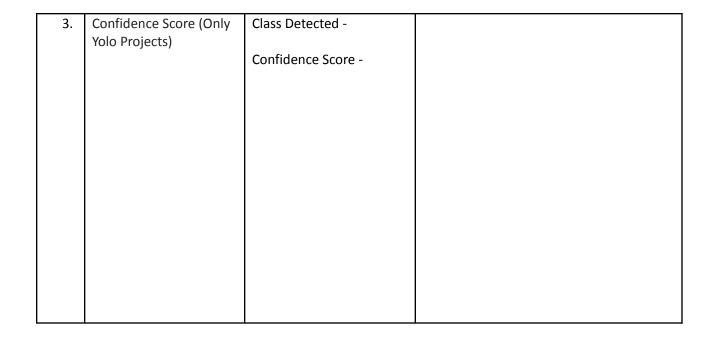
Project Development Phase Model Performance Test

Date	18 November 2023	
Team ID	Team-592942	
Project Name	Detecting COVID-19 From Chest X-Rays Using Deep Learning Techniques	
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	-	1 mile - Separtial() 1 mile all referenciation() 1 mile all
2.	Accuracy	Training Accuracy - 93% Validation Accuracy - 92%	



SCREEN SHOTS-

```
model = Sequential()
model.add(ResNet50(include_top=False, pooling='avg', weights='imagenet'))
model.add(Flatten())
model.add(BatchNormalization())
model.add(BatchNormalization())
model.add(BatchNormalization())
model.add(BatchNormalization())
model.add(BatchNormalization())
model.add(BatchNormalization())
model.add(Dense(1024, activation='relu'))
model.add(BatchNormalization())
model.add(Dense(no_of_classes, activation='softmax'))

model.add(Dense(no_of_classes, activation='softmax'))

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model.add(Dense(no_of_classes, activation='softmax'))

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```

```
cepochs = 100

train_datagen = ImageDataGenerator(
    rotation_range=15,
    fill_mode ="nearest")

checkpointer = ModelCheckpoint(filepath = "D:\project covid\CDX_Best_RestNet50.h5", save_best_only = True, verbose=1)
start = time.time()

history=model.fit_generator(train_datagen.flow(X_train, y_train, batch_size = bs),

steps_per_epoch = len(X_train)//bs,
    validation_data = (X_valid),
    validation_steps = len(X_valid),
    validation_steps = len(X_valid)//bs,
    epochs =epochs,
    callbacks= [checkpointer])

end = time.time()
duration = end - start
print ('\n This Model took %0.2f seconds (%0.1f minutes) to train for %d epochs %(duration, duration/60, epochs))

v 1306m 24.1s
```

