

DAFTAR LAMPIRAN

Lampiran 1. Dokumentasi



Lampiran 2. Kode program main.py

```

import cv2
import os
from flask import Flask, render_template, send_from_directory,
Response, request, redirect, url_for
from wiringpi import wiringpi, GPIO

app = Flask(__name__, static_folder='assets',
template_folder='templates')

cap = cv2.VideoCapture(1)
cap.set(3, 360)
cap.set(4, 240)

Inisialisasi WiringPi
wiringpi.wiringPiSetup()
led_pin = 10
wiringpi.pinMode(led_pin, GPIO.OUTPUT)
wiringpi.digitalWrite(led_pin, GPIO.HIGH)

def generate_frames():
    if not cap.isOpened():
        print("Kamera tidak dapat diakses")
    else:
        while True:
            success, frame = cap.read()
            if not success:
                break
            else:
                ret, buffer = cv2.imencode('.jpg', frame)
                frame = buffer.tobytes()
                yield (b'--frame\r\n'
                    b'Content-Type: image/jpeg\r\n\r\n' + frame
                    + b'\r\n')

def get_image_list():
    image_path = 'assets/captured'
    image_list = [filename for filename in os.listdir(image_path)
if filename.endswith('.jpg')]
    sorted_image_list = sorted(image_list)
    return sorted_image_list

sorted_images = get_image_list()
for image in sorted_images:
    print(image)

@app.route('/')
def index():
    captured_folder = 'assets/captured'

    image_count = len([f for f in os.listdir(captured_folder)

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        if f.endswith((''.jpg', '.jpeg', '.png')))]
    return render_template('index.html', image_count=image_count)

@app.route('/list-deteksi')
def deteksi():
    images = get_image_list()

    enumerated_images = list(enumerate(images, start=0))
    return render_template('list-deteksi.html',
images=enumerated_images)

@app.route('/zoom_image/<image_name>')
def zoom_image(image_name):
    image_path = os.path.join('captured',
image_name).replace(os.path.sep, '/')
    return render_template('zoom_image.html',
image_name=image_name, image_path=image_path)

@app.route('/delete_image', methods=['POST'])
def delete_image():
    image_to_delete = request.form['image_to_delete']

    # Implementasi logika delete gambar di sini
    image_path = os.path.join('assets/captured', image_to_delete)
    if os.path.exists(image_path):
        os.remove(image_path)
        print(f"Gambar {image_to_delete} berhasil dihapus.")
    else:
        print(f"Gambar {image_to_delete} tidak ditemukan.")

    return redirect(url_for('deteksi'))

@app.route('/start_camera', methods=['POST'])
def start_camera():
    global cap
    if not cap.isOpened():
        cap = cv2.VideoCapture(0)
        cap.set(4, 240)
    return redirect(url_for('index'))

@app.route('/stop_camera', methods=['POST'])
def stop_camera():
    global cap
    if cap.isOpened():
        cap.release()
    return redirect(url_for('index'))

@app.route('/video_feed')
def video_feed():
    return Response(generate_frames(), mimetype='multipart/x-
```

```
mixed-replace; boundary=frame')
```

```
if __name__ == '__main__':  
    app.run(debug=True)
```

Lampiran 3. Kode program app.py

```

import cv2
import wiringpi
import time
from wiringpi import GPIO
import os # Tambahkan ini untuk mengimpor modul os
import firebase_admin
from firebase_admin import db, credentials, messaging
import FCManager as fcm

cred = credentials.Certificate("siskam-df66d-firebase-adminsdk-
q6lbg-561ad6009d.json")
firebase_admin.initialize_app(cred)

tokens_ref = db.reference("tokens")

tokens_snapshot = tokens_ref.get()
tokens_list = [token for token in tokens_snapshot.values()] if
tokens_snapshot else []

wiringpi.wiringPiSetup()

pir_pin = 2
led_pin = 6

wiringpi.pinMode(pir_pin, GPIO.INPUT)
wiringpi.pinMode(led_pin, GPIO.OUTPUT)

def capture_image():
    # Inisialisasi objek VideoCapture dengan indeks kamera.
    Biasanya, kamera internal memiliki indeks 0.
    cap = cv2.VideoCapture(0)

    if not cap.isOpened():
        print("Kamera tidak dapat diakses.")
        return

    ret, frame = cap.read()

    if not ret:
        print("Gagal membaca frame.")
        cap.release()
        return

    timestamp = time.strftime("%Y%m%d%H%M%S")

    folder_path = "captured"
    if not os.path.exists(folder_path):
        os.makedirs(folder_path)

    file_name = os.path.join(folder_path,
f"image_{timestamp}.jpg")

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cv2.imwrite(file_name, frame)

cap.release()

print(f"Gambar berhasil disimpan: {file_name}")

try:
    while True:
        pir_value = wiringpi.digitalRead(pir_pin)

        print("Nilai PIR:", pir_value)
        if (pir_value == 1):
            wiringpi.digitalWrite(led_pin, GPIO.HIGH)
            capture_image()
            fcm.pushNotif(tokens_list)

        else:
            wiringpi.digitalWrite(led_pin, GPIO.LOW)
            time.sleep(2)

except KeyboardInterrupt:
    dengan aman
    print("Program dihentikan oleh pengguna.")

```

Lampiran 4. Kode program index.html

```

<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8" />
    <meta content="width=device-width, initial-scale=1.0"
name="viewport" />

    <title>Sistem Keamanan Kandang</title>
    <meta content="" name="description" />
    <meta content="" name="keywords" />

    <!-- Favicons -->
    <link href="assets/img/favicon.png" rel="icon" />
    <link href="assets/img/apple-touch-icon.png" rel="apple-touch-
icon" />

    <!-- Google Fonts -->
    <link href="https://fonts.gstatic.com" rel="preconnect" />
    <link

href="https://fonts.googleapis.com/css?family=Open+Sans:300,300i,4
00,400i,600,600i,700,700i|Nunito:300,300i,400,400i,600,600i,700,70
0i|Poppins:300,300i,400,400i,500,500i,600,600i,700,700i"
    rel="stylesheet"
    />

    <!-- Vendor CSS Files -->
    <link
      href="assets/vendor/bootstrap/css/bootstrap.min.css"
      rel="stylesheet"
    />
    <link
      href="assets/vendor/bootstrap-icons/bootstrap-icons.css"
      rel="stylesheet"
    />
    <link href="assets/vendor/boxicons/css/boxicons.min.css"
rel="stylesheet" />
    <link href="assets/vendor/quill/quill.snow.css"
rel="stylesheet" />
    <link href="assets/vendor/quill/quill.bubble.css"
rel="stylesheet" />
    <link href="assets/vendor/remixicon/remixicon.css"
rel="stylesheet" />
    <link href="assets/vendor/simple-datatables/style.css"
rel="stylesheet" />

    <!-- Template Main CSS File -->
    <link href="assets/css/style.css" rel="stylesheet" />
    <style>
      .video-src{
        vertical-align: middle;
        /* margin: auto; */
        /*padding-right: 100px;*/
        width: 300px;

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    }

    @media (max-width: 768px) {
        .toggle-sidebar-btn {
            display: none;
        }

        #sidebar {
            display: none;
        }

        #sidebar.active {
            display: block;
        }

        .toggle-sidebar-btn-mobile {
            display: block;
        }
    }
</style>
</head>

<body>
    <!-- ===== Header ===== -->
    <header id="header" class="header fixed-top d-flex align-items-center">
        <div class="d-flex align-items-center justify-content-between">
            <a href="" class="logo d-flex align-items-center">
                
                <span class="d-none d-lg-block">SKK-IoT</span>
            </a>
            <i class="bi bi-list toggle-sidebar-btn"></i>
        </div>
        <!-- End Logo -->

        <nav class="header-nav ms-auto">
            <ul class="d-flex align-items-center"></ul>
        </nav>
        <!-- End Icons Navigation -->
    </header>
    <!-- End Header -->

    <!-- ===== Sidebar ===== -->
    <aside id="sidebar" class="sidebar">
        <ul class="sidebar-nav" id="sidebar-nav">
            <li class="nav-item">
                <a class="nav-link" href="/">
                    <i class="bi bi-grid"></i>
                    <span>Dashboard</span>
                </a>
            </li>
            <!-- End Dashboard Nav -->
            <li class="nav-item">

```

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        <a class="nav-link collapsed" href="/list-deteksi">
            <i class="bi bi-box-arrow-in-right"></i>
            <span>List Terdeteksi</span>
        </a>
    </li>

</aside>
<!-- End Sidebar-->

<main id="main" class="main">
    <div class="pagetitle">
        <h1>Dashboard</h1>
        <nav>
            <ol class="breadcrumb">
                <li class="breadcrumb-item"><a href="{{ index
}}">Home</a></li>
                <li class="breadcrumb-item active">Dashboard</li>
            </ol>
        </nav>
    </div>
    <!-- End Page Title -->

    <section class="section dashboard">
        <div class="row">
            <!-- Left side columns -->
            <div class="col-lg">
                <div class="row">
                    <!-- Sales Card -->
                    <div class="col-xxl-4 col-md-6">
                        <div class="card info-card sales-card">
                            <div class="filter">
                                <a class="icon" href="#" data-bs-
toggle="dropdown"
                                ><i class="bi bi-three-dots"></i>
                                </a>
                            </div>

                            <div class="card-body">
                                <h5 class="card-title"><div
id="date"></div></h5>

                                <div class="d-flex align-items-center">
                                    <div
                                        class="card-icon rounded-circle d-flex
align-items-center justify-content-center"
                                    >
                                        <i class="bi bi-clock"></i>
                                    </div>
                                    <div class="ps-3">
                                        <div class="inner">
                                            <h3><div id="clock"></div></h3>
                                        </div>
                                    </div>
                                </div>
                            </div>
                        </div>
                    </div>
                </div>
            </div>
        </div>
    </section>

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        </div>
    </div>
</div>
</div>
<!-- End Sales Card -->

<!-- Revenue Card -->
<div class="col-xxl-4 col-md-6">
    <div class="card info-card revenue-card">
        <div class="filter">
            <a class="icon" href="#" data-bs-
toggle="dropdown"
            ><i class="bi bi-three-dots"></i>
            </a>

        </div>

        <div class="card-body">
            <h5 class="card-title">
                Total Terdeteksi
            </h5>

            <div class="d-flex align-items-center">
                <div
                    class="card-icon rounded-circle d-flex
align-items-center justify-content-center"
                >
                    <i class="bi bi-person-bounding-box"></i>
                </div>
                <div class="ps-3">
                    <h3>
<div id="image-count"> {{ image_count }}    </div>
                    </h3>

                </div>
            </div>
        </div>
    </div>
</div>
<!-- End Revenue Card -->

<!-- Customers Card -->

<!-- End Customers Card -->
<!-- Sales Card -->
<div class="col-xxl-4 col-md-6">
    <div class="card info-card sales-card">

        <div class="card-body">
            <h5 class="card-title">LIVE VIEW </h5>

            <div class="d-flex align-items-center">
                

            </div>

```

```

        <div class="d-flex align-items-center">
            <br>
            <br>
            <div class="col">
                <form method="POST" action="{{
url_for('start_camera') }}">
                    <input type="submit" class="btn btn-
success mr-3" value="Start Camera">
                </form>
            </div>
            <div class="col">
                <form method="POST" action="{{
url_for('stop_camera') }}">
                    <input type="submit" class="btn btn-
danger" value="Stop Camera">
                </form>
            </div>
        </div>
    </div>
<!-- End Sales Card -->

</div>
</div>
<!-- End Left side columns -->

</div>
</section>

</main>
<!-- End #main -->

<!-- ===== Footer ===== -->
<footer id="footer" class="footer">
    <div class="copyright">
        &copy; Copyright <strong><span>Muhammad
Edwin</span></strong>
        >. All Rights Reserved
    </div>
    <div class="credits">
    </div>
</footer>
<!-- End Footer -->

<a
    href="#"
    class="back-to-top d-flex align-items-center justify-
content-center"
    ><i class="bi bi-arrow-up-short"></i
></a>

<!-- Vendor JS Files -->
<script
src="assets/vendor/apexcharts/apexcharts.min.js"></script>

```

```

    <script
src="assets/vendor/bootstrap/js/bootstrap.bundle.min.js"></script>
    <script src="assets/vendor/chart.js/chart.umd.js"></script>
    <script src="assets/vendor/echarts/echarts.min.js"></script>
    <script src="assets/vendor/quill/quill.min.js"></script>
    <script src="assets/vendor/simple-datatables/simple-
datatables.js"></script>
    <script src="assets/vendor/tinymce/tinymce.min.js"></script>
    <script src="assets/vendor/php-email-
form/validate.js"></script>

    <!-- Template Main JS File -->
    <script src="assets/js/main.js"></script>

<script>
    var clockElement = document.getElementById("clock");
    var dateElement = document.getElementById("date");

    function updateClock() {
        var now = new Date();
        var timeString = now.toString().slice(15, 24);

        clockElement.textContent = timeString;
    }

    function updateDate() {
        var now = new Date();
        var dateString = now.toLocaleDateString(); // Mendapatkan
tanggal, bulan, dan tahun

        dateElement.textContent = dateString;
    }

    function updateClockAndDate() {
        updateClock();
        updateDate();
    }

    setInterval(updateClockAndDate, 1000);
    updateClockAndDate();
</script>
</body>
</html>

```

KARTU MONITORING BIMBINGAN
 MAHASISWA PROGRAM STUDI TEKNIK INFORMATIKA
 FAKULTAS TEKNIK
 UNIVERSITAS MUHAMMADIYAH PAREPARE

SKRIPSI

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Judul Skripsi : Aplikasi Pengaman Kandang Berbasis Android	

ARAHAN PEMBIMBING I	HARI/TGL & PARAF PEMBIMBING	ARAHAN PEMBIMBING II	HARI/TGL & PARAF PEMBIMBING
Desain Ritel		Konsultasi 1 Jarak Sensor dgn Objek.	
Analisis kebutuhan		Konsultasi 2 Penulisan dokumen sesuai dgn pedoman.	
Logika Alir		Konsultasi 3	
Uji		Konsultasi 4 ACC Ujian	
Seminar Ujian		Konsultasi 5	

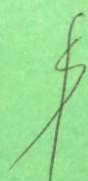
Lanjut ke halaman sebelah...

Wajib konsultasi minimal 5 kali
 Harus dibawa oleh mahasiswa disetiap konsultasi dan diisi oleh Pembimbing
 Harus dilampirkan pada laporan skripsi dan menjadi salah satu persyaratan untuk ikut seminar proposal/ujian skripsi
 Harus tak di atas kertas karton berwarna hijau muda dan dicetak timbal balik

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AN PEMBIMBING I	HARI/TGL & PARAF PEMBIMBING	ARAHAN PEMBIMBING II	HARI/TGL & PARAF PEMBIMBING
an notifikasi alat		Konsultasi 1 Tempat penelitian diperbaiki	
ex dan Blackbox		Konsultasi 2 -Lampirkan uji coba aplikasi -Uji coba jaringan.	
		Konsultasi 3 ACC	
Semua uji		Konsultasi 4 ACC ylor	
		Konsultasi 5	

Lanjut ke halaman sebelah...

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 ib dibawa oleh mahasiswa disetiap konsultasi dan diisi oleh Pembimbing
 ib dilampirkan pada laporan skripsi dan menjadi salah satu persyaratan untuk ikut seminar proposal/ujian skripsi
 etak di atas kertas karton berwarna hijau muda dan dicetak timbal balik