



LAMPIRAN

Surat Permohonan Izin Penelitian

	FAKULTAS SAINS DAN TEKNOLOGI UNIVERSITAS LABUHANBATU PROGRAM STUDI : AGROTEKNOLOGI - TEKNOLOGI INFORMASI - SISTEM INFORMASI - MANAJEMEN INFORMATIKA Jl. SM. Raja No. 126-A KM. 3,5 Aek Tapa - Rantauprapat - Sumatera Utara - Pos 21415 Telp./Fax. (0624) 21901
Nomor	: 10/TV/FST-ULB/II/2026
Hal	: Permohonan Izin Penelitian
Kepada Yth. Ibu Dievy Chairany di - Tempat	
Schubung dengan rencana Penelitian untuk Skripsi/Tugas Akhir Mahasiswa Program Studi S-1 Teknologi Informasi Fakultas Sains dan Teknologi tersebut dibawah ini :	
Nama	: EVAN ACHMADIKA
NPM	: 2208100021
Program Studi	: T-1 Teknologi Informasi
Judul Tugas Akhir	: RANCANG BANGUN WEB BROADCAST WHATSHAPP PADA PT. INFOMEDIA NUSANTARA TERINTEGRASI API (Application Programming Interface)
Lokasi Penelitian	: PT. INFOMEDIA NUSANTARA
Untuk keperluan tersebut diatas, agar kiranya dapat memberi izin pelaksanaan penelitian di wilayah Bapak/Ibu. Dalam proses pelaksanaanya segala sesuatu yang berkaitan dengan penelitian tersebut akan diselesaikan oleh mahasiswa yang bersangkutan.	
Demikian hal ini kami sampaikan atas perhatian dan bantuannya diucapkan terima kasih.	
Rantauprapat, 11 Februari 2026 Fakultas Sains dan Teknologi Program Studi Teknologi Informasi	
 Rani Pane, S.Kom, M.Kom NIDN. 0110058601	

Surat Balasan Izian Penelitian



Nomor : /ST/INF-ULB/LAB/[004]/[08042026]

Perihal: Tanggapan atas Permohonan Izin Penelitian.

Yth.

**UPT Kaprodi Teknologi Informasi
UNIVERSITAS LABUHAN BATU**

Dengan hormat,

Menindaklanjuti Surat Permohonan Penelitian untuk Skripsi/Tugas Akhir Mahasiswa Program Studi S-1 Teknologi Informasi Fakultas Sains dan Teknologi dari UNIVERSITAS LABUHAN BATU (ULB) yang ditujukan kepada PT. Infomedia Nusantara, dengan ini kami sampaikan bahwa kami menyetujui permohonan tersebut bagi mahasiswa yang tercantum dalam surat tersebut.

Nama : EVAN ACHMADIKA
NPM : 2208100021
Program Studi : T-1 Teknologi Informasi
Judul Tugas Akhir : RANCANGAN BANGUN WEB BROADCAST WHATSAPP
PADA PT. INFOMEDIA NUSANTARA TERINTEGRASI
API (Application Programming Interface)
Lokasi Penelitian : PT. INFOMEDIA NUSANTARA

Kami berharap pelaksanaan penelitian yang dilakukan oleh mahasiswa Universitas Labuhan Batu di lingkungan PT Infomedia Nusantara dapat berjalan dengan lancar serta memberikan manfaat bagi pengembangan ilmu pengetahuan, khususnya di bidang Teknologi Informasi, serta memberikan kontribusi positif bagi kedua belah pihak.

Demikian surat balasan ini kami sampaikan. Atas perhatian dan kerja samanya, kami ucapkan terima kasih.

Mengetahui,

MUHAMMAD ILHAMSYAH

infomedia

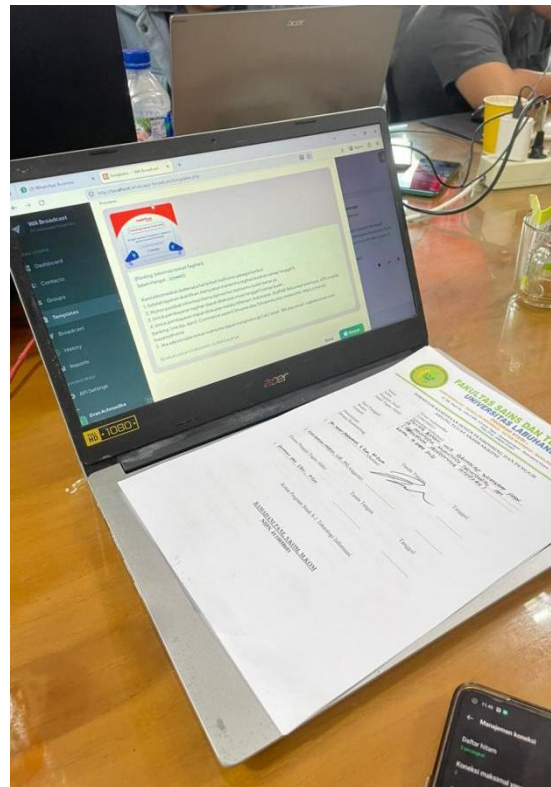
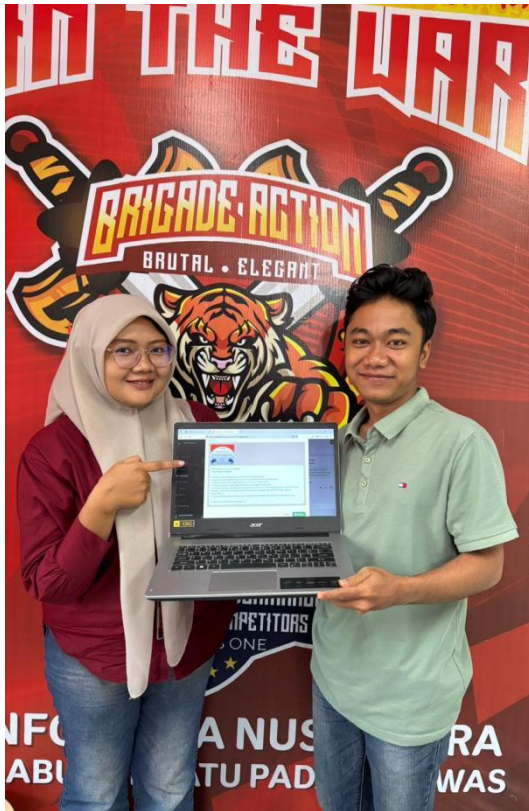
QM WOK Labuhan Batu Padang Lawas
PT. INFOMEDIA NUSANTARA

DIEVY CHAIRANY

infomedia

CEM WOK Labuhan Batu Padang Lawas
PT. INFOMEDIA NUSANTARA

Dokumentasi Penelitian



Codingan Yang digunakan

```
<?php
date_default_timezone_set('Asia/Jakarta');
session_start();
require_once 'includes/auth.php';
requireLogin();

require_once 'includes/db.php';
$db = getDB();

// --- Stats ---
function countTable(mysqli $db, string $table, string $where = ""): int {
    $sql = "SELECT COUNT(*) AS n FROM $table" . ($where ? " WHERE $where" : "");
    return (int)$db->query($sql)->fetch_assoc()['n'];
}

$totalContacts = countTable($db, 'contacts');
$activeContacts = countTable($db, 'contacts', "status='active'");
$totalGroups = countTable($db, 'contact_groups');
$totalTemplates = countTable($db, 'message_templates');
$totalBroadcasts = countTable($db, 'broadcast_campaigns');
$sentBroadcasts = countTable($db, 'broadcast_campaigns', "status='completed'");
$pendingBroadcasts = countTable($db, 'broadcast_campaigns', "status IN ('draft','scheduled')");

// Total pesan terkirim
$res = $db->query("SELECT COUNT(*) AS n FROM broadcast_recipients WHERE send_status IN ('sent','delivered','read')");
$totalSent = (int)$res->fetch_assoc()['n'];

// --- Recent Broadcasts ---
$recentBroadcasts = $db->query("
    SELECT bc.*, u.username AS creator_name, mt.name AS template_name
    FROM broadcast_campaigns bc
    LEFT JOIN users u ON bc.creator_id = u.user_id
    LEFT JOIN message_templates mt ON bc.message_template_id =
mt.template_id
    ORDER BY bc.created_at DESC
    LIMIT 5
");

// --- Recent Contacts ---
$recentContacts = $db->query("
    SELECT * FROM contacts ORDER BY created_at DESC LIMIT 5
");
```

```

// --- Chart data: broadcast per hari 7 hari terakhir ---
$chartData = [];
for ($i = 6; $i >= 0; $i--) {
    $date = date('Y-m-d', strtotime("-$i days"));
    $label = date('d M', strtotime("-$i days"));
    $res2 = $db->query("SELECT COUNT(*) AS n FROM broadcast_campaigns
WHERE DATE(created_at)='$date'");
    $chartData[] = ['label' => $label, 'value' => (int)$res2->fetch_assoc()['n']];
}

$pageTitle = 'Dashboard';
$currentPage = 'dashboard';
?>
<!DOCTYPE html>
<html lang="id">
<head>
<meta charset="UTF-8"/>
<meta name="viewport" content="width=device-width,initial-scale=1"/>
<title>Dashboard — WA Broadcast</title>
<link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"/>
<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-
icons@1.11.3/font/bootstrap-icons.css"/>
<link rel="stylesheet" href="assets/css/app.css"/>
<script
src="https://cdn.jsdelivr.net/npm/chart.js@4.4.3/dist/chart.umd.min.js"></script>
</head>
<body>

<?php include 'includes/sidebar.php'; ?>

<div class="wa-main">
<?php include 'includes/topbar.php'; ?>

<!-- ===== STAT CARDS ===== -->
<div class="row g-3 mb-4">

<div class="col-6 col-xl-3">
<div class="stat-card" style="color:#25D366">
<div class="stat-icon" style="background:#f0fdf4; color:#25D366">
<i class="bi bi-people-fill"></i>
</div>
<div class="stat-body">
<div class="stat-value"><?= number_format($totalContacts) ?></div>
<div class="stat-label">Total Kontak</div>
<span class="stat-badge up"><i class="bi bi-arrow-up-short"></i><?=
$activeContacts ?> aktif</span>

```

```

    </div>
  </div>
</div>

<div class="col-6 col-xl-3">
  <div class="stat-card" style="color:#3b82f6">
    <div class="stat-icon" style="background:#fff6ff; color:#3b82f6">
      <i class="bi bi-collection-fill"></i>
    </div>
    <div class="stat-body">
      <div class="stat-value"><?= number_format($totalGroups) ?></div>
      <div class="stat-label">Total Grup</div>
      <span class="stat-badge neutral"><i class="bi bi-dot"></i>Grup
aktif</span>
    </div>
  </div>
</div>

<div class="col-6 col-xl-3">
  <div class="stat-card" style="color:#f97316">
    <div class="stat-icon" style="background:#fff7ed; color:#f97316">
      <i class="bi bi-send-fill"></i>
    </div>
    <div class="stat-body">
      <div class="stat-value"><?= number_format($totalBroadcasts) ?></div>
      <div class="stat-label">Total Broadcast</div>
      <span class="stat-badge up"><i class="bi bi-check-circle"></i><?=
$sentBroadcasts ?> selesai</span>
    </div>
  </div>
</div>

<div class="col-6 col-xl-3">
  <div class="stat-card" style="color:#8b5cf6">
    <div class="stat-icon" style="background:#f5f3ff; color:#8b5cf6">
      <i class="bi bi-chat-dots-fill"></i>
    </div>
    <div class="stat-body">
      <div class="stat-value"><?= number_format($totalSent) ?></div>
      <div class="stat-label">Pesan Terkirim</div>
      <span class="stat-badge neutral"><i class="bi bi-clock"></i><?=
$pendingBroadcasts ?> pending</span>
    </div>
  </div>
</div>
</div>

```

```

<!-- ===== CHART + QUICK ACTIONS ===== -->
<div class="row g-3 mb-4">

  <!-- Chart -->
  <div class="col-lg-8">
    <div class="wa-card h-100">
      <div class="d-flex justify-content-between align-items-start mb-1">
        <div>
          <div class="wa-card-title">Aktivitas Broadcast</div>
          <div class="wa-card-sub">7 hari terakhir</div>
        </div>
        <span class="badge-status badge-active">Live</span>
      </div>
      <canvas id="broadcastChart" height="100"></canvas>
    </div>
  </div>

  <!-- Quick Actions -->
  <div class="col-lg-4">
    <div class="wa-card h-100">
      <div class="wa-card-title">Aksi Cepat</div>
      <div class="wa-card-sub">Pintasan menu utama</div>
      <div class="d-flex flex-column gap-2">
        <a href="broadcast.php" class="btn-wa btn-wa-primary w-100 justify-content-center">
          <i class="bi bi-send-fill"></i> Kirim Broadcast
        </a>
        <a href="contacts.php?action=add" class="btn-wa btn-wa-outline w-100 justify-content-center">
          <i class="bi bi-person-plus-fill"></i> Tambah Kontak
        </a>
        <a href="groups.php?action=add" class="btn-wa btn-wa-outline w-100 justify-content-center">
          <i class="bi bi-people-fill"></i> Buat Grup Baru
        </a>
        <a href="templates.php?action=add" class="btn-wa btn-wa-outline w-100 justify-content-center">
          <i class="bi bi-file-earmark-plus-fill"></i> Buat Template
        </a>
        <a href="reports.php" class="btn-wa btn-wa-outline w-100 justify-content-center">
          <i class="bi bi-bar-chart-fill"></i> Lihat Laporan
        </a>
      </div>
    </div>
  </div>
</div>

```

```

<!-- ===== RECENT TABLES ===== -->
<div class="row g-3">

  <!-- Recent Broadcasts -->
  <div class="col-lg-7">
    <div class="wa-card">
      <div class="d-flex justify-content-between align-items-center mb-3">
        <div>
          <div class="wa-card-title">Broadcast Terbaru</div>
          <div class="wa-card-sub" style="margin-bottom:0">5 kampanye
terakhir</div>
        </div>
        <a href="history.php" class="btn-wa btn-wa-outline btn-wa-sm">
          Lihat Semua <i class="bi bi-arrow-right"></i>
        </a>
      </div>
      <div class="table-responsive">
        <table class="wa-table">
          <thead>
            <tr>
              <th>Nama Kampanye</th>
              <th>Template</th>
              <th>Status</th>
              <th>Tanggal</th>
            </tr>
          </thead>
          <tbody>
            <?php if ($recentBroadcasts && $recentBroadcasts->num_rows > 0): ?>
              <?php while ($row = $recentBroadcasts->fetch_assoc()): ?>
                <?php

```