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LAMPIRAN

Lampiran 1 Contoh Dataset

- Class Segar



- Class Baik



- Class Tidak Layak



Lampiran 2 Proses Training Model

- Training data train dan val

```
Epoch 1/20
11/11 [=====] - 47s 3s/step - loss:
1.2262 - accuracy: 0.3210 - val_loss: 1.0847 - val_accuracy:
0.3646
Epoch 2/20
11/11 [=====] - 18s 1s/step - loss:
1.0676 - accuracy: 0.5000 - val_loss: 1.0152 - val_accuracy:
0.6979
Epoch 3/20
11/11 [=====] - 18s 1s/step - loss:
0.9489 - accuracy: 0.5966 - val_loss: 0.8416 - val_accuracy:
0.5417
Epoch 4/20
11/11 [=====] - 18s 1s/step - loss:
0.8073 - accuracy: 0.6136 - val_loss: 0.6577 - val_accuracy:
0.6771
Epoch 5/20
11/11 [=====] - 18s 1s/step - loss:
0.5696 - accuracy: 0.7443 - val_loss: 0.4284 - val_accuracy:
0.8125
Epoch 6/20
11/11 [=====] - 18s 1s/step - loss:
0.4701 - accuracy: 0.7898 - val_loss: 0.5289 - val_accuracy:
0.7500
Epoch 7/20
11/11 [=====] - 15s 1s/step - loss:
0.3384 - accuracy: 0.8523 - val_loss: 0.2661 - val_accuracy:
0.9062
Epoch 8/20
11/11 [=====] - 15s 1s/step - loss:
0.2850 - accuracy: 0.8835 - val_loss: 0.2624 - val_accuracy:
0.8438
```

```

Epoch 9/20
11/11 [=====] - 18s 1s/step - loss:
0.2458 - accuracy: 0.8920 - val_loss: 0.2166 - val_accuracy:
0.9271
Epoch 10/20
11/11 [=====] - 17s 1s/step - loss:
0.2092 - accuracy: 0.9091 - val_loss: 0.2573 - val_accuracy:
0.9167
Epoch 11/20
11/11 [=====] - 18s 1s/step - loss:
0.1929 - accuracy: 0.9261 - val_loss: 0.1475 - val_accuracy:
0.9583
Epoch 12/20
11/11 [=====] - 18s 1s/step - loss:
0.1391 - accuracy: 0.9517 - val_loss: 0.1165 - val_accuracy:
0.9583
Epoch 13/20
11/11 [=====] - 15s 1s/step - loss:
0.1111 - accuracy: 0.9631 - val_loss: 0.1089 - val_accuracy:
0.9688
Epoch 14/20
11/11 [=====] - 18s 1s/step - loss:
0.1172 - accuracy: 0.9460 - val_loss: 0.1510 - val_accuracy:
0.9479
Epoch 15/20
11/11 [=====] - 18s 1s/step - loss:
0.0706 - accuracy: 0.9801 - val_loss: 0.0542 - val_accuracy:
0.9792
Epoch 16/20
11/11 [=====] - 18s 1s/step - loss:
0.1819 - accuracy: 0.9176 - val_loss: 0.1971 - val_accuracy:
0.9271
Epoch 17/20
11/11 [=====] - 18s 1s/step - loss:
0.0910 - accuracy: 0.9716 - val_loss: 0.0774 - val_accuracy:
0.9583
Epoch 18/20
11/11 [=====] - 18s 1s/step - loss:
0.0481 - accuracy: 0.9943 - val_loss: 0.0516 - val_accuracy:
0.9896
Epoch 19/20
11/11 [=====] - 18s 1s/step - loss:
0.0326 - accuracy: 1.0000 - val_loss: 0.0414 - val_accuracy:
0.9896
Epoch 20/20
11/11 [=====] - 15s 1s/step - loss:
0.0303 - accuracy: 0.9943 - val_loss: 0.0281 - val_accuracy:
1.0000

```

- **Evaluasi data test**

```

3/3 [=====] - 7s 117ms/step - loss:
0.0403 - accuracy: 0.9891
[0.040287088602781296, 0.989130437374115]

```


Lampiran 3 Source Code

- Pembuatan Model

```
import tensorflow as tf
from tensorflow import keras
from tensorflow.keras.models import Sequential
from tensorflow.keras.layers import Conv2D, MaxPooling2D
from tensorflow.keras.layers import Activation, Dense, Flatten
import sklearn.metrics
import matplotlib.pyplot as plt
import numpy as np
import os
import cv2

from google.colab import drive
drive.mount('/content/drive')

data_dir = '/content/drive/MyDrive/Colab Notebooks/TugasAkhir/dataset2'
os.listdir(data_dir)

data = tf.keras.utils.image_dataset_from_directory('/content/drive/MyDrive/Colab Notebooks/TugasAkhir/dataset2')
data_iterator = data.as_numpy_iterator()
batch = data_iterator.next()
batch[0].shape

fig, ax = plt.subplots(ncols=5, figsize=(20,20))
for idx, img in enumerate(batch[0][:5]):
    ax[idx].imshow(img.astype(int))
    ax[idx].title.set_text(batch[1][idx])

data = data.map(lambda x, y: (x/255, y))
len(data)
train_size = int(len(data)*.6)+1
val_size = int(len(data)*.2)
test_size = int(len(data)*.2)
train_size+val_size+test_size

train = data.take(train_size)
val = data.skip(train_size).take(val_size)
test = data.skip(train_size+val_size).take(test_size)

model = Sequential()
model.add(MaxPooling2D())

model.add(Flatten())

model.add(Dense(256, activation='relu'))
model.add(Dense(3, activation='softmax'))
```

```

model.compile(optimizer='adam', loss='sparse_categorical_crossentropy', metrics=['accuracy'])
model.summary()

logdir='logs'
tensorboard_callback = tf.keras.callbacks.TensorBoard(log_dir=logdir)
hist = model.fit(train, validation_data=val, epochs=20, callbacks=[tensorboard_callback])

fig = plt.figure()
plt.plot(hist.history['accuracy'], color='teal', label='accuracy')
plt.plot(hist.history['val_accuracy'], color='orange', label='val_accuracy')
fig.suptitle('Accuracy', fontsize=20)
plt.legend(loc="upper left")
plt.show()

fig = plt.figure()
plt.plot(hist.history['loss'], color='teal', label='loss')
plt.plot(hist.history['val_loss'], color='orange', label='val_loss')
fig.suptitle('Loss', fontsize=20)
plt.legend(loc="upper left")
plt.show()

model.evaluate(test)

```

- Pembuatan Aplikasi Android

#SplashScreen

```

package unhas.mardiani.percobaan5;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.os.Handler;
import android.view.Window;

public class SplashScreen extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);

        //menghilangkan ActionBar
        this.requestWindowFeature(Window.FEATURE_NO_TITLE);
        setContentView(R.layout.activity_splash_screen);
        final Handler handler = new Handler();
        handler.postDelayed(new Runnable() {

            @Override

```

```

        public void run() {
            startActivity(new
Intent(getApplicationContext(), MainActivity.class));
            finish();
        }
    }, 3000L); //3000 L = 3 detik
}
}

```

#MainActivity

```

package unhas.mardiani.percobaan5;

import androidx.annotation.Nullable;
import androidx.annotation.RequiresApi;
import androidx.appcompat.app.AppCompatActivity;
import android.Manifest;
import android.content.Intent;
import android.content.pm.PackageManager;
import android.graphics.Bitmap;
import android.media.ThumbnailUtils;
import android.net.Uri;
import android.os.Build;
import android.os.Bundle;
import android.provider.MediaStore;
import android.view.View;
import android.widget.Button;
import android.widget.ImageView;
import android.widget.TextView;
import android.widget.Toolbar;

import org.tensorflow.lite.DataType;
import org.tensorflow.lite.support.tensorbuffer.TensorBuffer;

import java.io.IOException;
import java.nio.ByteBuffer;
import java.nio.ByteOrder;

import unhas.mardiani.percobaan5.ml.Model6;

public class MainActivity extends AppCompatActivity {

```

```

TextView result, confidence;
    ImageView imageView;
    Button picture, gallery;
    int imageSize = 256;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        result = findViewById(R.id.result);
        confidence = findViewById(R.id.confidence);
        imageView = findViewById(R.id.imageView);

picture = findViewById(R.id.button);
        gallery = findViewById(R.id.button2);

        picture.setOnClickListener(new View.OnClickListener() {
            @RequiresApi(api = Build.VERSION_CODES.M)
            @Override
            public void onClick(View view) {
                // Launch camera if we have permission
                if
                (checkSelfPermission(Manifest.permission.CAMERA) ==
                PackageManager.PERMISSION_GRANTED) {
                    Intent cameraIntent = new
                    Intent(MediaStore.ACTION_IMAGE_CAPTURE);
                    startActivityForResult(cameraIntent, 1);
                } else {
                    // Request camera permission if we don't
                    have it
                    requestPermissions(new
                    String[]{Manifest.permission.CAMERA}, 100);
                }
            }
        });

        gallery.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                // Buka Galeri
                Intent intent = new Intent(Intent.ACTION_PICK,
                MediaStore.Images.Media.EXTERNAL_CONTENT_URI);
                startActivityForResult(intent, 3);
            }
        });
    }

```

```

public void classifyImage(Bitmap image) {
    try {
        Model6 model =
Model6.newInstance(getApplicationContext());
public void classifyImage(Bitmap image) {
    try {
        Model6 model =
Model6.newInstance(getApplicationContext());

        // Creates inputs for reference.
        TensorBuffer inputFeature0 =
TensorBuffer.createFixedSize(new int[]{1, 256, 256, 3},
DataType.FLOAT32);
        ByteBuffer byteBuffer = ByteBuffer.allocateDirect(4
* imageSize * imageSize * 3);
        byteBuffer.order(ByteOrder.nativeOrder());

        int [] intValues = new int[imageSize * imageSize];
        image.getPixels(intValues, 0, image.getWidth(), 0,
0, image.getWidth(), image.getHeight());
        int pixel = 0;
        for(int i = 0; i < imageSize; i++){
            for (int j = 0; j < imageSize; j++) {
                int val = intValues[pixel++]; // RGB
                byteBuffer.putFloat(((val >> 16) & 0xFF) *
(1.f / 255.f));
                byteBuffer.putFloat(((val >> 8) & 0xFF) *
(1.f / 255.f));
                byteBuffer.putFloat((val & 0xFF) * (1.f /
255.f));
            }
        }

        inputFeature0.loadBuffer(byteBuffer);

        // Runs model inference and gets result.

```

```

Model6.Outputs outputs = model.process(inputFeature0);
    TensorBuffer outputFeature0 =
outputs.getOutputFeature0AsTensorBuffer();

        float[] confidences =
outputFeature0.getFloatArray();
int maxPos = 0;
        float maxConfidence = 0;
        for (int i = 0; i < confidences.length; i++) {
            if (confidences[i] > maxConfidence) {
                maxConfidence = confidences[i];
                maxPos = i;
            }
        }

        String[] classes = {"Fresh", "Good", "Bad"};

        result.setText(classes[maxPos]);

        String s = "";
        for (int i = 0; i < classes.length; i++){
            s += String.format("%s: %.1f%\n", classes[i],
confidences[i] * 100);
        }
        confidence.setText(s);

        // Releases model resources if no longer used.
        model.close();
    } catch (IOException e) {
        // TODO Handle the exception
    }

}

@Override
public void onActivityResult(int requestCode, int
resultCode, @Nullable Intent data) {
    if (requestCode == 1 && resultCode == RESULT_OK) {
        Bitmap image = (Bitmap)
data.getExtras().get("data");
        int dimension = Math.min(image.getWidth(),
image.getHeight());
        image = ThumbnailUtils.extractThumbnail(image,
dimension, dimension);
        imageView.setImageBitmap(image);

        image = Bitmap.createScaledBitmap(image, imageSize,
imageSize, false);
        classifyImage(image);

    }

    else if (requestCode == 3 && resultCode == RESULT_OK &&
data != null) {
        Uri selectedImage = data.getData();
        Bitmap image = null;
    }
}

```

```

try {
    image =
MediaStore.Images.Media.getBitmap(this.getContentResolver(),
selectedImage);
    } catch (IOException e) {
        e.printStackTrace();
    }
    int dimension = Math.min(image.getWidth(),
image.getHeight());
    image = ThumbnailUtils.extractThumbnail(image,
dimension, dimension);
    imageView.setImageBitmap(image);

    image = Bitmap.createScaledBitmap(image, imageSize,
imageSize, false);
    classifyImage(image);

}

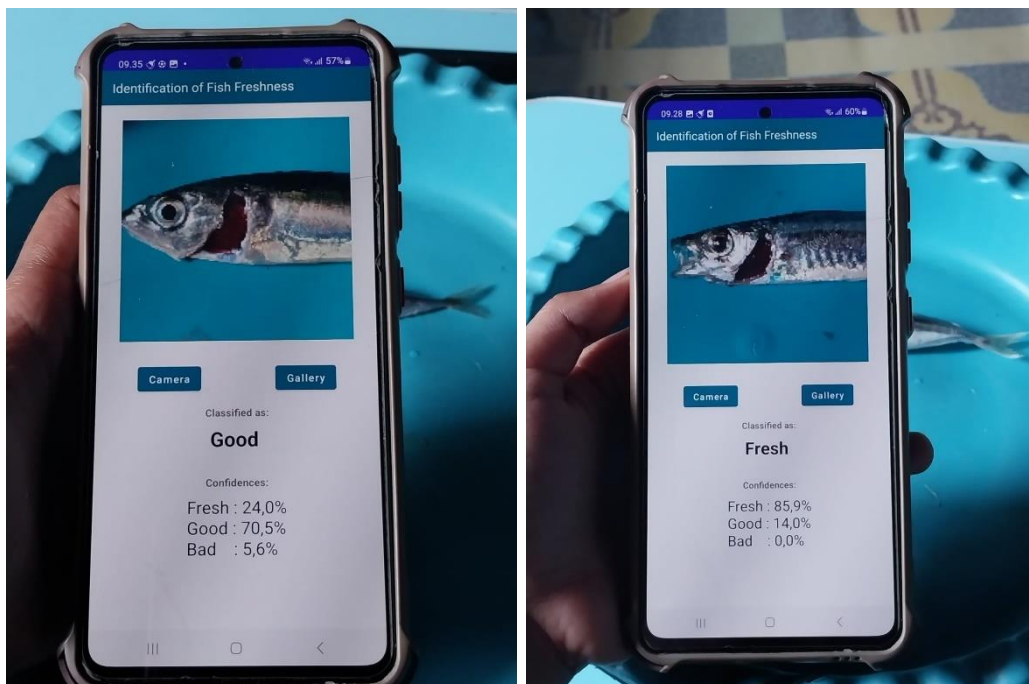
super.onActivityResult(requestCode, resultCode, data);
}
}

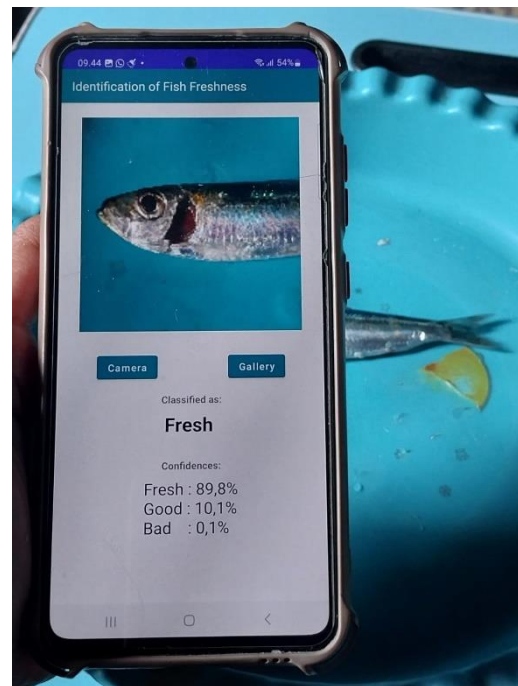
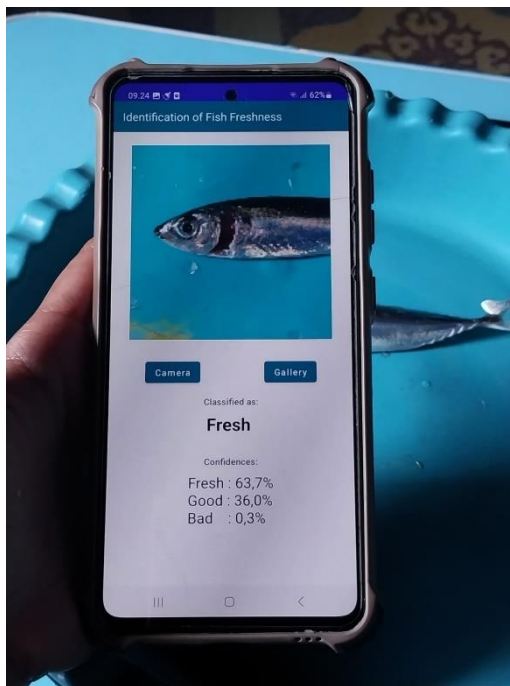
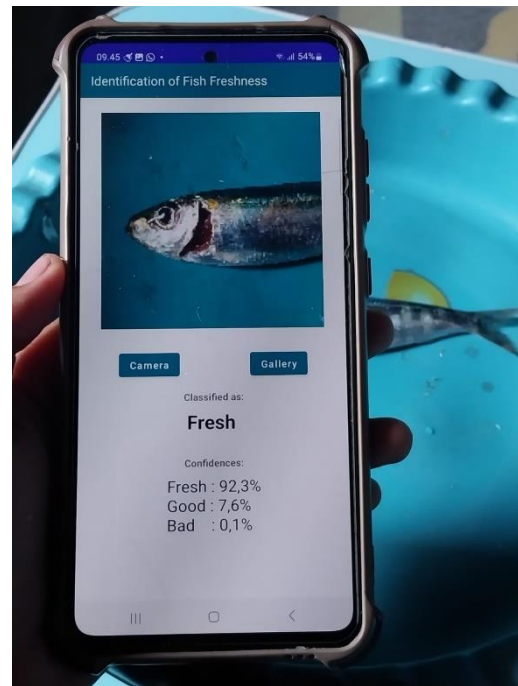
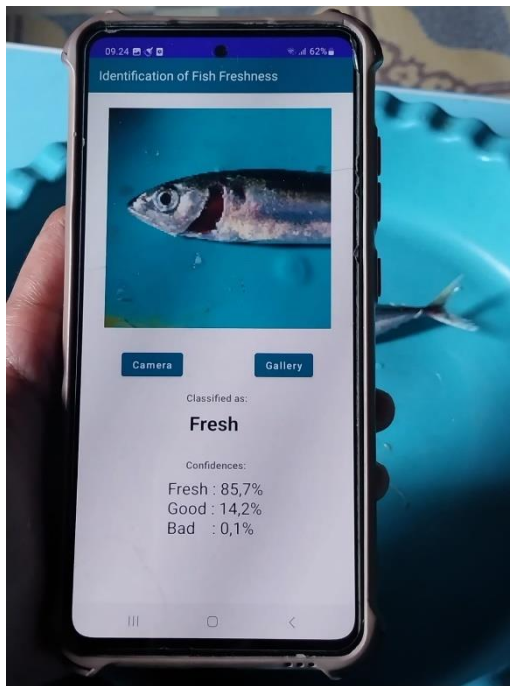
```

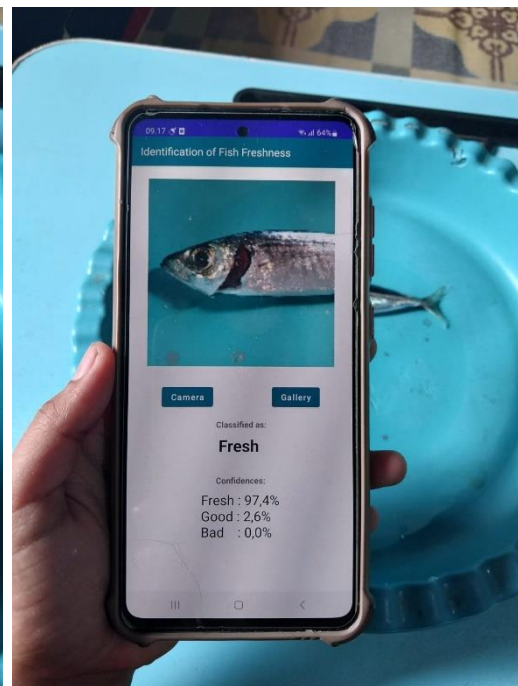
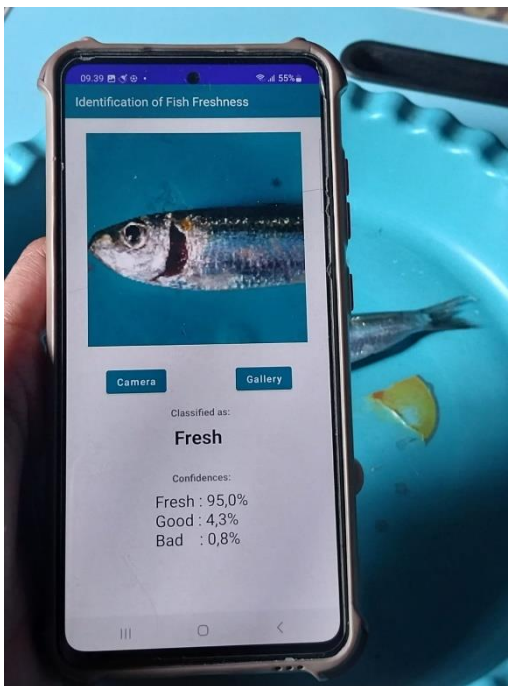
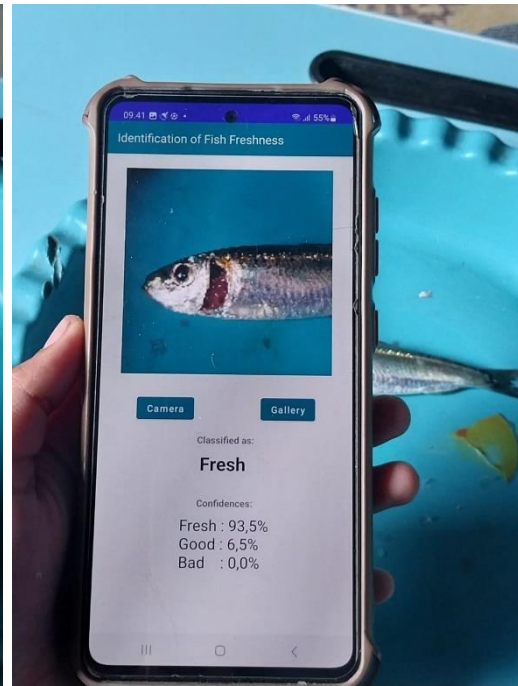
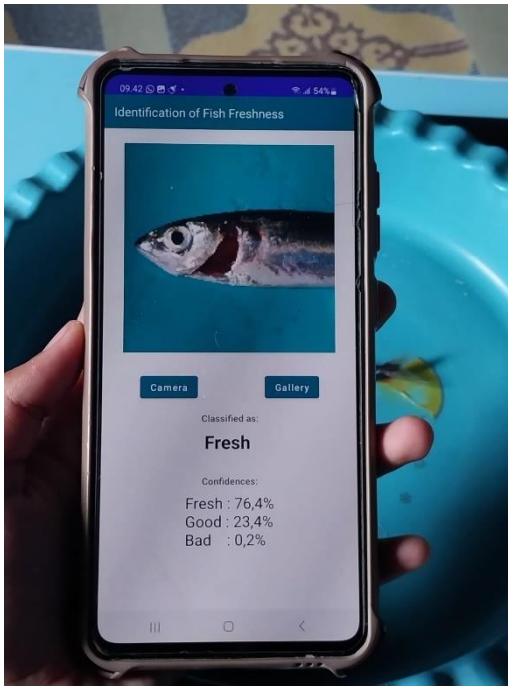
Lampiran 4 Testing Aplikasi Android

- Menggunakan Fitur Kamera

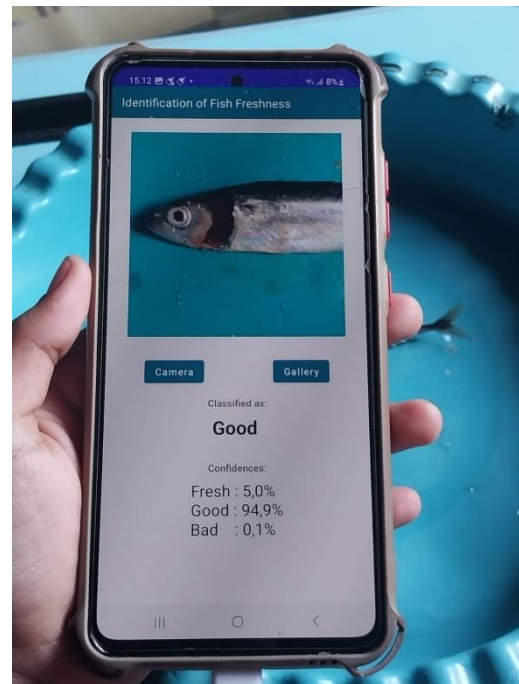
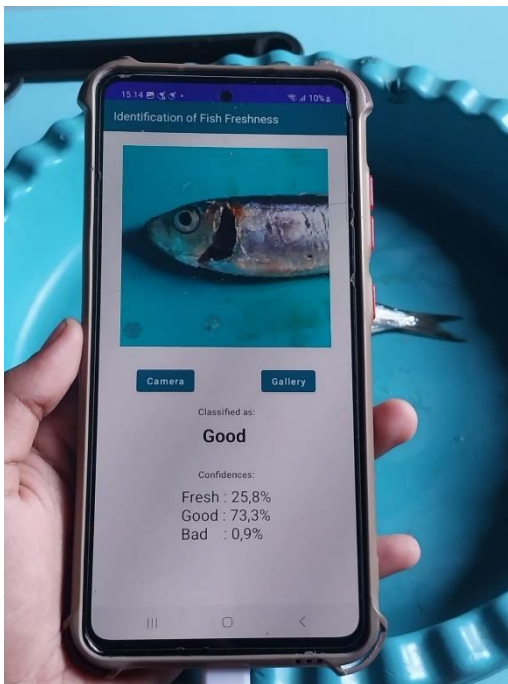
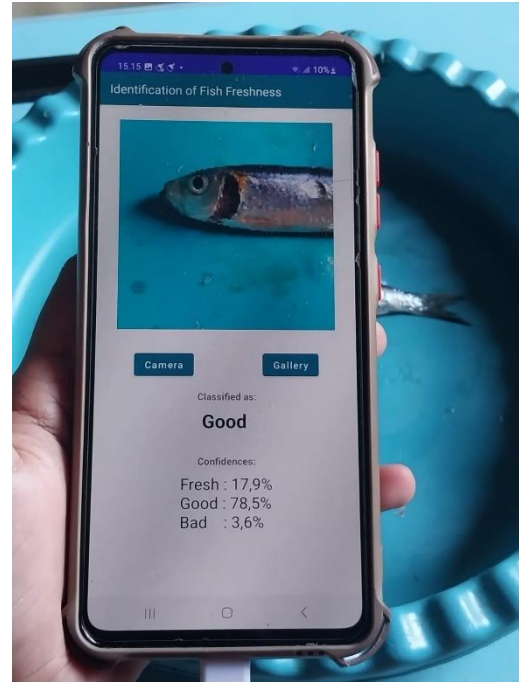
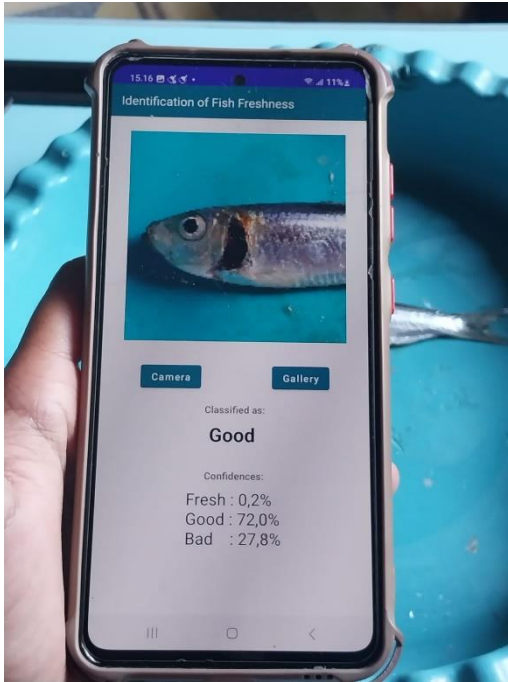
#Segar

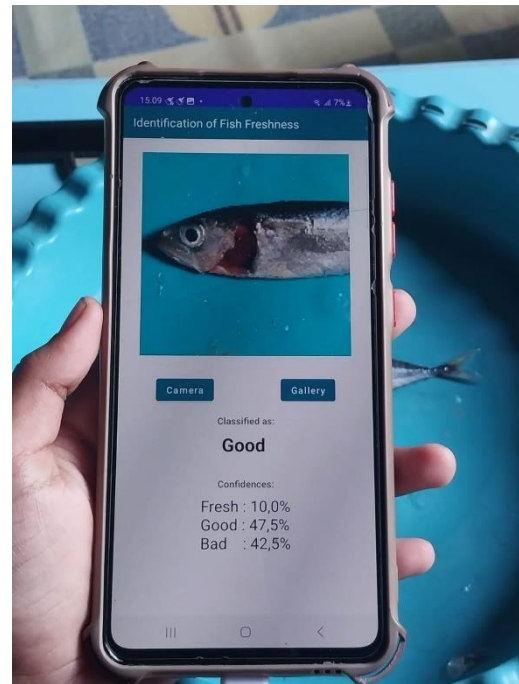
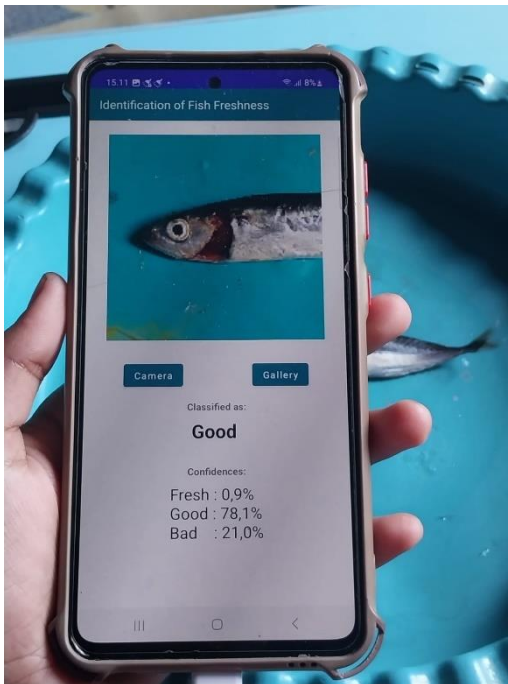
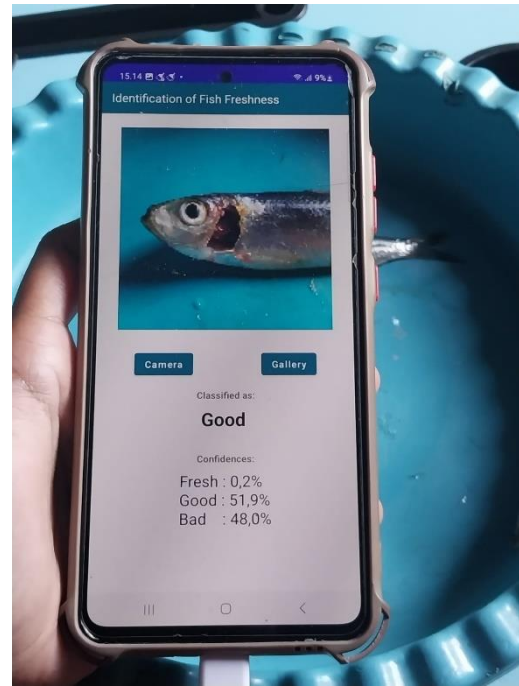
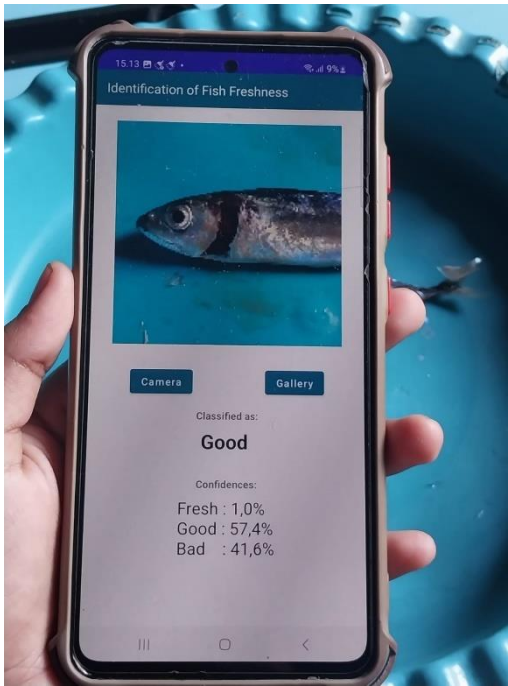


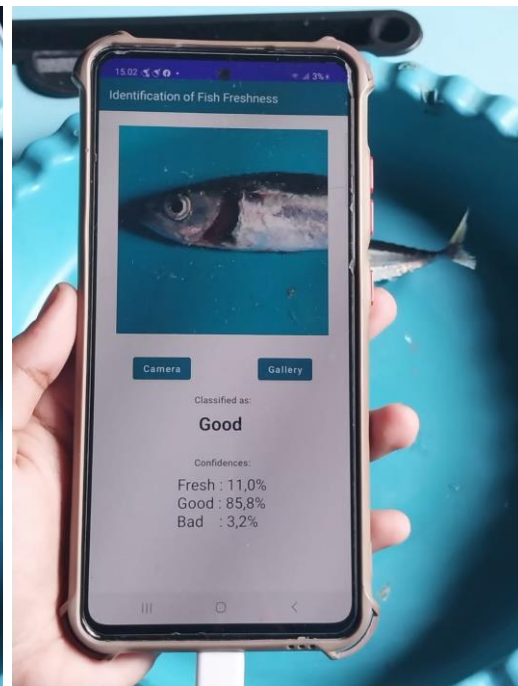
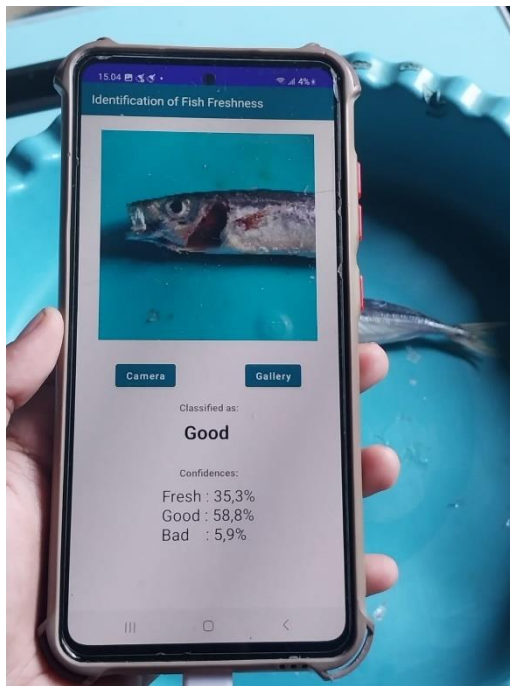




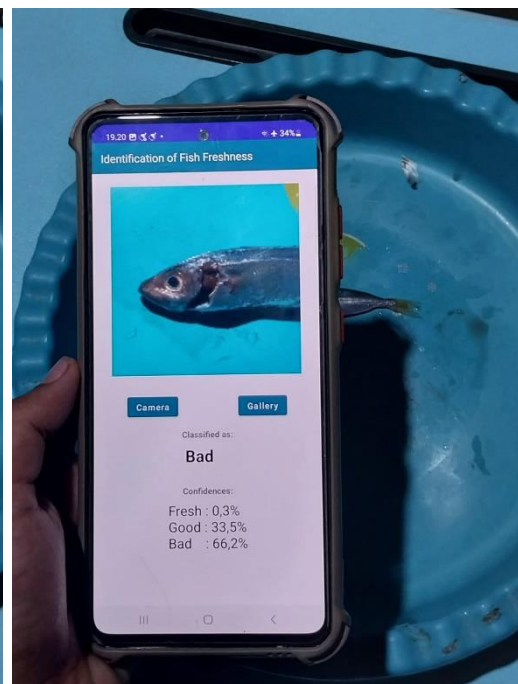
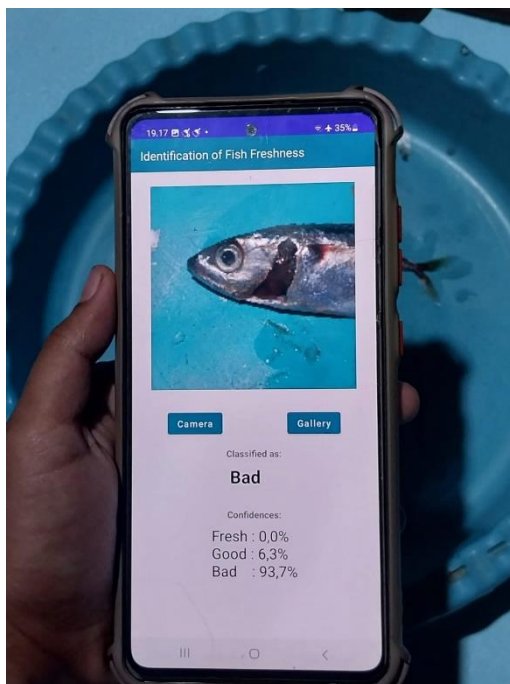
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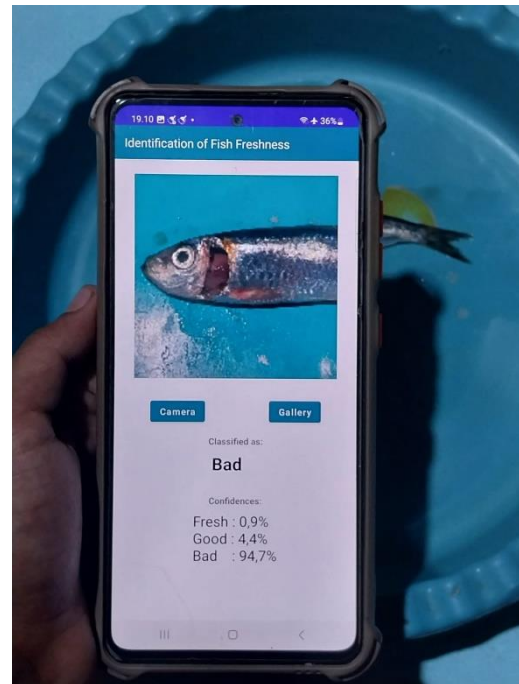
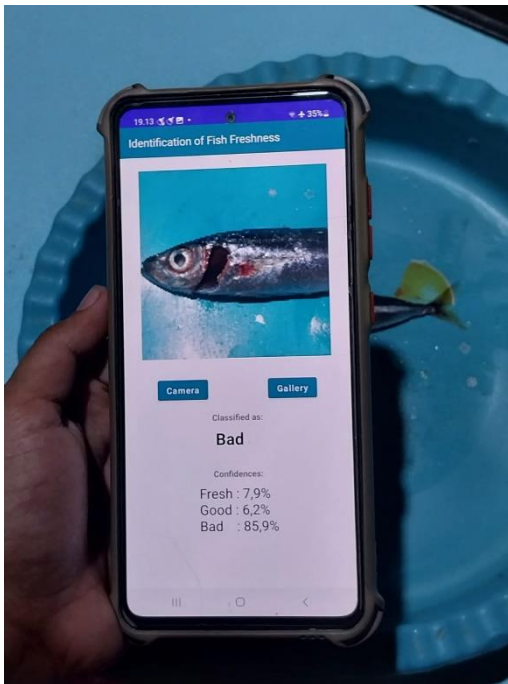
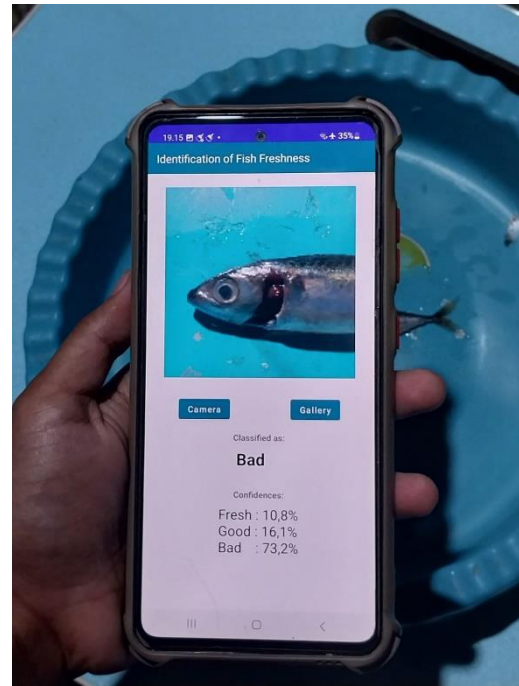
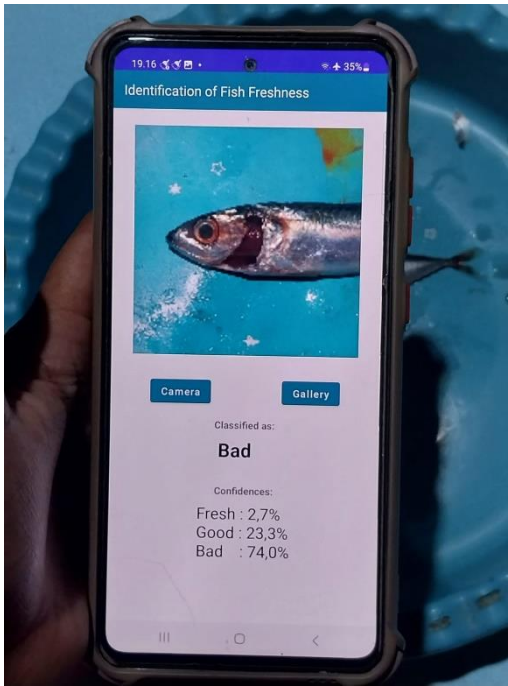


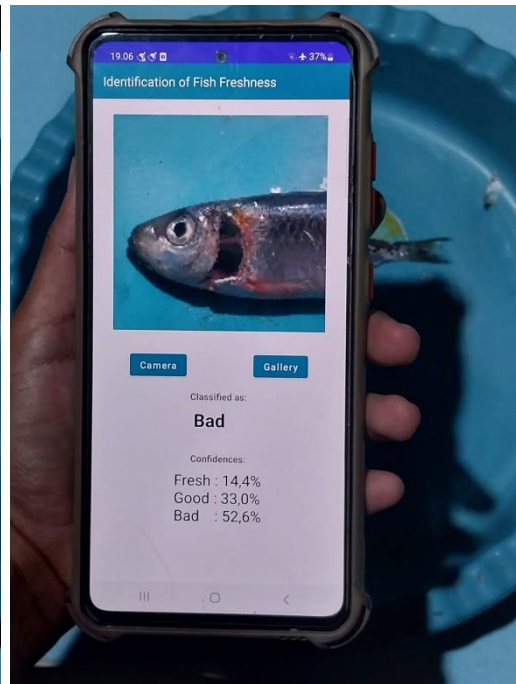
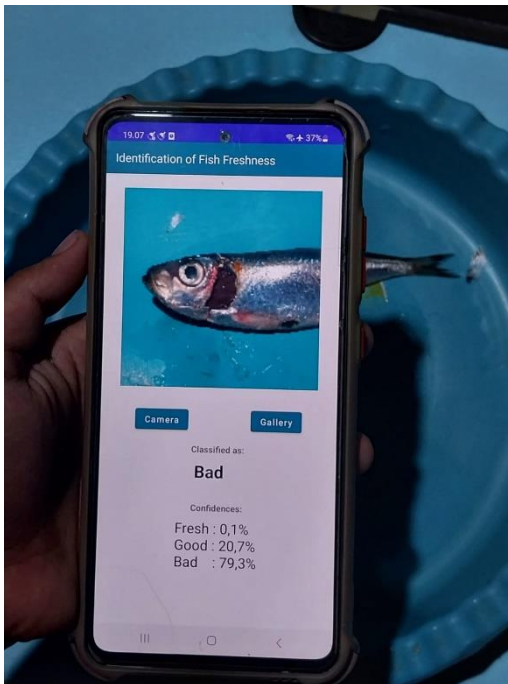
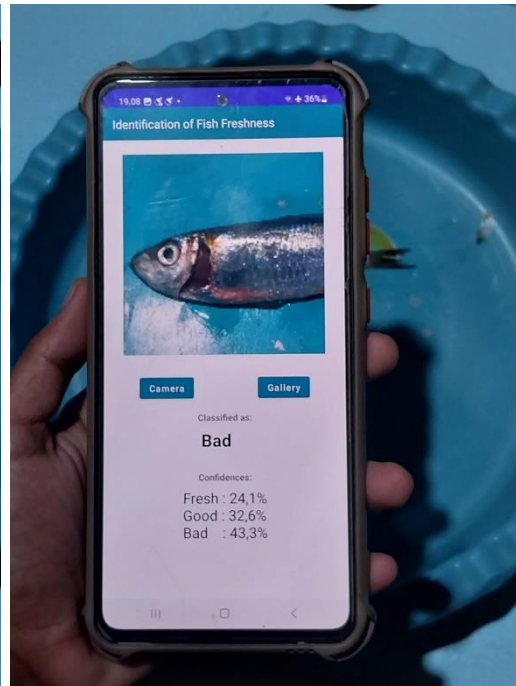
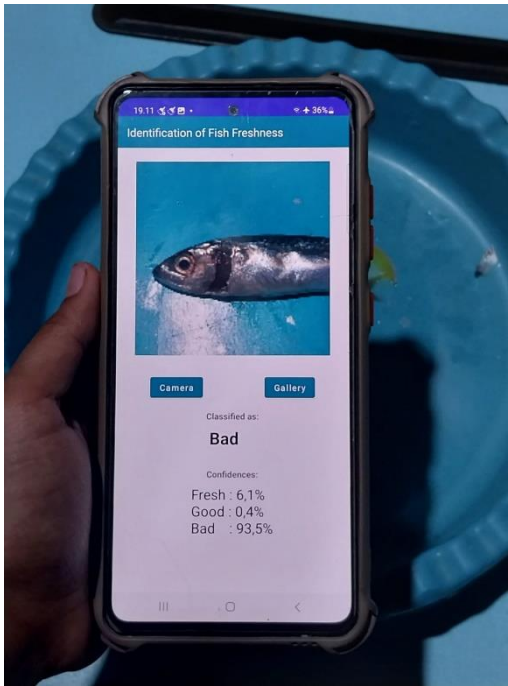




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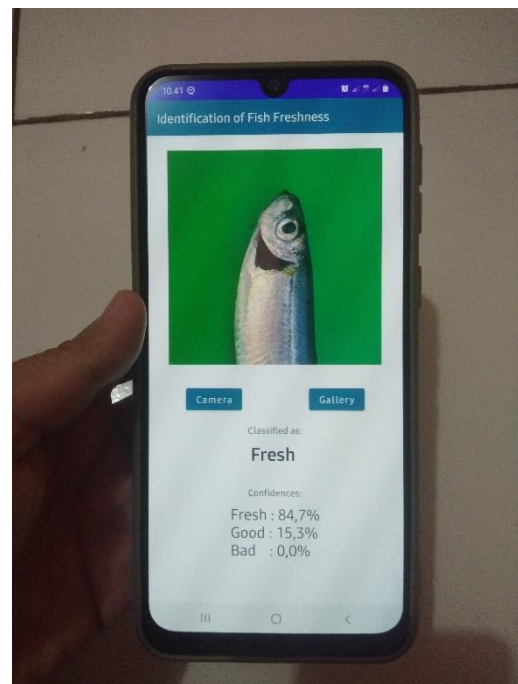
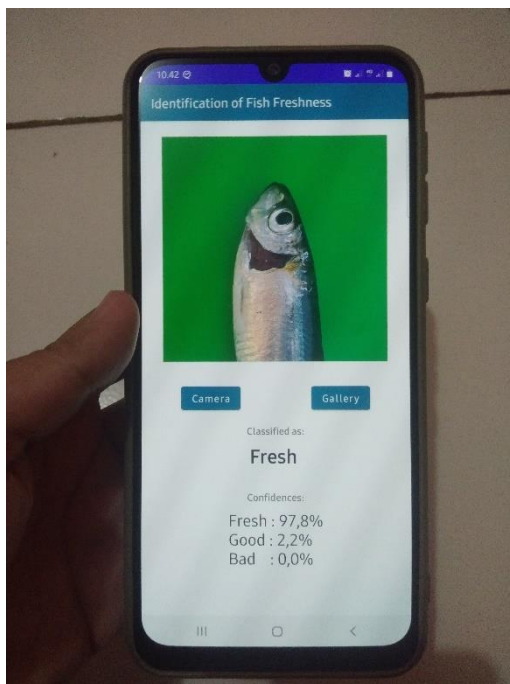
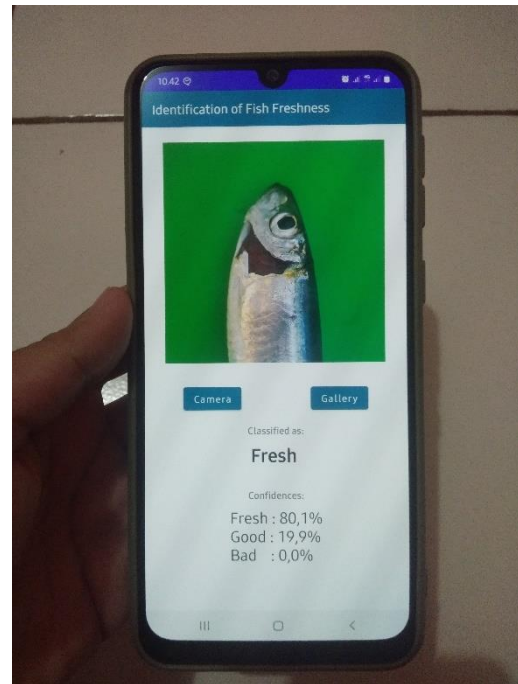
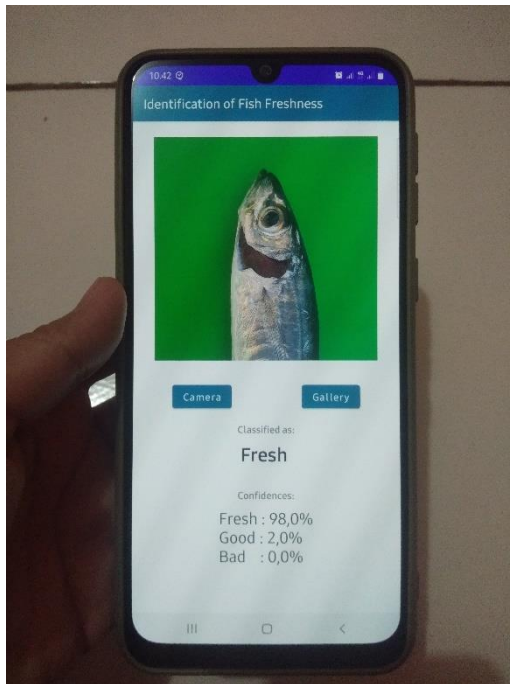


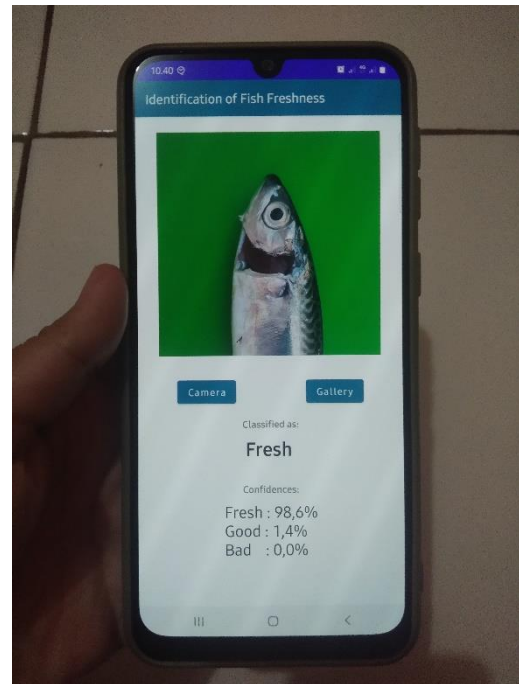
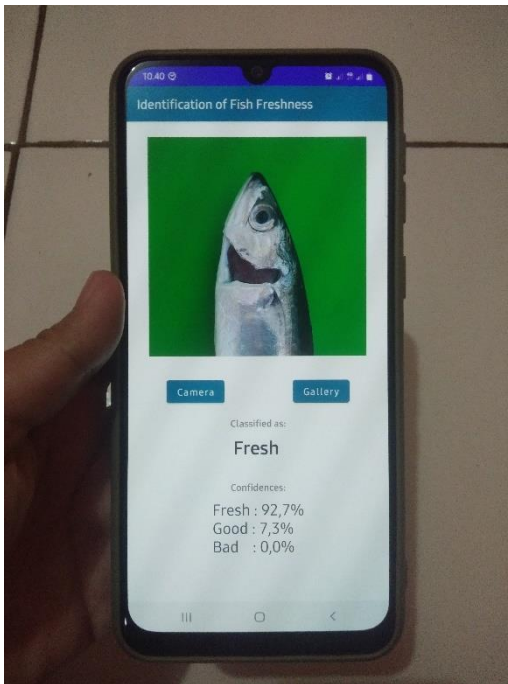
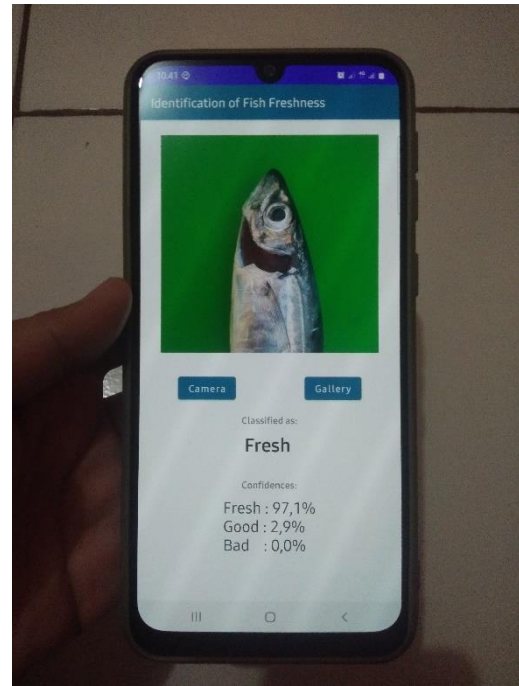
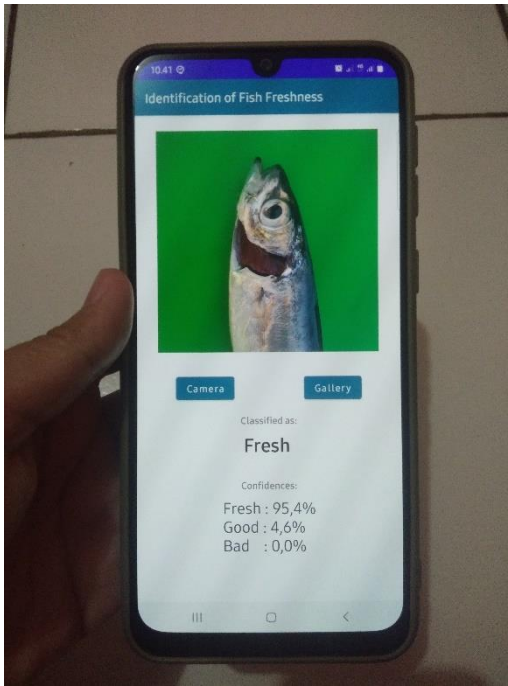


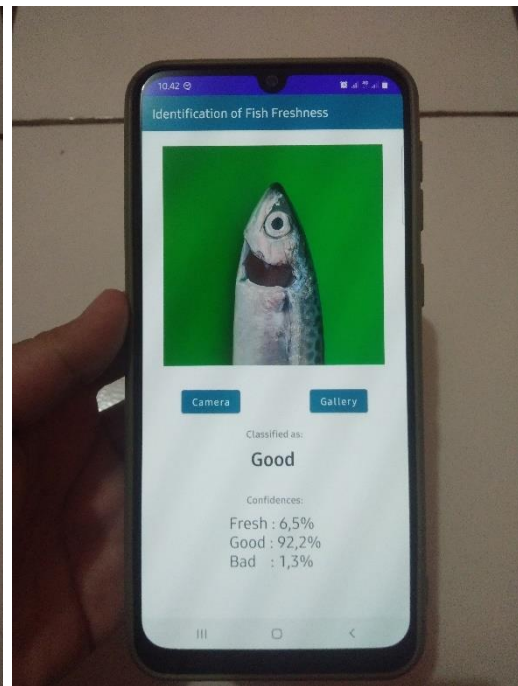
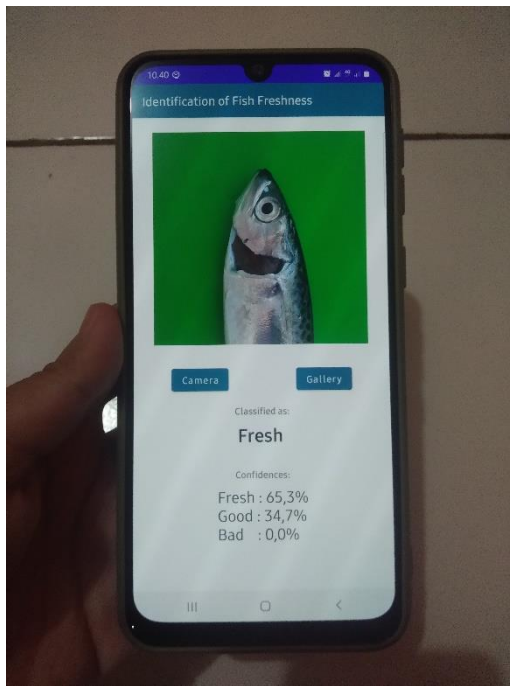


- Menggunakan Fitur Galeri

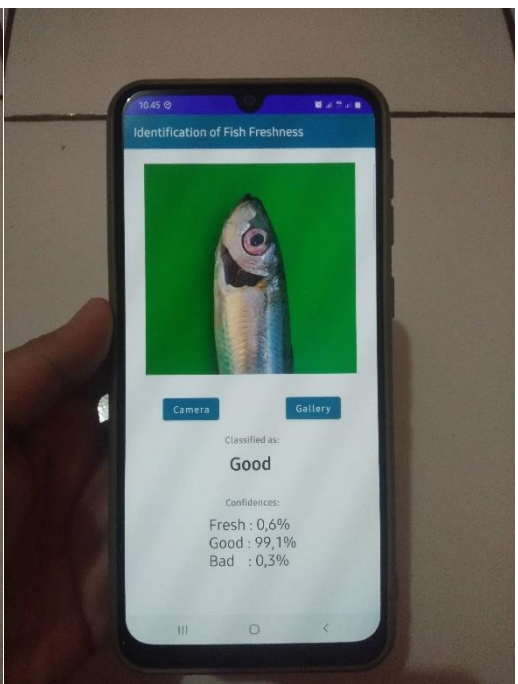
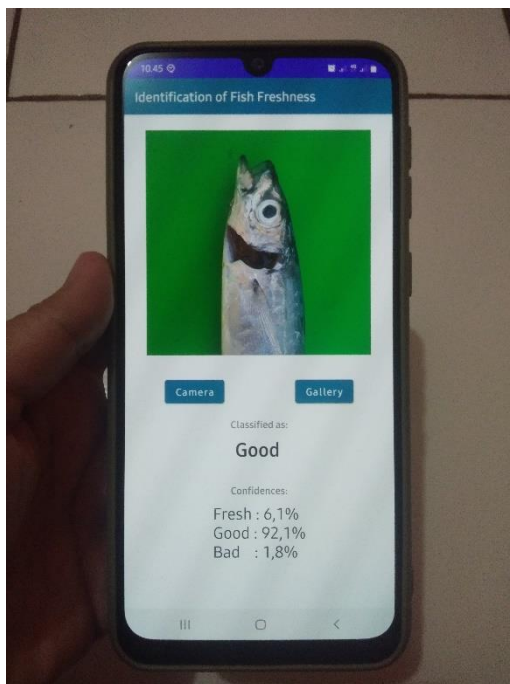
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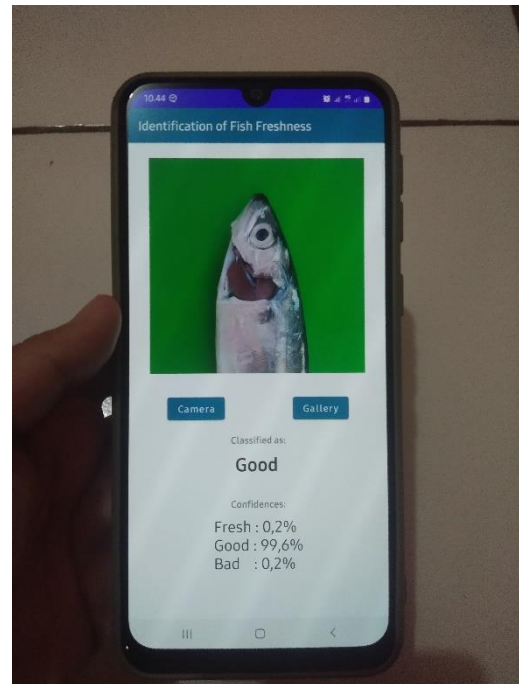
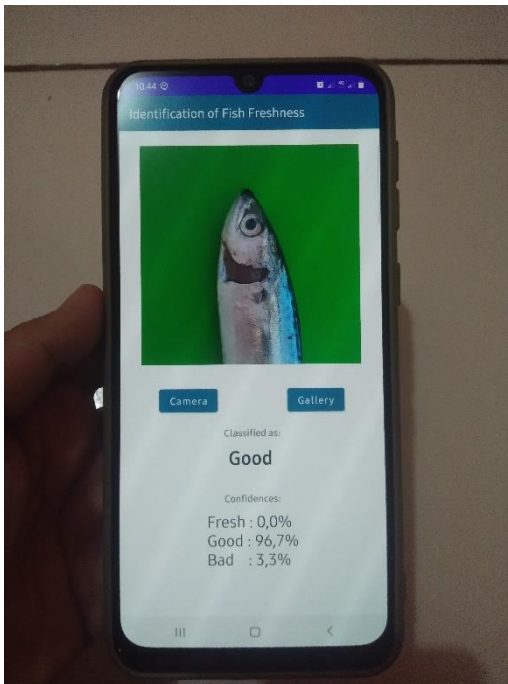
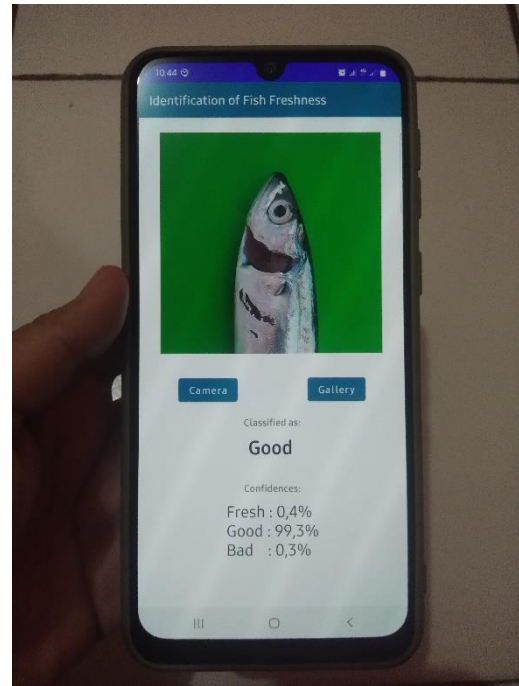
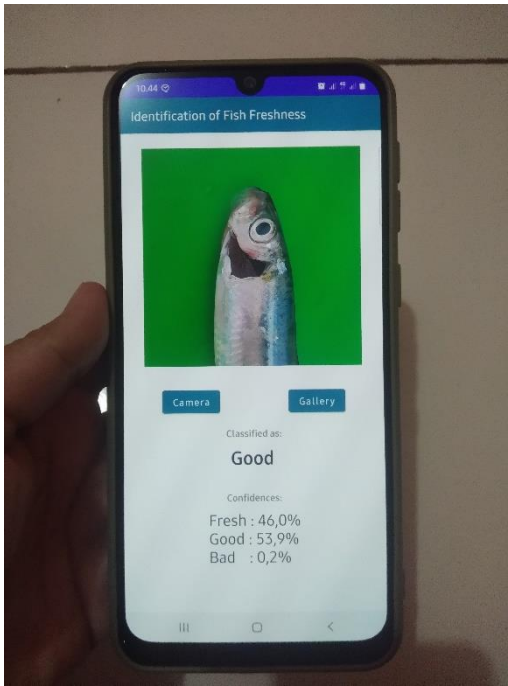


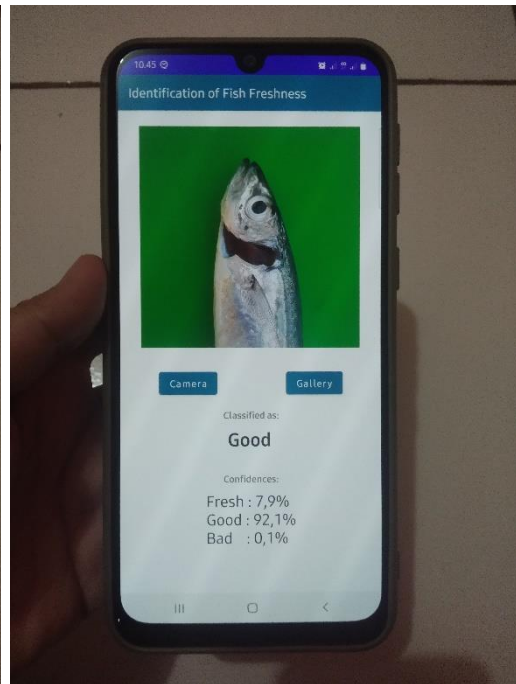
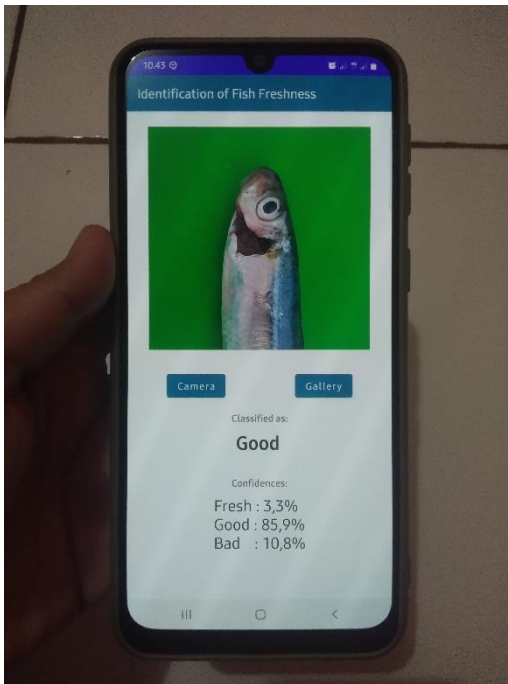
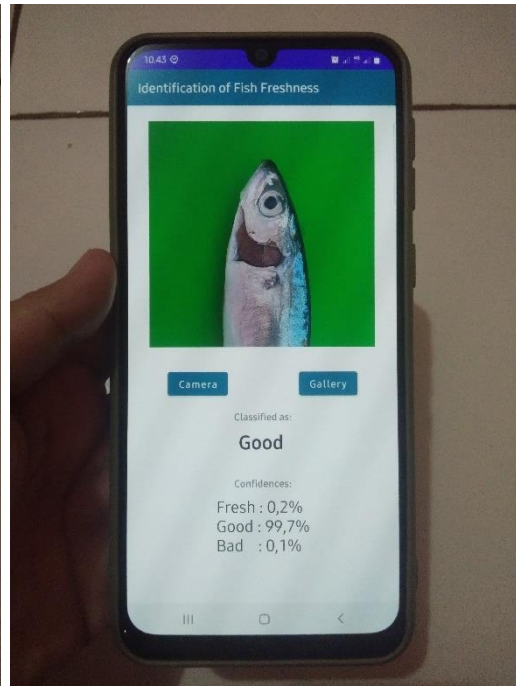
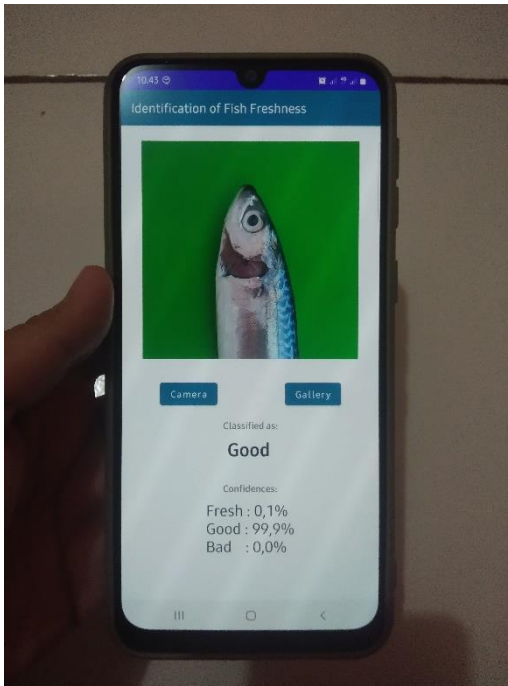




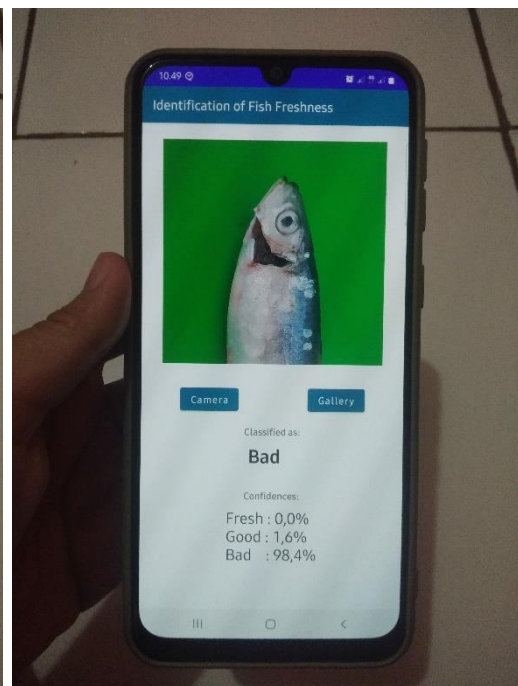
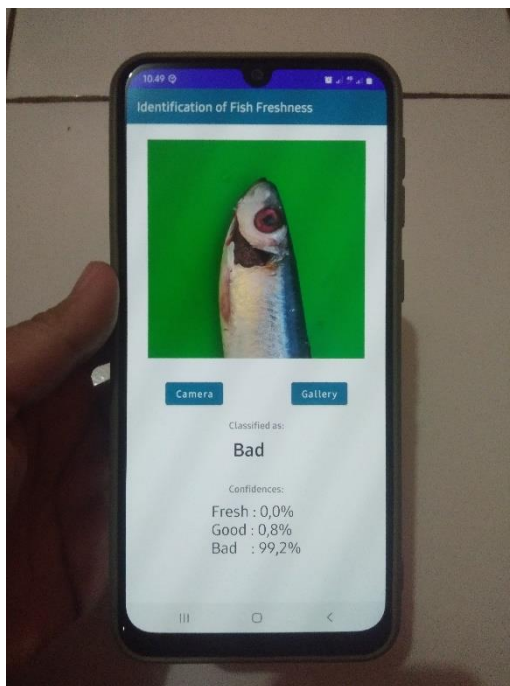
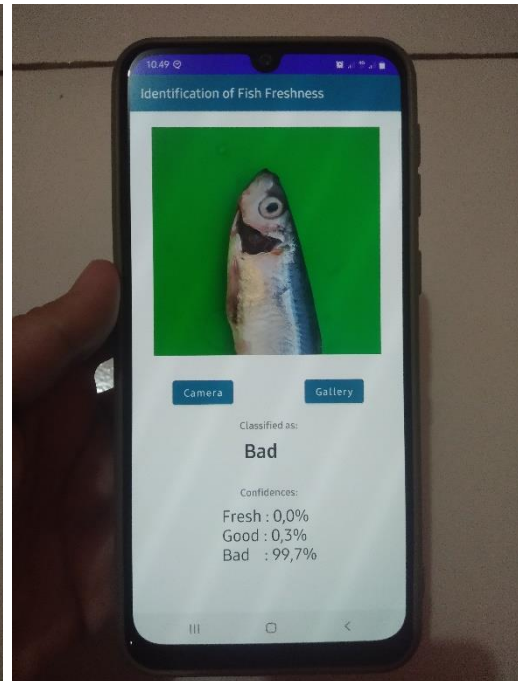
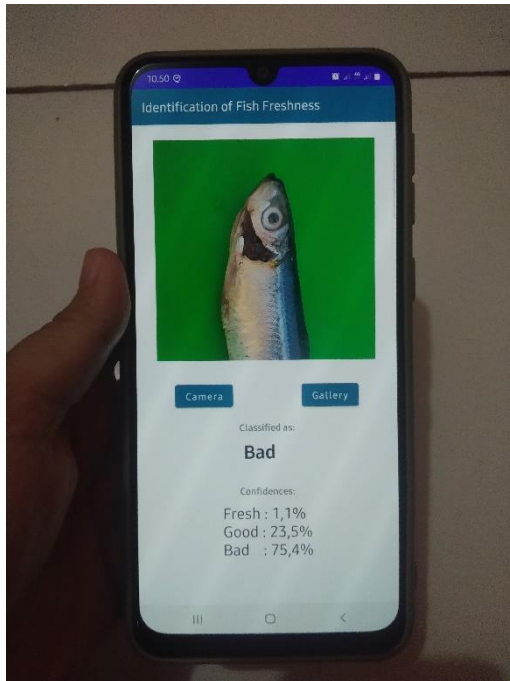
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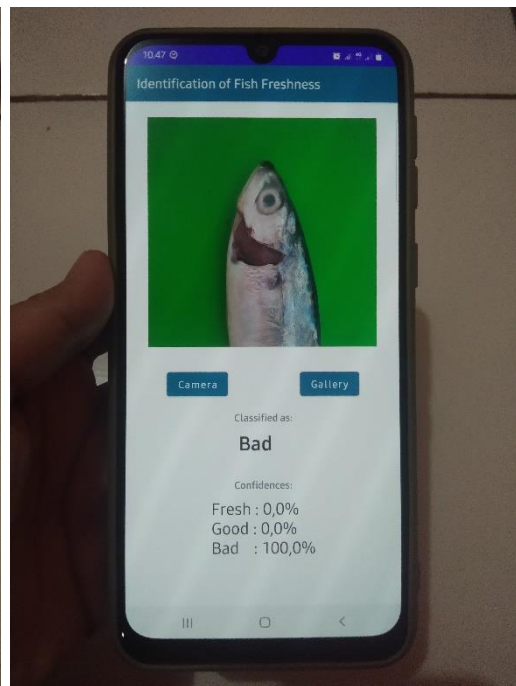
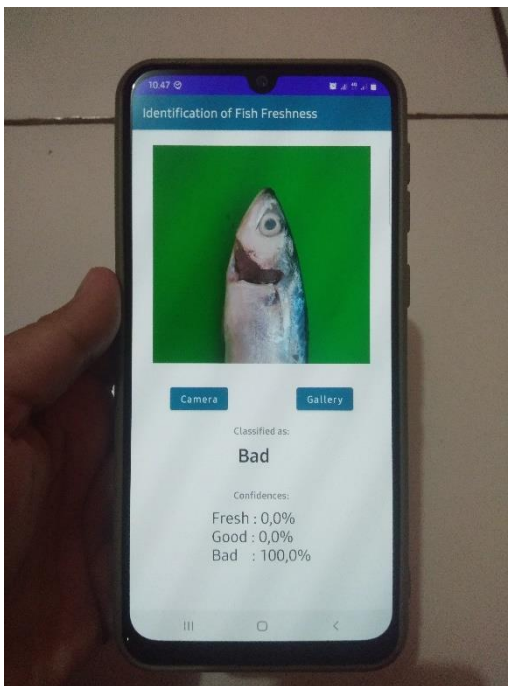
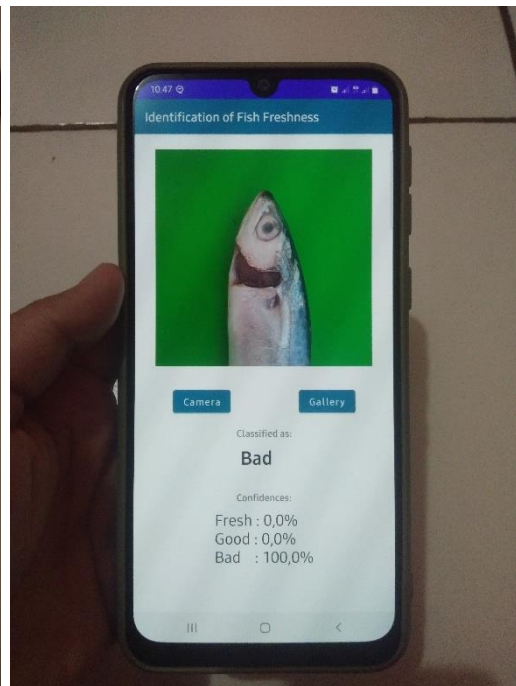
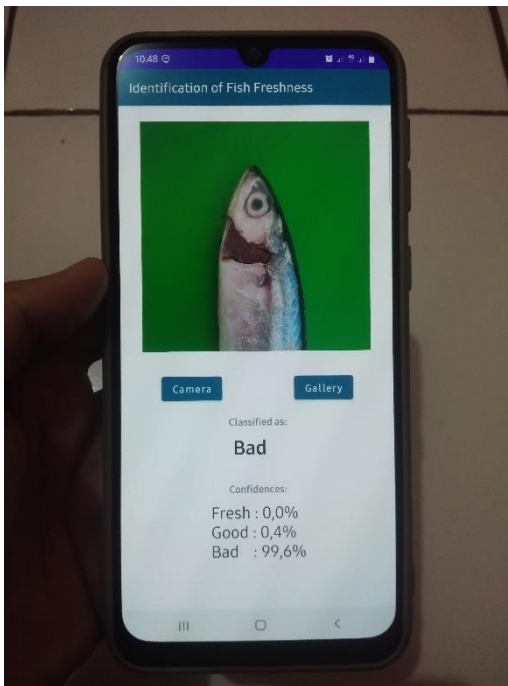


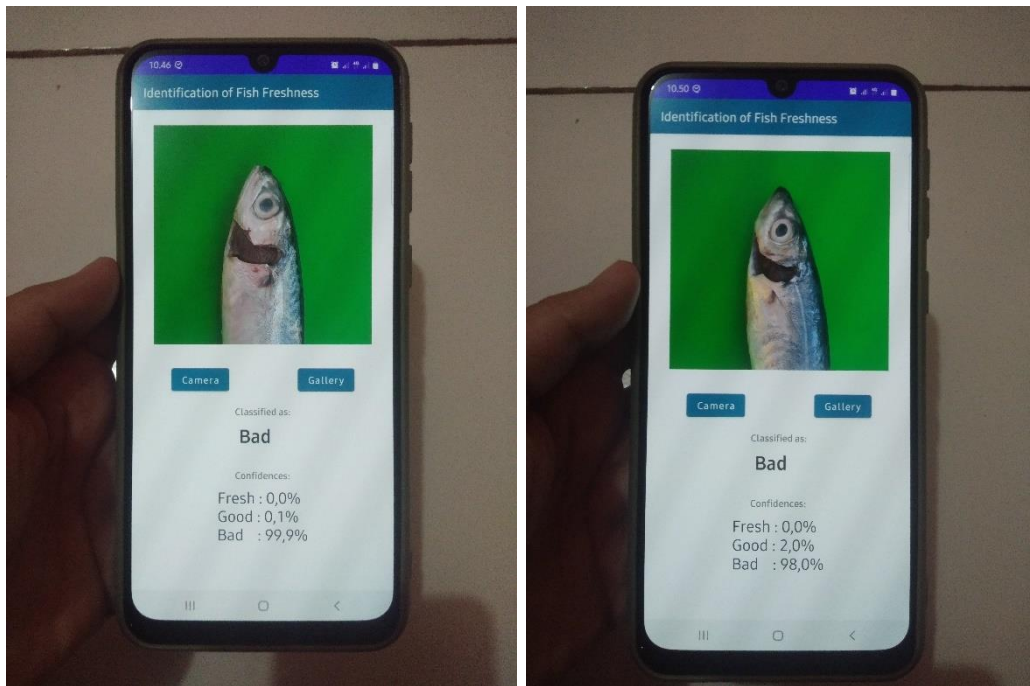




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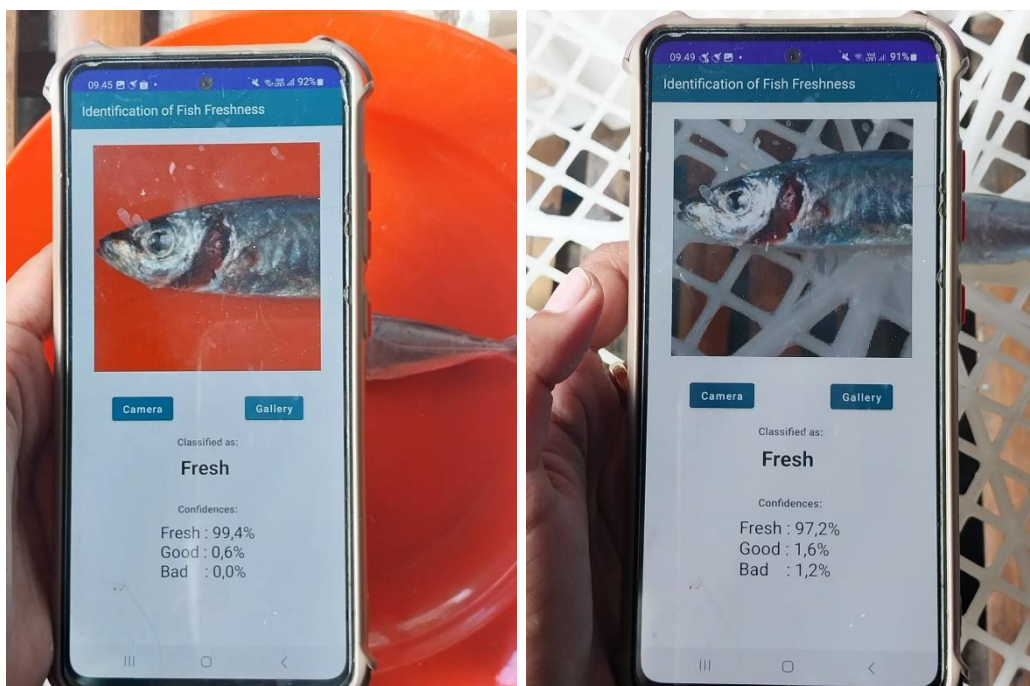


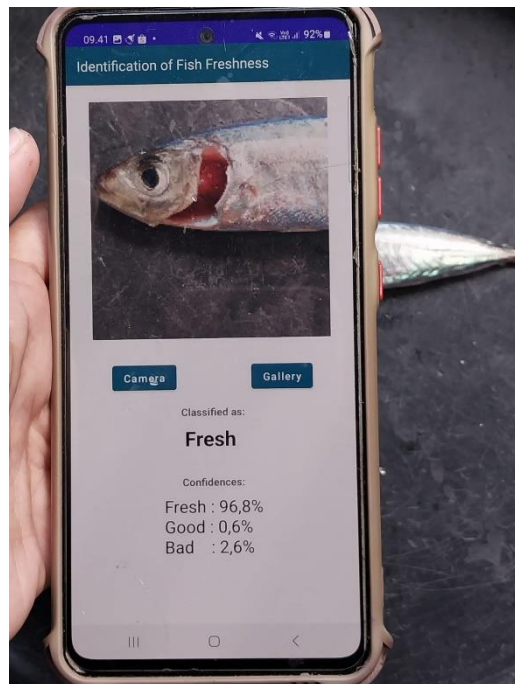
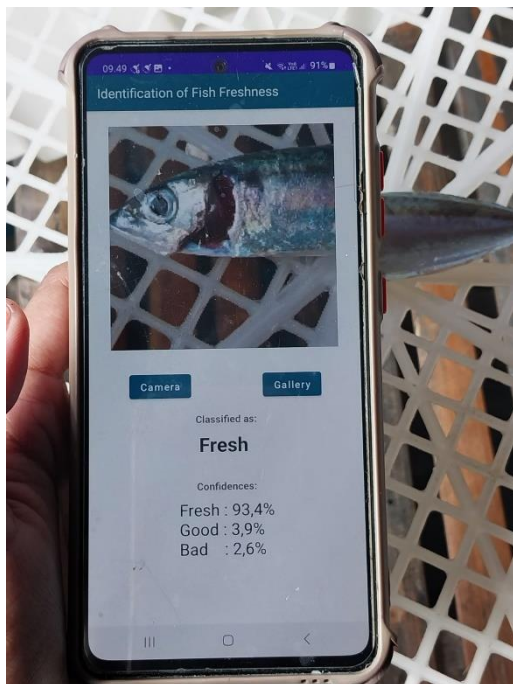
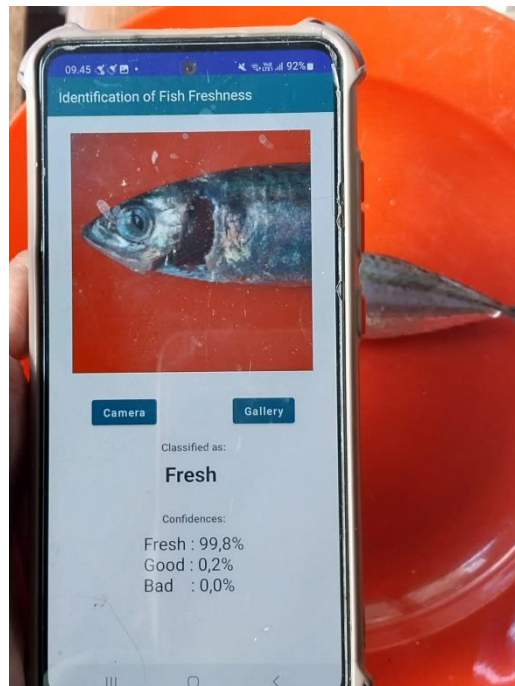
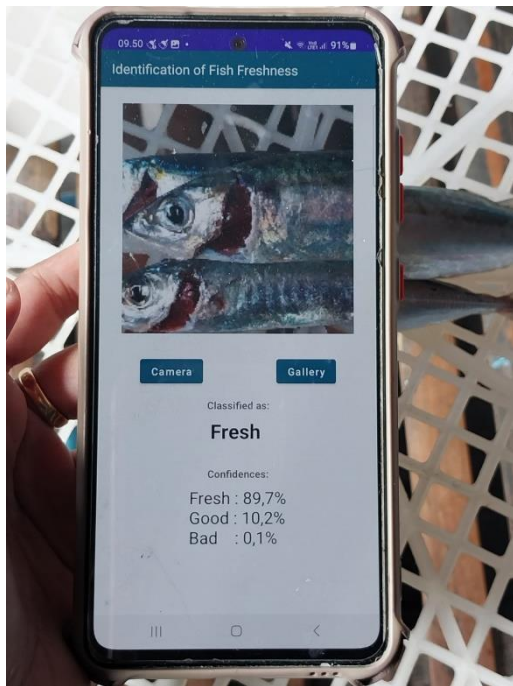


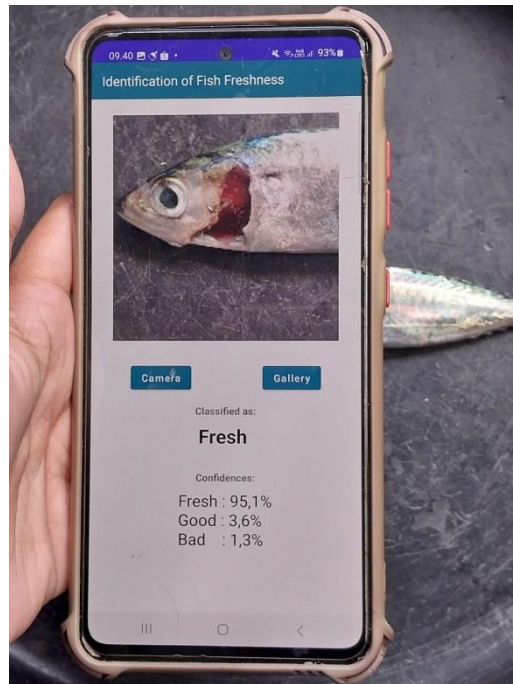
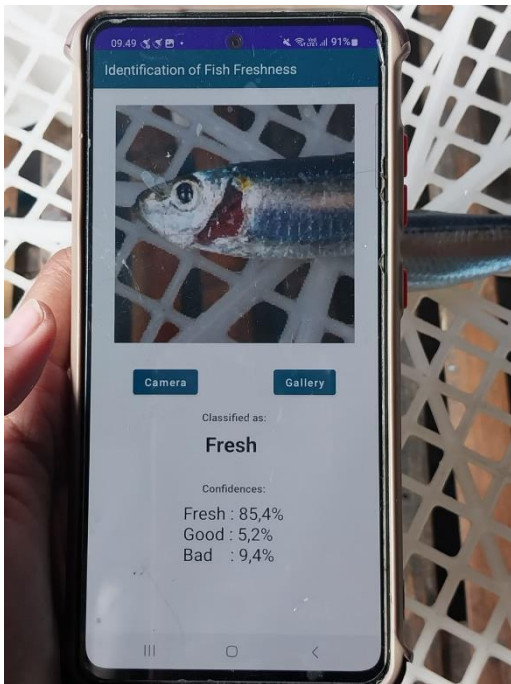
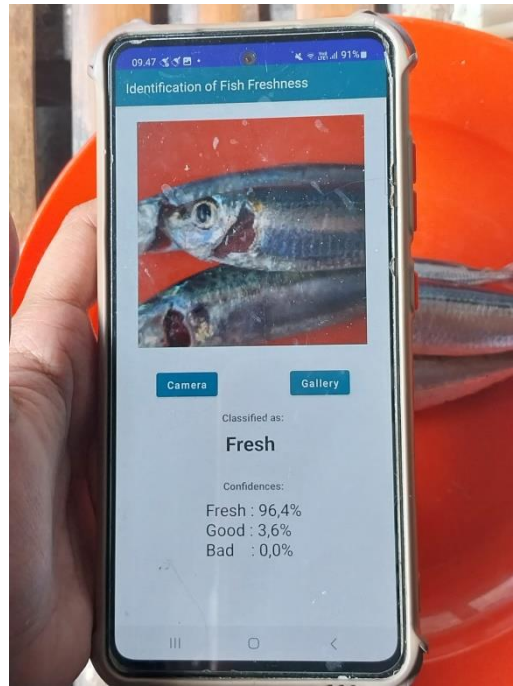
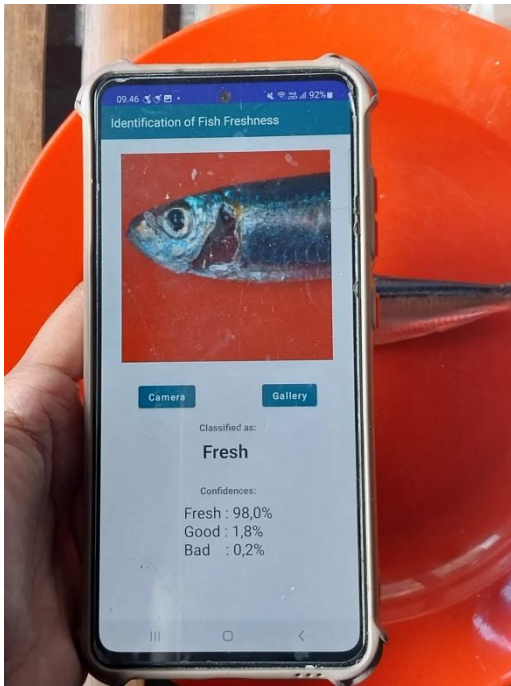


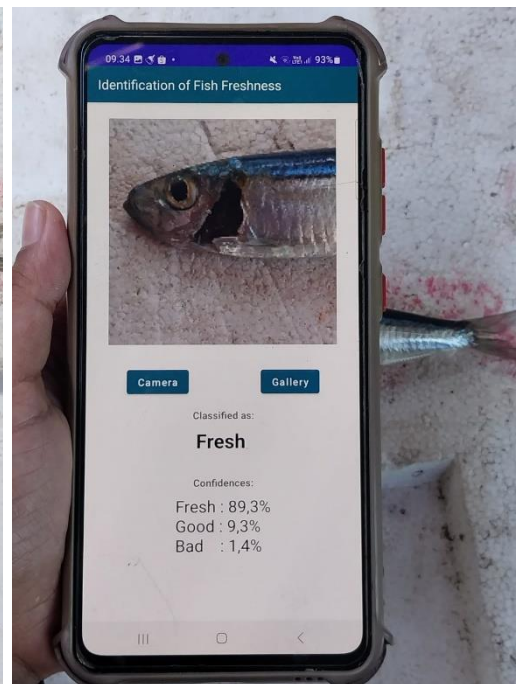
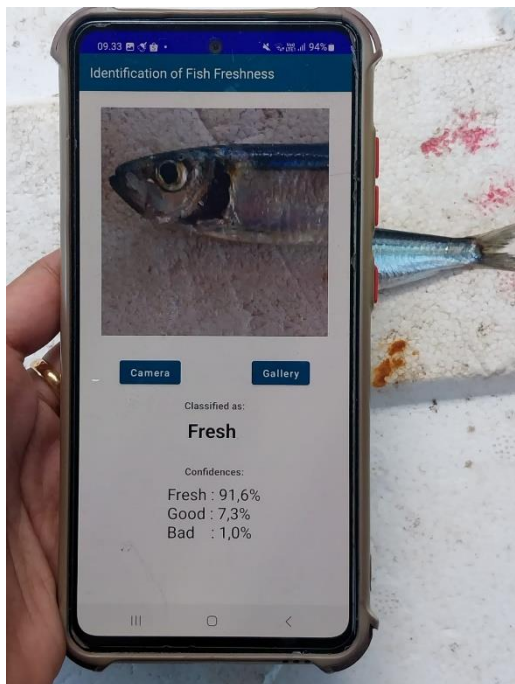
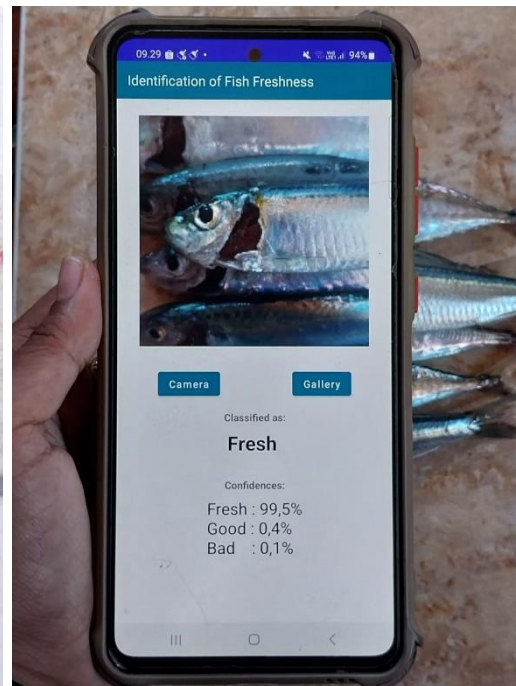
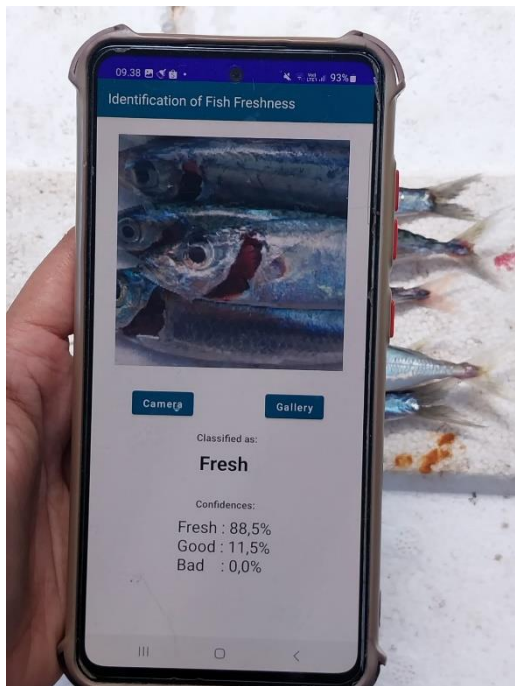
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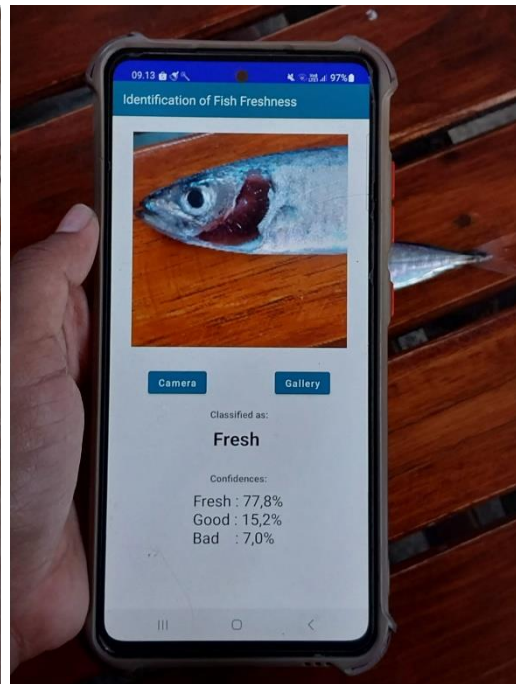
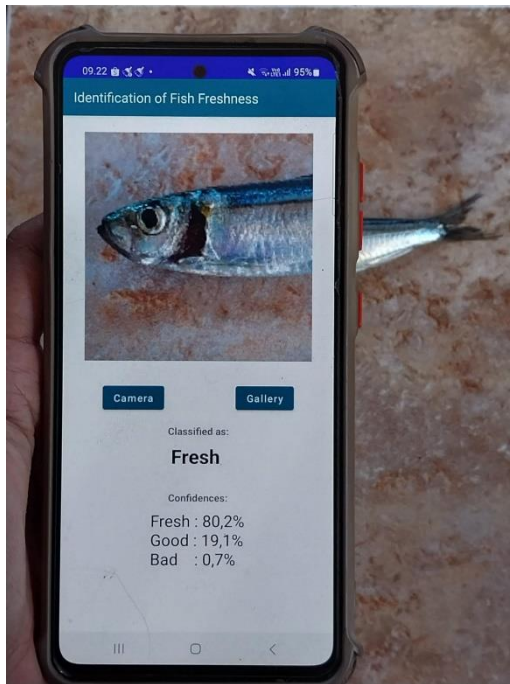
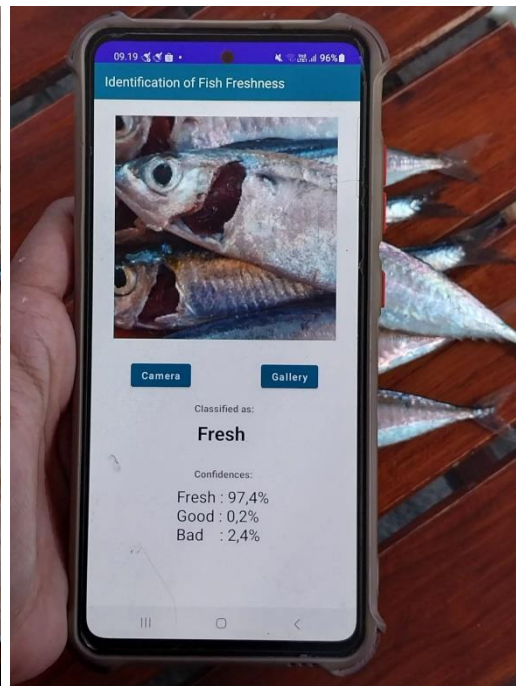
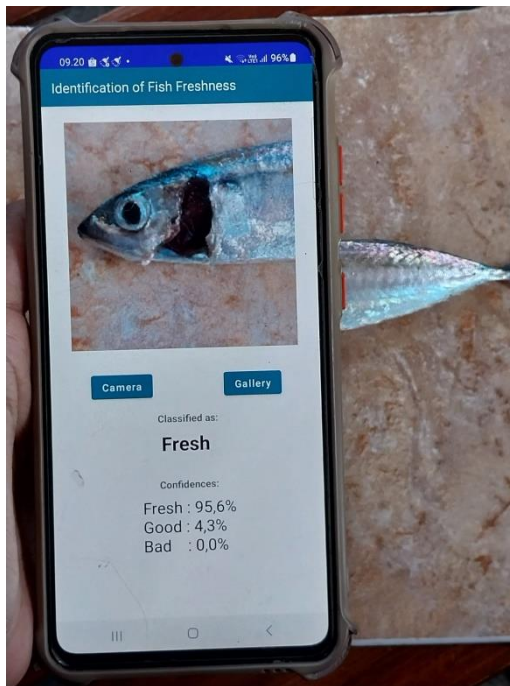
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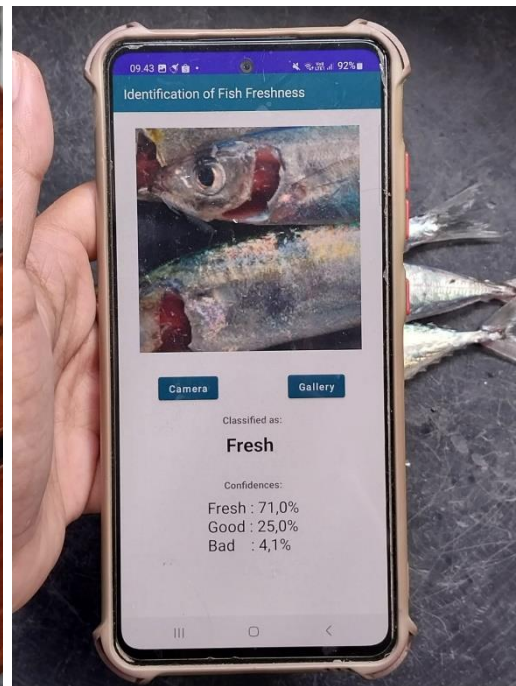
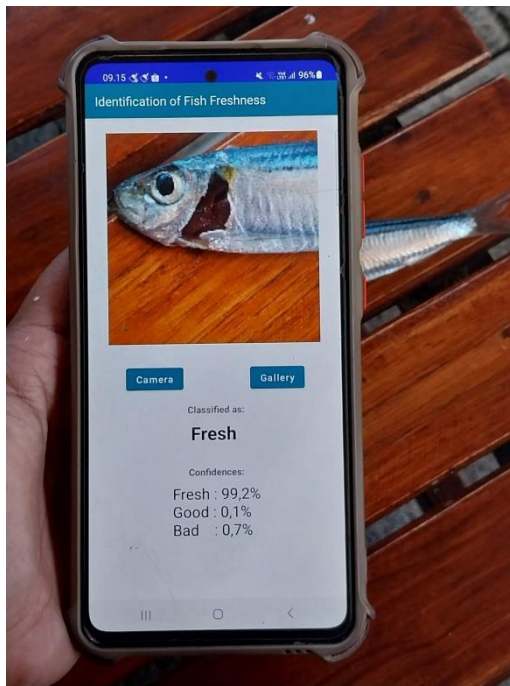




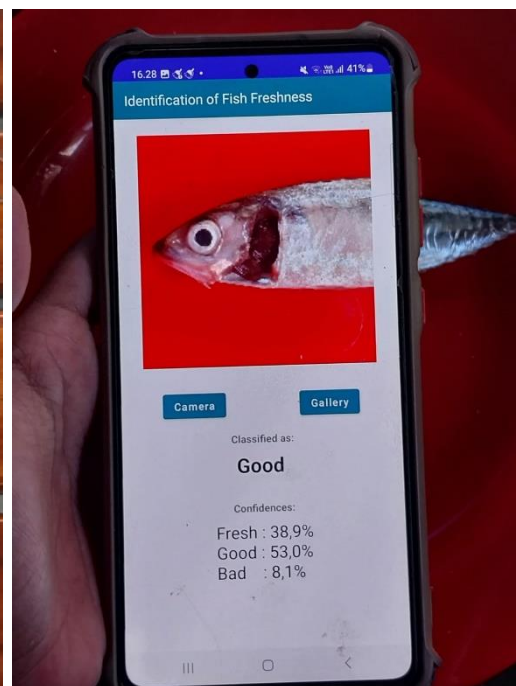
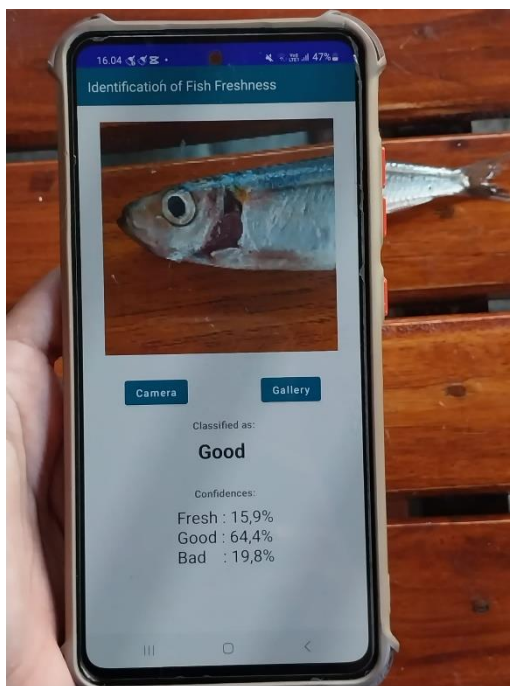


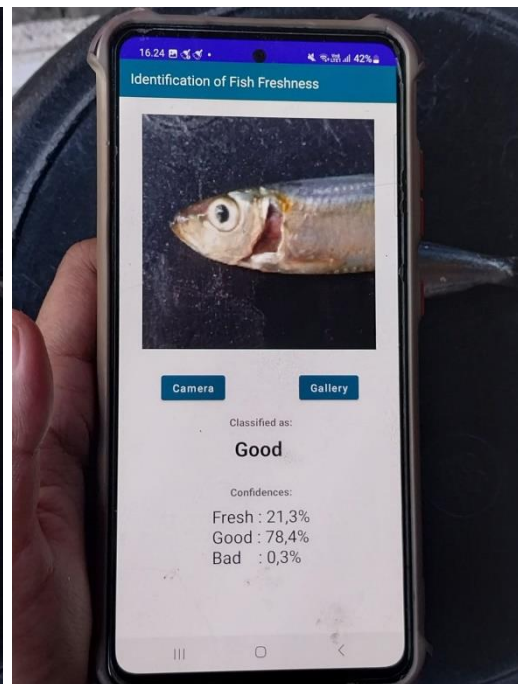
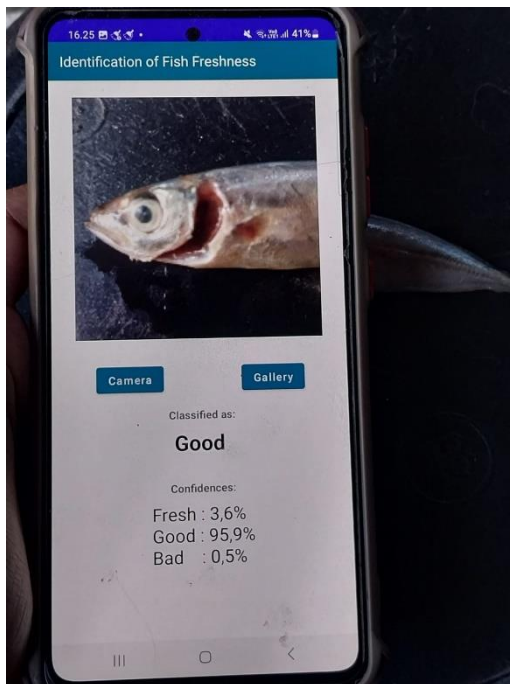
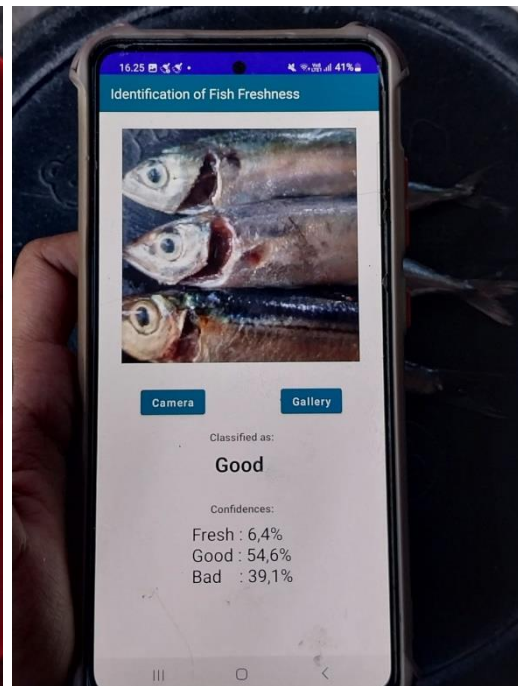
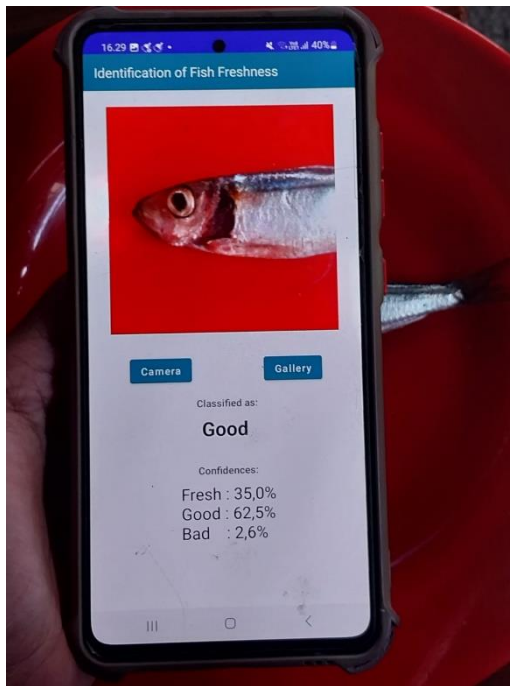


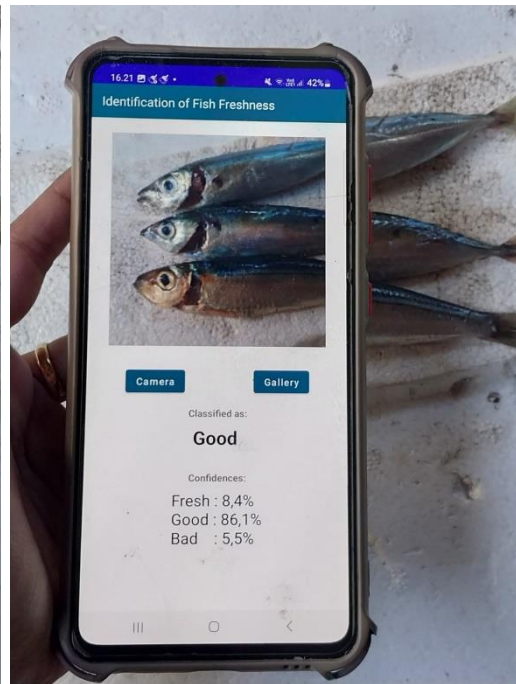
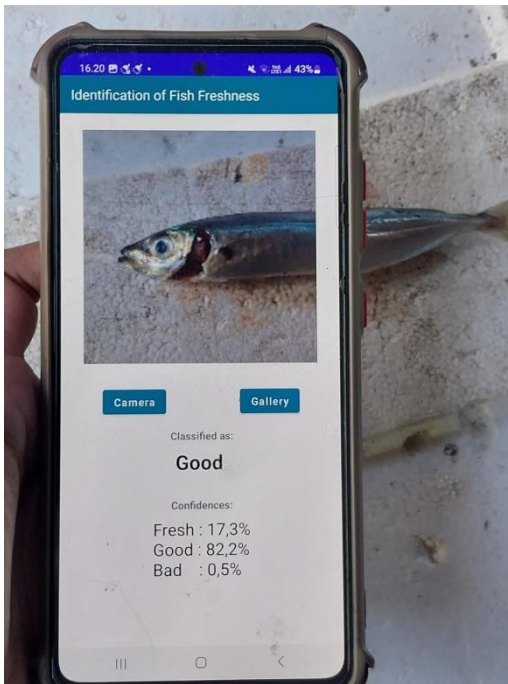
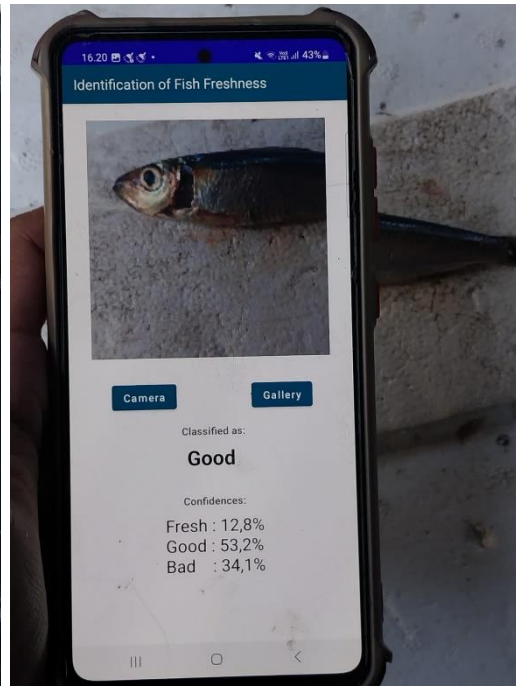
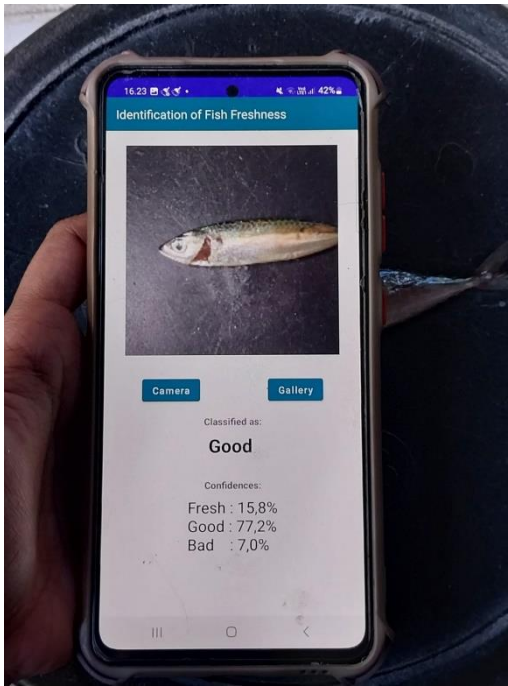


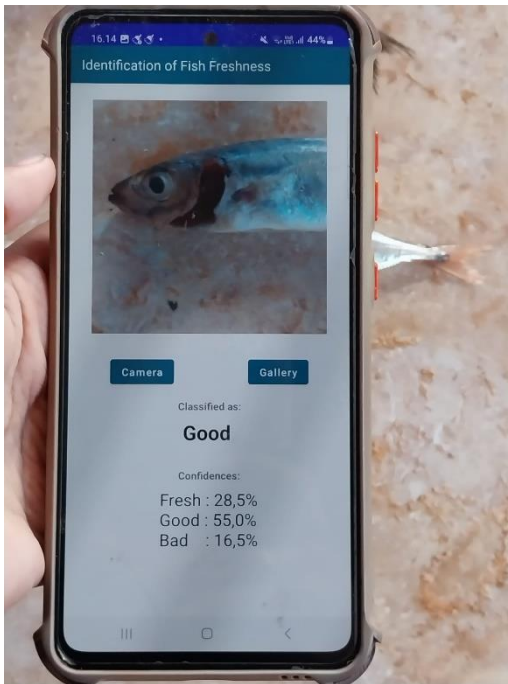
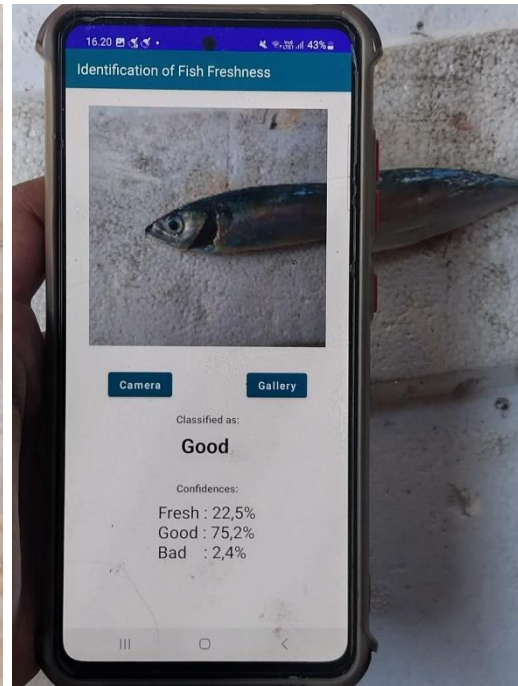
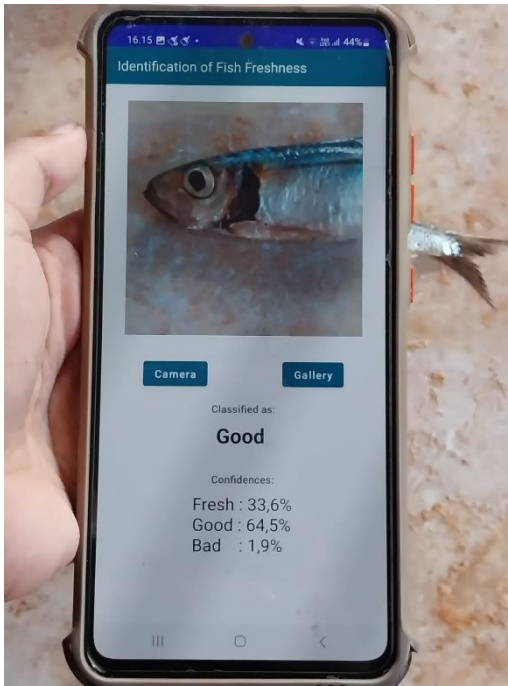


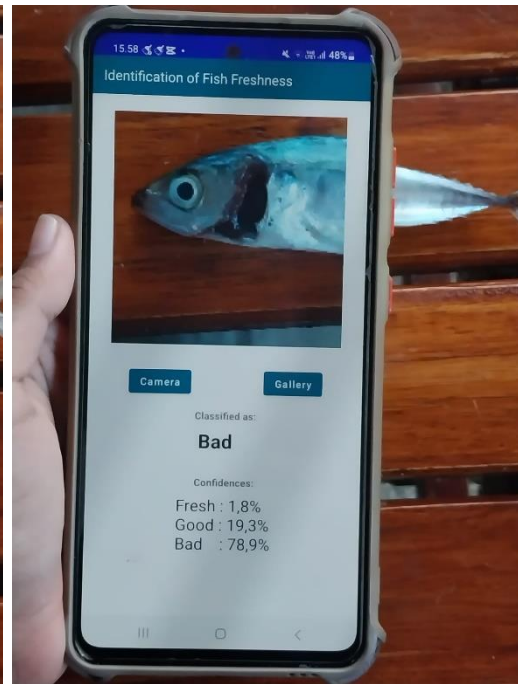
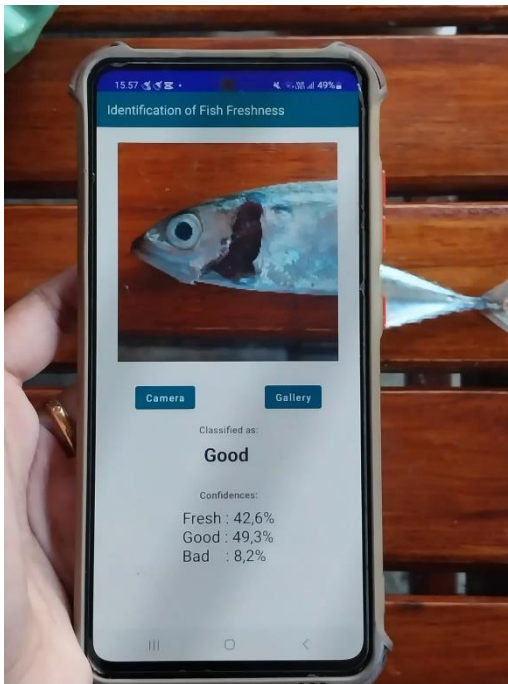
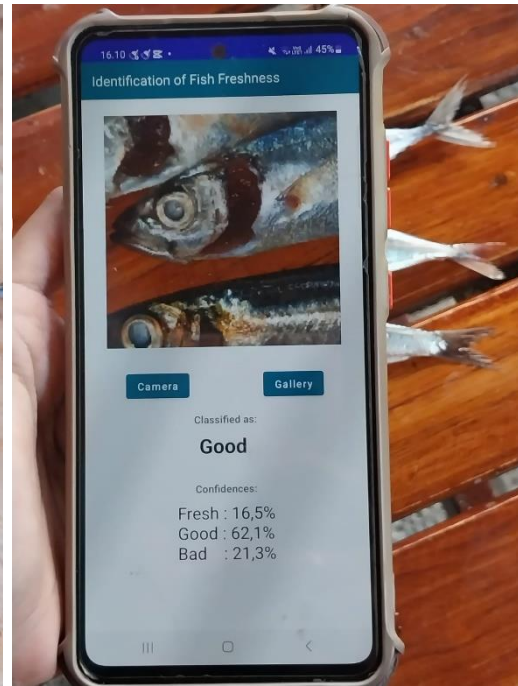
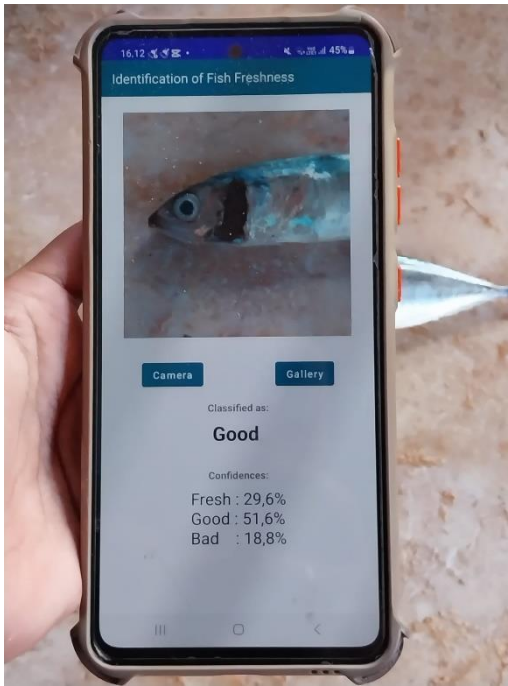
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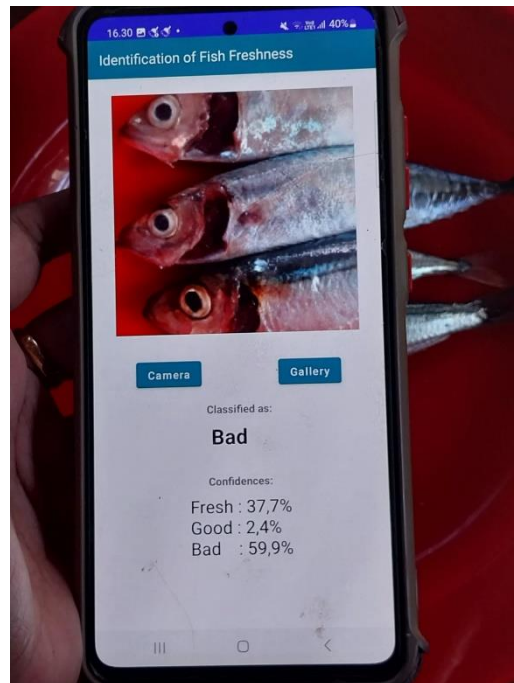
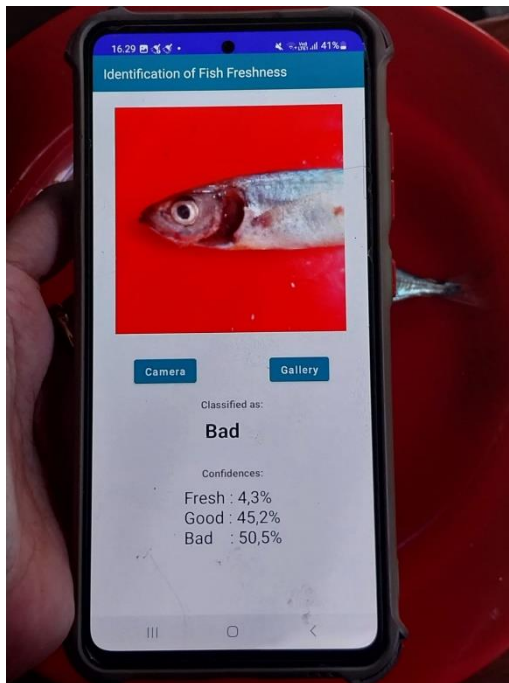












#Tidak Layak

