

LAMPIRAN

Lampiran 1 Surat Kesiediaan Membimbing TA Pembimbing 1

SURAT KETERSEDIAAN MEMBIMBING TUGAS AKHIR

Yang bertanda tangan di bawah ini:

Nama : Ida Afriliana, S.T,M.Kom
NIPY : 12.013.168
Jabatan Struktural : KA. Prodi DIII Teknik Komputer
Jabatan Fungsional : Lektor

Dengan ini menyatakan bersedia untuk menjadi pembimbing I pada Tugas Akhir mahasiswa berikut:

Nama : Rama Akhmad Dhani
NIM : 22040093
Program Studi : Diploma III Teknik Komputer

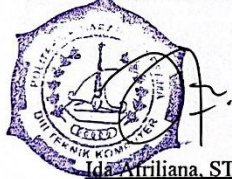
Judul TA : PENGEMBANGAN SISTEM MONITORING PADA
TEMPAT SAMPAH PINTAR BERBASIS WEBSITE

Dengan ini menyatakan ini dibuat agar dilaksanakan sebagaimana mestinya

Tegal, 6 Februari 2025

Mengetahui

Ka Prodi DIII Teknik Komputer,



Ida Afriliana, ST. M. Kom
NIPY. 12.013.168

Dosen Pembimbing I,

Ida Afriliana, ST. M. Kom
NIPY. 12.013.168

Lampiran 2 Surat Kesiediaan Membimbing TA Pembimbing 2

SURAT KETERSEDIAAN MEMBIMBING TUGAS AKHIR

Yang bertanda tangan di bawah ini:

Nama : Abdul Basit, S.Kom, M.T
NIPY : 01.015.198
Jabatan Struktural : Sekretaris Prodi DIII Teknik Komputer
Jabatan Fungsional : Lektor

Dengan ini menyatakan bersedia untuk menjadi pembimbing II pada Tugas Akhir mahasiswa berikut:

Nama : Rama Akhmad Dhani
NIM : 22040093
Program Studi : Diploma III Teknik Komputer

Judul TA : PENGEMBANGAN SISTEM MONITORING PADA
TEMPAT SAMPAH PINTAR BERBASIS WEBSITE

Dengan ini menyatakan ini dibuat agar dilaksanakan sebagaimana mestinya

Tegal, 5 Februari 2025

Mengetahui

Ka Prodi DIII Teknik Komputer,

Dosen Pembimbing II,

Ida Afriliana, ST, M.Kom
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Abdul Basit, S.Kom, M.T
NIPY. 01.015.198

Lampiran 3 ACC Proposal

Lampiran 22 Bimbingan
Proposal TA

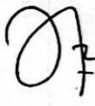
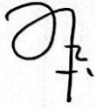
IK P2M PHB d.5.1.e.1

NAMA MAHASISWA: Rama Achmad Dhani

PEMBIMBING I:

BIMBINGAN

PROPOSAL TA

No	HARI/ TANGGAL	URAIAN	TANDA TANGAN
1.	30/12/2024	- Pada awal judul ditambahkan "Pengembangan" - objek lebih mengerucut yaitu pada kampus Politeknik Harapan Bersama	
2.	19/3/2025	- Edit kalimat pada latar belakang - kata asing gunakan italic	
3.	9/4/2025	- caption untuk tabel dan gambar - point-point menggunakan huruf / angka	
4.	11/4/2025	Acc proposal.	

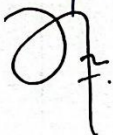
Lampiran 4 Bimbingan Pembimbing 1

Lampiran 23
Bimbingan Laporan Pembimbing I dan II TA

IK	P2M	PHB	d5.1.e.1
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PEMBIMBING I: Ida Afriliana S.T, M.kom

BIMBINGAN LAPORAN TA

No	HARI/ TANGGAL	URAIAN	TANDA TANGAN
1.	15/04/2025	-Revisi Bab I, II, III	
2.	17/04/2025	ACC Bab I, II, III	

Lampiran 5 Bimbingan Pembimbing 2

PEMBIMBING II: Abdul Basit S.kom, M.T

BIMBINGAN LAPORAN TA

No	HARI/ TANGGAL	URAIAN	TANDA TANGAN
	18/04/25	Tambahkan modul Lora	
	21/04/25	Ada 3 LORA 1 Gateway 2 node (pengirim)	
Uraian Hasil rapat 1 April 2025 			

Lampiran 6 *Dashboard.php*

```
<?php
session_start();

if (!isset($_SESSION['username']) || $_SESSION['role'] !== 'admin') {
    header("Location: login.php");
    exit();
}
include 'koneksi.php';

function getLatestData($koneksi, $gedung)
{
    $stmt = mysqli_prepare($koneksi, "SELECT * FROM data WHERE nama_tempat = ?
ORDER BY id DESC LIMIT 1");
    mysqli_stmt_bind_param($stmt, "s", $gedung);
    mysqli_stmt_execute($stmt);
    $result = mysqli_stmt_get_result($stmt);
    return mysqli_fetch_assoc($result);
}

$dataA = getLatestData($koneksi, 'Gedung A');
$dataB = getLatestData($koneksi, 'Gedung B');

// Tentukan kelas warna berdasarkan status
function getStatusColor($status)
{
    switch (strtolower($status)) {
        case 'penuh':
            return 'bg-red-500';
        case 'sedang':
            return 'bg-yellow-500';
        case 'aman':
            return 'bg-green-500';
        default:
            return 'bg-gray-500';
    }
}

$statusColorA = getStatusColor($dataA['status']);
$statusColorB = getStatusColor($dataB['status']);

$notifications = [];
```

```

if ($dataA['status'] === 'Penuh') {
    $notifications[] = $dataA['nama_tempat'] . " telah penuh!";
}

if ($dataB['status'] === 'Penuh') {
    $notifications[] = $dataB['nama_tempat'] . " telah penuh!";
}
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="utf-8" />
    <meta content="width=device-width, initial-scale=1.0" name="viewport" />
    <title>Dashboard Admin</title>
    <link href="https://cdnjs.cloudflare.com/ajax/libs/bootstrap/5.3.0/css/bootstrap.min.css"
rel="stylesheet" />
    <script src="https://cdn.tailwindcss.com"></script>
    <link href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.15.3/css/all.min.css"
rel="stylesheet" />
    <style>
        .card {
            transition: transform 0.2s, box-shadow 0.2s;
        }

        .card:hover {
            transform: translateY(-10px);
            box-shadow: 0 10px 20px rgba(0, 0, 0, 0.2);
        }

        .sidebar {
            transition: transform 0.2s, box-shadow 0.2s;
            height: 100vh;
        }

        .sidebar:hover {
            transform: translateX(-10px);
            box-shadow: 10px 0 20px rgba(0, 0, 0, 0.2);
        }

        .notif {
            position: fixed;

```



```

    top: 20px;
    right: 20px;
    z-index: 1000;
    animation: fadeOut 0.5s ease-out 7s forwards;
  }

  @keyframes fadeOut {
    to {
      opacity: 0;
      visibility: hidden;
    }
  }

  .logout-btn {
    margin-top: auto;
    background-color: #f56565;
    transition: background-color 0.3s ease;
  }

  .logout-btn:hover {
    background-color: #e53e3e;
  }
</style>
</head>

<body class="bg-gray-100">
  <div class="flex flex-col min-h-screen">
    <!-- Overlay -->
    <div id="overlay" class="fixed inset-0 bg-black bg-opacity-50 z-40 hidden"
onClick="toggleSidebar()"></div>

    <!-- Sidebar -->
    <div id="sidebar" class="bg-gray-900 text-white w-64 h-screen fixed top-0 left-0 z-50
transform -translate-x-full md:translate-x-0 transition-transform duration-300 ease-in-out flex
flex-col">
      <div class="flex items-center justify-between px-4 py-3 bg-blue-600">
        <div class="flex items-center gap-3">
          
          <span class="font-semibold">Welcome, <?= $_SESSION['username'] ?? 'Guest';
?></span>
        </div>

```

```

        <button class="md:hidden text-white" onclick="toggleSidebar()">
            <i class="fas fa-times"></i>
        </button>
    </div>
    <nav class="mt-6">
        <a class="flex items-center py-2 px-6 bg-gray-800 text-white shadow-md"
href="dashboard.php">
            <i class="fas fa-home mr-3"></i> Dashboard
        </a>
        <a class="flex items-center py-2 px-6 hover:bg-gray-700" href="user.php">
            <i class="fas fa-user mr-3"></i> User
        </a>
    </nav>
    <div class="mt-auto px-6 pb-4">
        <a class="flex items-center py-2 px-6 bg-red-500 hover:bg-red-600 text-white
rounded shadow-md" href="logout.php" onclick="return confirmLogout();">
            <i class="fas fa-sign-out-alt mr-3"></i> Logout
        </a>
    </div>
</div>

<!-- Main content -->
<div class="flex-1 md:ml-64">
    <!-- Header -->
    <header class="bg-blue-600 text-white h-16 flex items-center justify-between px-6
shadow-md">
        <button class="md:hidden flex flex-col gap-1.5 w-8 h-6 justify-center items-center
z-50" onclick="toggleSidebar()">
            <span class="w-6 h-0.5 bg-white"></span>
            <span class="w-6 h-0.5 bg-white"></span>
            <span class="w-6 h-0.5 bg-white"></span>
            <span id="close-icon" class="hidden w-6 h-0.5 bg-white rotate-45
transform"></span>
            <span id="close-icon2" class="hidden w-6 h-0.5 bg-white -rotate-45
transform"></span>
        </button>
        <h1 class="text-xl font-bold">Magic Trash Bin's</h1>
        <div class="relative">
            <i class="fas fa-bell text-2xl hover:text-yellow-300 cursor-pointer"
onclick="toggleNotif()" id="notif-icon"></i>
            <?php if (count($notifications) > 0): ?>

```

```

        <span class="absolute -top-1 -right-1 bg-red-500 text-white text-xs px-1.5
rounded-full">
            <?= count($notifications); ?>
        </span>
        <div id="notif-dropdown" class="absolute right-0 mt-2 w-64 bg-white text-
black border border-gray-200 rounded shadow-lg z-50 hidden">
            <?php foreach ($notifications as $notif): ?>
                <div class="px-4 py-2 border-b border-gray-200 hover:bg-red-100">
                    <i class="fas fa-exclamation-circle text-red-500 mr-2"></i> <?=
$notif; ?>
                </div>
            <?php endforeach; ?>
        </div>
    </div>
</header>

<!-- Content and Footer (Lanjutkan dengan konten Anda di sini) -->
<!-- ... -->

<div class="relative bg-white shadow-md px-6 py-4 text-gray-700 flex flex-col
md:flex-row md:items-center md:justify-center gap-3 text-center">
    <div class="md:absolut md:left-6 flex justify-center md:justify-start mb-2 md:mb-
0">
        
    </div>
    <div class="text-center text-2xl font-semibold">
        <span id="hariTanggal"></span> | <span id="jam"></span>
    </div>
    <div class="md:absolut md:right-6 flex justify-center md:justify-end mt-2 md:mt-
0">
        <button onclick="window.open('export_pdf.php', '_blank')" class="bg-blue-600
text-white px-4 py-2 rounded hover:bg-blue-700">
            <i class="fas fa-file-pdf mr-1"></i> Export PDF
        </button>
    </div>
</div>

<?php if (!empty($notifications)) : ?>
    <?php foreach ($notifications as $notif) : ?>
        <div class="p-4 mb-4 text-sm text-red-700 bg-red-100 rounded-lg notif shadow"
role="alert">
            <strong>Peringatan!</strong> <?= $notif; ?>
        </div>
    </div>

```

```

        <?php endforeach; ?>
    <?php endif; ?>

    <?php if (isset($_SESSION['notif'])) : ?>
        <div class="p-4 mb-4 text-sm text-green-700 bg-green-100 rounded-lg notif"
role="alert">
            <strong>Success!</strong> <?= $_SESSION['notif']; ?>
        </div>
        <?php unset($_SESSION['notif']); ?>
    <?php endif; ?>

    <main class="p-6">
        <?php if (!empty($notifications)) : ?>
            <div class="bg-yellow-100 border-l-4 border-yellow-500 text-yellow-700 p-4
mb-6 flex items-center gap-2 shadow rounded">
                <i class="fas fa-exclamation-circle text-yellow-600 text-xl"></i>
                <span><strong>Warning!</strong> <?= implode(" ", $notifications);
?></span>
            </div>
        <?php endif; ?>

        <div class="text-center text-xl font-semibold mb-4" id="tanggal-waktu">
            <span id="hariTanggal"></span>, <span id="jam"></span>
        </div>

        <div class="grid grid-cols-1 md:grid-cols-2 gap-6">
            <div class="bg-white p-6 rounded-lg shadow-md border">
                <h2 class="text-xl font-bold mb-4">Gedung A</h2>
            </div>
        </div>
    </main>

```

```

        <div class="grid grid-cols-2 gap-4 text-center">
            <div>
                <div class="text-gray-700 font-semibold mb-1">Ketinggian</div>
                <div class="bg-blue-500 text-white px-4 py-1 rounded-full text-lg"
id="ketinggian-a"><?= $dataA['ketinggian']; ?> cm</div>
            </div>
            <div>
                <div class="text-gray-700 font-semibold mb-1">Status</div>
                <div class="<?= $statusColorA; ?> text-white px-4 py-1 rounded-full
text-lg" id="status-a"><?= $dataA['status']; ?></div>
            </div>
        </div>
    </div>

    <div class="bg-white p-6 rounded-lg shadow-md border">
        <h2 class="text-xl font-bold mb-4">Gedung B</h2>
        <div class="grid grid-cols-2 gap-4 text-center">
            <div>
                <div class="text-gray-700 font-semibold mb-1">Ketinggian</div>
                <div class="bg-blue-500 text-white px-4 py-1 rounded-full text-lg"
id="ketinggian-b"><?= $dataB['ketinggian']; ?> cm</div>
            </div>
            <div>
                <div class="text-gray-700 font-semibold mb-1">Status</div>
                <div class="<?= $statusColorB; ?> text-white px-4 py-1 rounded-full
text-lg" id="status-b"><?= $dataB['status']; ?></div>
            </div>
        </div>
    </div>
</div>
</main>
</div>

```



```

</div>

<!-- Sticky Footer -->
<footer class="bg-white text-center p-4 mt-auto shadow-inner">
  <p>Copyright © 2025. Monitoring Smart Trash Bin. All rights reserved.</p>
</footer>
</div>

<script>
  function updateWaktu() {
    const now = new Date();
    const hariTanggal = now.toLocaleDateString("id-ID", {
      weekday: "long",
      day: "2-digit",
      month: "long",
      year: "numeric"
    });
    const jam = now.toLocaleTimeString("id-ID", {
      hour: "2-digit",
      minute: "2-digit",
      second: "2-digit"
    });
    document.getElementById("hariTanggal").textContent = hariTanggal;
    document.getElementById("jam").textContent = jam;
  }
  updateWaktu();
  setInterval(updateWaktu, 1000);

  let lastStatusA = null;
  let lastStatusB = null;

  function toggleSidebar() {
    const sidebar = document.getElementById('sidebar');
    const overlay = document.getElementById('overlay');
    const hamburgerIcons = document.querySelectorAll('#hamburger-icon, #hamburger-icon2, #hamburger-icon3');
    const closeIcons = document.querySelectorAll('#close-icon, #close-icon2');

    // Toggle sidebar
    if (sidebar.classList.contains('-translate-x-full')) {
      sidebar.classList.remove('-translate-x-full');
      overlay.classList.remove('hidden');
    }

    // Hide Hamburger Icons, Show Close Icons

```

```

        hamburgerIcons.forEach(icon => icon.classList.add('hidden'));
        closeIcons.forEach(icon => icon.classList.remove('hidden'));
    } else {
        sidebar.classList.add('-translate-x-full');
        overlay.classList.add('hidden');

        // Show Hamburger Icons, Hide Close Icons
        hamburgerIcons.forEach(icon => icon.classList.remove('hidden'));
        closeIcons.forEach(icon => icon.classList.add('hidden'));
    }
}

// Menutup sidebar ketika overlay diklik
document.getElementById('overlay').addEventListener('click', toggleSidebar);

function toggleNotif() {
    const dropdown = document.getElementById('notif-dropdown');
    dropdown.classList.toggle('hidden');
}

// Tutup dropdown jika klik di luar area notifikasi
document.addEventListener('click', function(event) {
    const notifIcon = document.getElementById('notif-icon');
    const dropdown = document.getElementById('notif-dropdown');

    if (!notifIcon.contains(event.target) && !dropdown.contains(event.target)) {
        dropdown.classList.add('hidden');
    }
});

function animateUpdate(el, newValue, newClass = null) {

```

```

const current = el.textContent.trim();
if (current !== newValue) {
  el.classList.add("bg-yellow-200", "transition", "duration-300");
  el.textContent = newValue;

  if (newClass) {
    el.classList.remove("bg-green-500", "bg-red-500", "bg-yellow-500");
    el.classList.add(newClass);
  }

  setTimeout(() => {
    el.classList.remove("bg-yellow-200");
  }, 800);
}
}

function updateGedungA() {
  fetch('get_data.php?gedung=Gedung A')
    .then(response => response.json())
    .then(data => {
      const ketinggianA = document.getElementById('ketinggian-a');
      const statusA = document.getElementById('status-a');
      animateUpdate(ketinggianA, data.ketinggian + " cm");
      animateUpdate(statusA, data.status, data.statusColor);

      if (data.status === 'Penuh' && lastStatusA !== 'Penuh') {
        showToast("Gedung A telah penuh!");
      }
      lastStatusA = data.status;
    });
}

function updateGedungB() {
  fetch('get_data.php?gedung=Gedung B')
    .then(response => response.json())
    .then(data => {
      const ketinggianB = document.getElementById('ketinggian-b');
      const statusB = document.getElementById('status-b');
      animateUpdate(ketinggianB, data.ketinggian + " cm");
      animateUpdate(statusB, data.status, data.statusColor);

      if (data.status === 'Penuh' && lastStatusB !== 'Penuh') {
        showToast("Gedung B telah penuh!");
      }
    });
}

```

```

        lastStatusB = data.status;
    });
}

setInterval(() => {
    updateGedungA();
    updateGedungB();
}, 5000);

function showToast(message) {
    const toast = document.createElement('div');
    toast.className = "fixed bottom-4 right-4 bg-red-600 text-white px-4 py-3 rounded
shadow z-50 animate-bounce";
    toast.textContent = message;
    document.body.appendChild(toast);

    setTimeout(() => toast.remove(), 4000);
}
</script>
</body>
</html>

```

Lampiran 7 Dokumentasi

