916ms/step - loss: 0.0152 - accuracy: 0.9968 keras.callbacks.History at 0x7f9f9254080 &gt;</pre>