Project Development Phase Model Performance Test

| Date | 10 November 2023 | |
|---------------|--|--|
| Team ID | team-592909 | |
| Project Name | Project - Potato disease classifications | |
| Maximum Marks | 10 Marks | |

Model Performance Testing:

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

| S.No. | Parameter | Values | Screenshot |
|-------|---------------------------------------|---|---------------------------------------|
| 1. | Model Summary | Total params: 183,747 Trainable params: 183,747 Non-trainable params: 0 | |
| 2. | Accuracy | Training Accuracy - 99.65 | 10 10 10 10 10 10 10 10 |
| | | Validation Accuracy - 98.44 | |
| 3. | Confidence Score (Only Yolo Projects) | Class Detected - NA | |
| | | Confidence Score - NA | |



```
history = model.fit(
        train_ds,
        batch_size=BATCH_SIZE, validation_data=val_ds,
        verbose=1,
        epochs=50,
Poch 1/50 54/54 [====
                               =======] - 20s 255ms/step - loss: 0.8802 - accuracy: 0.5341 - val_loss: 0.8462 - val_accuracy: 0.5938
    Epoch 2/50
54/54 [====
                                          - 11s 196ms/step - loss: 0.6033 - accuracy: 0.7396 - val loss: 0.6225 - val accuracy: 0.6979
    Epoch 3/50
                                           9s 172ms/step - loss: 0.3647 - accuracy: 0.8403 - val loss: 0.3065 - val accuracy: 0.8802
    54/54 [===
    Epoch 4/50
                                          - 10s 176ms/step - loss: 0.2776 - accuracy: 0.8999 - val_loss: 0.2702 - val_accuracy: 0.8750
    54/54 [======
    Epoch 5/50
                                           10s 179ms/step - loss: 0.2448 - accuracy: 0.8953 - val loss: 0.1857 - val accuracy: 0.9062
    54/54 [====
    Epoch 6/50
                                           9s 174ms/step - loss: 0.2020 - accuracy: 0.9144 - val_loss: 0.2987 - val_accuracy: 0.9115
    54/54 [====
                                          - 10s 185ms/step - loss: 0.1751 - accuracy: 0.9288 - val_loss: 0.1854 - val_accuracy: 0.9375
    54/54 [====:
                                          - 10s 180ms/step - loss: 0.1436 - accuracy: 0.9444 - val loss: 0.2273 - val accuracy: 0.9167
    54/54 [====
    Epoch 9/50
    54/54 [====
                                           10s 175ms/step - loss: 0.1128 - accuracy: 0.9583 - val loss: 0.1425 - val accuracy: 0.9479
    Epoch 10/50
                                          - 10s 179ms/step - loss: 0.1218 - accuracy: 0.9549 - val_loss: 0.2310 - val_accuracy: 0.9115
    54/54 [=====
    Epoch 11/50
    54/54 [====
                                          - 10s 179ms/step - loss: 0.1524 - accuracy: 0.9398 - val_loss: 0.0774 - val_accuracy: 0.9688
    Epoch 12/50
    54/54 [=====
                                          - 10s 186ms/step - loss: 0.1062 - accuracy: 0.9578 - val loss: 0.1787 - val accuracy: 0.9427
    Epoch 13/50
    54/54 [====
                                          - 9s 172ms/step - loss: 0.1299 - accuracy: 0.9549 - val_loss: 0.0929 - val_accuracy: 0.9531
    Epoch 14/50
                            54/54 [====
    54/54 [=====
                              =======] - 9s 171ms/step - loss: 0.0967 - accuracy: 0.9659 - val_loss: 0.0804 - val_accuracy: 0.9635
```