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LAMPIRAN

Lampiran 1 Listing Program

Akurasi.php

```
<div class="page-header">
<h1>Perhitungan Akurasi</h1>
</div>
<?php
$error = false;
if ($_POST) {
    $testing_persen = $_POST['testing_persen'];
    $jenis = $_POST['jenis'];
}
?>
<div class="card mb-3">
<div class="card-header">Pengaturan Training</div>
<div class="card-body">
<?php
if ($error) print_msg('Isikan semua atribut');
?>
<form class="form-horizontal" method="post">
<div class="form-group">
<label class="col-sm-3 control-label">Prosentase Testing</label>
<div class="col-sm-9">
<input class="form-control" type="number" min="10" max="100"
name="testing_persen" value="<?= set_value('testing_persen', 10) ?>" />
<p class="help-block">Masukkan prosentase testing dari 10 sampe 100</p>
</div>
</div>
```

```

<div class="form-group">
<label class="col-sm-3 control-label">Data Testing</label>
<div class="col-sm-9">
<select class="form-control" name="jenis">
<? = get_jenis_option($_POST['jenis']) ?>
</select>
</div>
</div>
<div class="form-group">
<label class="col-sm-3 control-label"></label>
<div class="col-sm-9">
<button class="btn btn-primary"><span class="fa fa-signal"></span>
Hitung</button>
</div>
</div>
</form>
</div>
</div>
<?php
if ($_POST && !$error)
include 'akurasi_hasil.php';

```

Func_nbc.php

```
<?php
```

```
/**
```

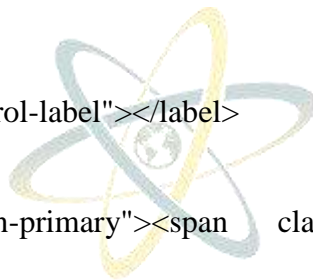
```
* @param array $analisa Data analisa
```

```
* @param array $pro_dicari Probabilitas data label
```

```
* @return array Total masing-masing label
```

```
*/
```

```
function get_total($analisa, $pro_dicari)
```



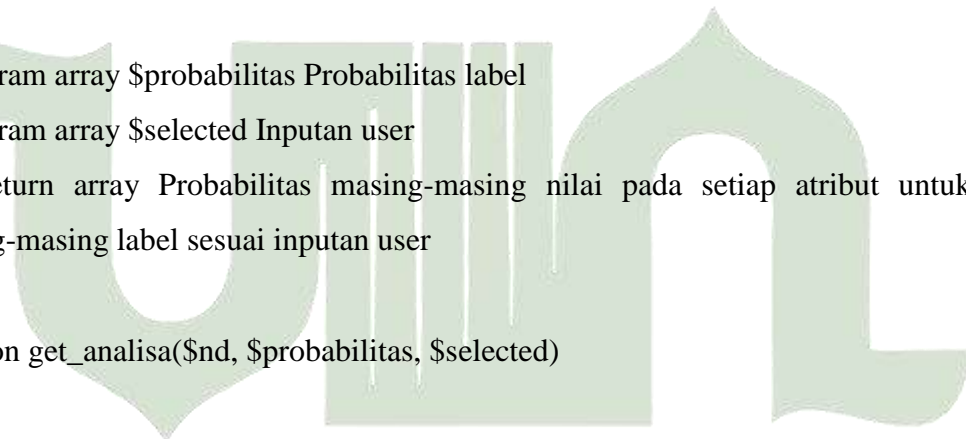
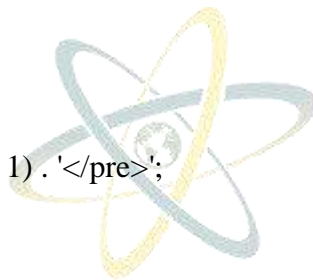
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```

{
$arr = array();
foreach ($analisa as $key => $val) {
//total awal diatur sesuai probabilitas label
$arr[$key] = $pro_dicari[$key];
foreach ($val as $k => $v) {
//mengalikan probabilitas masing-masing label dengan probabilitas analisa
if ($v) $arr[$key] *= $v;
}
}
// echo '<pre>' . print_r($arr, 1) . '</pre>';
return $arr;
}
/**
 * @param array $probabilitas Probabilitas label
 * @param array $selected Inputan user
 * @return array Probabilitas masing-masing nilai pada setiap atribut untuk
masing-masing label sesuai inputan user
 */
function get_analisa($nd, $probabilitas, $selected)
{
$arr = array();
if ($nd) {
foreach ($nd as $key => $val) {
foreach ($val as $k => $v) {
$arr[$key][$k] = $v;
}
}
}
if ($probabilitas) {
foreach ($probabilitas as $key => $val) {

```



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```

foreach ($val as $k => $v) {
    $arr[$key][$k] = $v[$selected[$k]];
}
}
}
// echo '<pre>' . print_r($selected, 1) . '</pre>';
return $arr;
}
/**
 * @param array $dataset Dataset
 * @param array $target Atribut target/klasifikasi/label
 * @return array Probabilitas masing-masing label
 */
function get_pro_dicari($dataset, $target)
{
    $arr = array();
    foreach ($dataset as $key => $val) {
        if (!isset($arr[$val[$target]]))
            $arr[$val[$target]] = 0;
        //menghitung total data untuk setiap label
        $arr[$val[$target]]++;
    }
    //menghitung total data
    $total = array_sum($arr);

    foreach ($arr as $key => $val) {
        //membagi total masing-masing label dengan total seluruh data
        $arr[$key] = $val / $total;
    }
    return $arr;
}

```



```

/**
 * @param array $dataset Dataset
 * @param array $target Atribut target/klasifikasi/label
 * @return array Probabilitas masing-masing nilai pada setiap atribut untuk
 masing-masing label
 */
function get_probabilitas($dataset, $target)
{
//mengakses variabel $NILAI dan $ATRIBUT
global $NILAI, $ATRIBUT, $ATRIBUT_NILAI;
$arr = array();

//mengambil atribut selain atribut target
$atribut_diketahui = $ATRIBUT;
unset($atribut_diketahui[$target]);

//memanggil get_pro_dicari berdasarkan $dataset dan $target
$pro_dicari = get_pro_dicari($dataset, $target);

//perulangan sebanyak jumlah label
foreach ($pro_dicari as $key => $val) {
//perulangan sebanyak nilai semua atribut
foreach ($NILAI as $k => $v) {
$atribut = $NILAI[$k]->id_atribut;
//jika bukan atribut target
if (in_array($atribut, array_keys($atribut_diketahui))) {
//isikan nilai sementara dengan 0
$arr[$key][$atribut][$k] = 0;
}
}
}
}

```

```

// echo '<pre>' . print_r($arr, 1) . '</pre>';
/**
 * mengisi $arr dengan nilai sesuai dataset
 */
foreach ($dataset as $key => $val) {
    foreach ($val as $k => $v) {
        if (in_array($k, array_keys($atribut_diketahui)) &&
            isset($ATRIBUT_NILAI[$k])) {
            $arr[$val[$target]][$k][$v]++;
        }
    }
}
// echo '<pre>' . print_r($arr, 1) . '</pre>';
/**
 * menghitung probabilitas (jumlah kemunculan / total data)
 */
$arr2 = array();
foreach ($arr as $key => $val) {
    foreach ($val as $k => $v) {
        foreach ($v as $a => $b) {
            $arr2[$key][$k][$a] = $b / array_sum($v);
        }
    }
}
return $arr2;
}

function bayes_normalize($dataset = array())
{
    global $ATRIBUT_NILAI, $TARGET;
    $arr = array();

```

```

foreach ($dataset as $key => $val) {
  foreach ($val as $k => $v) {
    if (!isset($ATRIBUT_NILAI[$k]) && $k != $TARGET) {
      $arr[$val[$TARGET]][$k] = $v;
    }
  }
}

```

```

return $arr;
}

```



```

function bayes_get_mean($normal = array())
{
  $result = array();
  foreach ($normal as $key => $val) {
    foreach ($val as $k => $v) {
      $result[$key][$k] = array_sum($v) / count($v);
    }
  }
  return $result;
}

```

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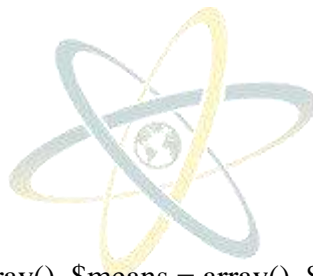
```

function bayes_get_deviasi($normal, $mean)
{
  $arr = array();
  foreach ($normal as $key => $val) {
    foreach ($val as $k => $v) {
      foreach ($v as $x) {
        $arr[$key][$k] = pow($x - $mean[$key][$k], 2);
      }
    }
  }
}

```

```
}  
}
```

```
$result = array();  
foreach ($arr as $key => $val) {  
    foreach ($val as $k => $v) {  
        $result[$key][$k] = sqrt(1 / (count($v) - 1) * array_sum($v));  
    }  
}
```



```
return $result;  
}  
function norm_dist($xs = array(), $means = array(), $deviasi = array())
```

```
{  
    $arr = array();  
    foreach ((array) $deviasi as $key => $val) {  
        foreach ($val as $k => $v) {  
            $x = $xs[$k];  
            $sd = $v;  
            $mean = $means[$key][$k];  
  
            if ($sd == 0)  
                $arr[$key][$k] = 0;  
            else  
                $arr[$key][$k] = 1 / (sqrt(2 * pi()) * $sd) * exp(-1 * (pow($x - $mean, 2) / (2 *  
                pow($sd, 2))));  
            //echo "1 / (sqrt(2 * pi()) * $sd) * exp( -1 * (pow($x - $mean, 2) / (2 * pow($sd,  
            2))))<br />";  
        }  
    }  
    return $arr;
```

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Hasil.php

```
<div class="page-header">
<h1>Hasil</h1>
</div>
<div class="card">
<div class="card-header">
<form class="form-inline">
<input type="hidden" name="m" value="hasil" />
<div class="form-group mr-1">
<input class="form-control" type="text" placeholder="Pencarian. . ." name="q"
value="<?=$_get('q') ?>" />
</div>
<div class="form-group mr-1">
<button class="btn btn-success"><span class="fa fa-sync"></span>
Refresh</button>
</div>
</form>
</div>
<div class="table-responsive">
<table class="table table-bordered table-hover table-striped m-0">
<thead>
<tr class="nw">
<th>Nomor</th>
<th>Nama</th>
<?php foreach ($ATRIBUT as $key => $val) : ?>
<th><?=$val->nama_atribut ?></th>
<?php endforeach ?>
<th>Aksi</th>
</tr>
</thead>
<?php
```

```

$q = esc_field(_get('q'));
$rows = $db->get_results("SELECT * FROM tb_hasil WHERE nomor LIKE
'%"$q%" OR nama LIKE '%"$q%" GROUP BY nomor");
$hasil = get_hasil();

```

```

foreach ($rows as $row) : ?>
<tr>
<td><?= $row->nomor ?></td>
<td><?= $hasil[$row->nomor]['nama'] ?></td>
<?php foreach ($hasil[$row->nomor]['nilai'] as $k => $v) : ?>
<td><?= isset($ATRIBUT_NILAI[$k]) ? (isset($NILAI[$v]->nama_nilai) ?
$NILAI[$v]->nama_nilai : ") : $v ?></td>
<?php endforeach ?>
<td class="nw">
<a class="btn btn-sm btn-danger" href="aksi.php?act=hasil_hapus&ID=<?=
$row->nomor ?>" onclick="return confirm('Hapus data?')"><span class="fa fa-
trash"></span></a>
</td>
</tr>
<?php endforeach; ?>
</table>
</div>
</div>

```

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Hitung.php

```

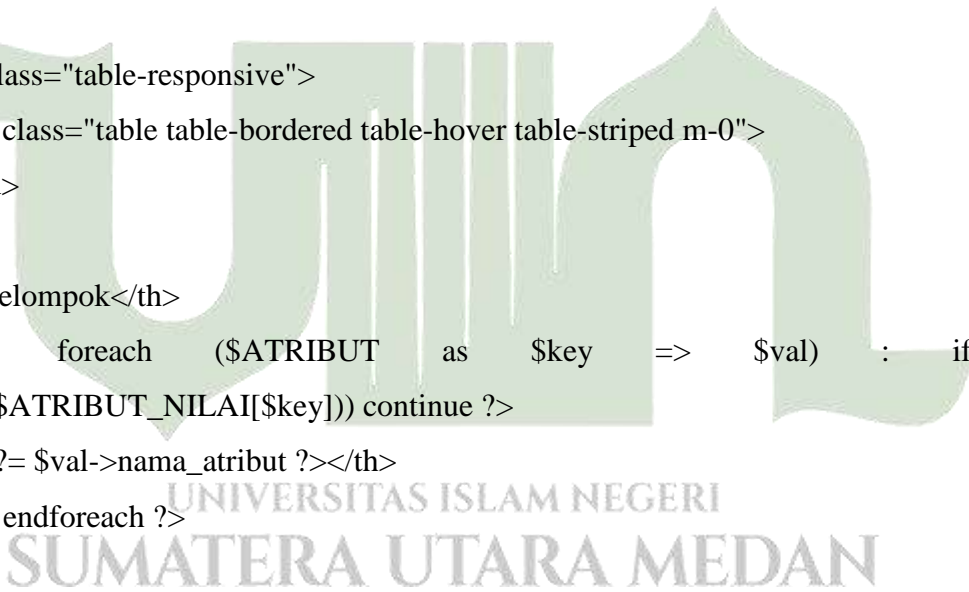
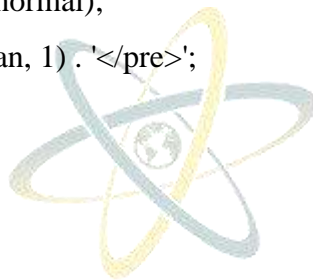
<div class="page-header">
<h1>Perhitungan Testing</h1>
</div>
<?php
$training = get_data_detail();
$nama_testing = get_testing();

```

```

$testing = get_testing_detail();
$target = $ATRIBUT[$TARGET];
?>
<?php
//memanggil fungsi bayes_normalize() di functions.php
$normal = bayes_normalize($straining);
//memanggil fungsi bayes_get_mean() di functions.php
$mean = bayes_get_mean($normal);
// echo '<pre>' . print_r($mean, 1) . '</pre>';
if ($mean) : ?>
<div class="card mb-3">
<div class="card-header">
<strong>Mean</strong>
</div>
<div class="table-responsive">
<table class="table table-bordered table-hover table-striped m-0">
<thead>
<tr>
<th>Kelompok</th>
<?php foreach ($ATRIBUT as $key => $val) : if
(isset($ATRIBUT_NILAI[$key])) continue ?>
<th><?= $val->nama_atribut ?></th>
<?php endforeach ?>
</tr>
</thead>
<tbody>
<tr>
<td><?= round($v, 4) ?></td>
<?php endforeach ?>

```




```

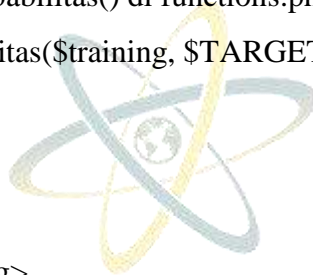
</tr>
<?php endforeach ?>
</table>
</div>
</div>
<?php
endif;
//memanggil fungsi bayes_get_deviasi() di functions.php
$deviasi = bayes_get_deviasi($normal, $mean);
if ($deviasi) : ?>
<div class="card mb-3">
<div class="card-header">
<strong>Deviasi</strong>
</div>
<div class="table-responsive">
<table class="table table-bordered table-hover table-striped m-0">
<thead>
<tr>
<th>Kelompok</th>
<?php foreach ($ATRIBUT as $key => $val) : if
(isset($NILAI[$key])) continue ?>
<th><?= $val->nama_atribut ?></th>
<?php endforeach ?>
</tr>
</thead>
<?php foreach ($deviasi as $key => $val) : ?>
<tr>
<td><?= $NILAI[$key]->nama_nilai ?></td>
<?php foreach ($val as $k => $v) : ?>
<td><?= round($v, 4) ?></td>
<?php endforeach ?>

```

```

</tr>
<?php endforeach ?>
</table>
</div>
</div>
<?php endif ?>
<?php
//memanggil fungsi get_probabilitas() di functions.php
$probabilitas = get_probabilitas($straining, $TARGET);
if ($probabilitas) : ?>
<div class="card mb-3">
<div class="card-header">
<strong>Probabilitas</strong>
</div>
<div class="table-responsive" style="font-size: smaller;">
<table class="table table-bordered table-hover table-striped m-0">
<thead class="nw">
<tr>
<th rowspan="2">Kelompok</th>
<?php foreach (current($probabilitas) as $key => $val) : ?>
<th class="text-center" colspan="<?= count($val) ?>"><?= $ATRIBUT[$key]-
>nama_atribut ?></th>
<?php endforeach ?>
</tr>
<tr>
<?php foreach (current($probabilitas) as $key => $val) : ?>
<?php foreach ($val as $k => $v) : ?>
<th><?= $NILAI[$k]->nama_nilai ?></th>
<?php endforeach ?>
<?php endforeach ?>
</tr>

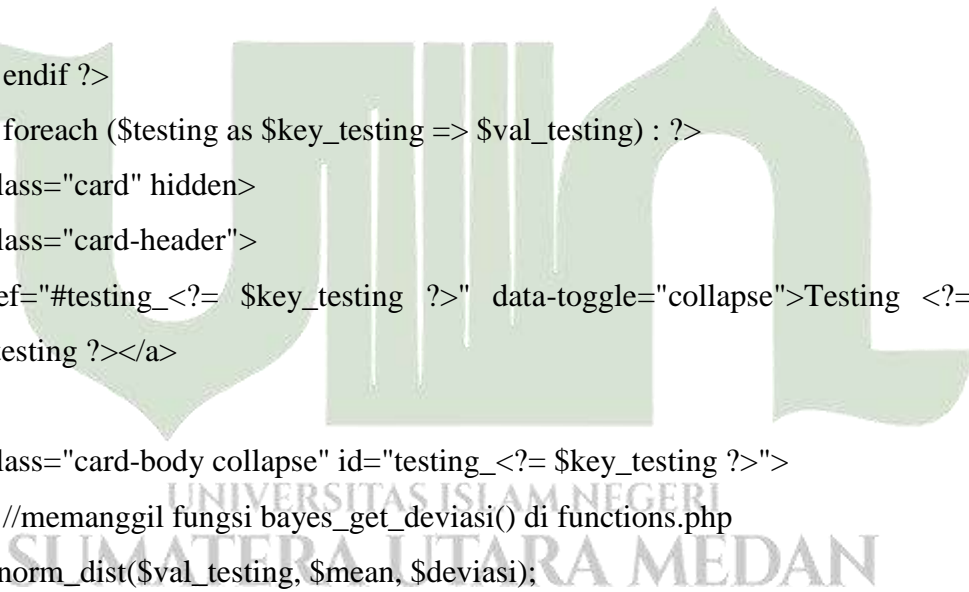
```



```

</thead>
<?php foreach ($probabilitas as $key => $val) : ?>
<tr>
<th><?= $NILAI[$key]->nama_nilai ?></th>
<?php foreach ($val as $k => $v) : ?>
<?php foreach ($v as $a => $b) : ?>
<td><?= round($b, 4) ?></td>
<?php endforeach ?>
<?php endforeach ?>
</tr>
<?php endforeach ?>
</table>
</div>
</div>
<?php endif ?>
<?php foreach ($testing as $key_testing => $val_testing) : ?>
<div class="card" hidden>
<div class="card-header">
<a href="#testing_<?= $key_testing ?>" data-toggle="collapse">Testing <?=
$key_testing ?></a>
</div>
<div class="card-body collapse" id="testing_<?= $key_testing ?>">
<?php //memanggil fungsi bayes_get_deviiasi() di functions.php
$nd = norm_dist($val_testing, $mean, $deviasi);
if ($nd) : ?>
<div class="card mb-3">
<div class="card-header">
<strong>Distribusi Normal</strong>
</div>
<div class="table-responsive">
<table class="table table-bordered table-hover table-striped m-0">

```



```

<thead>
<tr>
<th>Kelompok</th>
<?php foreach ($ATRIBUT as $key => $val) : if
(isset($ATRIBUT_NILAI[$key])) continue ?>
<th><?= $val->nama_atribut ?></th>
<?php endforeach ?>
</tr>
</thead>
<?php foreach ($nd as $key => $val) : ?>
<tr>
<td><?= $NILAI[$key]->nama_nilai ?></td>
<?php foreach ($val as $k => $v) : ?>
<td><?= round($v, 4) ?></td>
<?php endforeach ?>
</tr>
<?php endforeach ?>
</table>
</div>
</div>
<?php endif ?>
<?php
reset($nd);
reset($probabilitas);
//memanggil fungsi get_pro_dicari() di functions.php
$pro_dicari = get_pro_dicari($training, $TARGET);
//memanggil fungsi get_analisa() di functions.php
$analisa = get_analisa($nd, $probabilitas, $val_testing);
//memanggil fungsi get_total() di functions.php
$total = get_total($analisa, $pro_dicari);
?>

```

```

<div class="card mb-3">
<div class="card-header">
<strong>Hasil Analisa</strong>
</div>
<div class="table-responsive">
<table class="table table-bordered table-hover table-striped m-0 small">
<thead class="nw">
<tr>
<th>Kelompok</th>
<?php if ($nd) : ?>
<?php foreach ($ATRIBUT as $key => $val) : if ($key == $TARGET) continue
?>
<th>
<?= $val->nama_atribut ?>
<?php if (isset($ATRIBUT_NILAI[$key])) : ?>
(<?= $NILAI[$val_testing[$key]]->nama_nilai ?>)
<?php endif ?>
</th>
<?php endforeach ?>
<?php endif ?>
<th>Total</th>
</tr>
</thead>
<?php
SUMATERA UTARA MEDAN
UNIVERSITAS ISLAM NEGERI
foreach ($analisa as $key => $val) : ?>
<tr>
<td><?= $NILAI[$key]->nama_nilai ?> (<?= round($pro_dicari[$key], 4)
?>)</td>
<?php foreach ($ATRIBUT as $k => $v) : if ($k == $TARGET) continue ?>
<td><?= round($val[$k], 4) ?></td>
<?php endforeach ?>

```

```

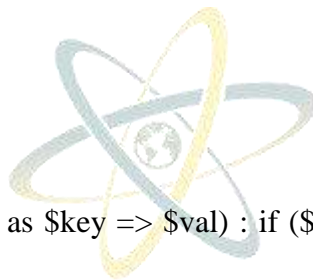
<td><?= $total[$key] ?></td>
</tr>
<?php endforeach ?>
</table>
</div>
<div class="card-footer">
<?php
//menyimpan nama nilai yang terpilih ke dalam array
$str = array();
foreach ($val_testing as $key => $val) {
if ($key == $TARGET)
continue;
$nama = isset($ATRIBUT_NILAI[$key]) ? $NILAI[$val]->nama_nilai : $val;
$str[] = " . $ATRIBUT[$key]->nama_atribut . ': <strong>' . $nama . '</strong>';
}
//mengurutkan total dari besar ke kecil
arsort($total);
$_SESSION['nilai'] = $val_testing;
$hasil[$key_testing] = key($total);
$asli[$key_testing] = $val_testing[$TARGET];
?>
<p>Berdasarkan perhitungan, dengan <?= implode(', ', $str) ?>, maka hasilnya:
<strong><?= $NILAI[key($total)]->nama_nilai ?></strong>.</p>
<a class="btn btn-secondary" href="cetak.php?m=hitung" target="_blank"><span
class="fa fa-print"></span> Cetak</a>
</div>
</div>
</div>
</div>
<?php endforeach ?>

```

```

<div class="card mb-3">
<div class="card-header">
<a href="#testing" data-toggle="collapse">Klasifikasi</a>
</div>
<div class="table-responsive collapse show" id="testing">
<table class="table table-bordered table-hover table-striped m-0">
<thead>
<tr class="nw">
<th>Nomor</th>
<th>Nama</th>
<?php foreach ($ATRIBUT as $key => $val) : if ($key == $TARGET) continue
?>
<th><?= $val->nama_atribut ?></th>
<?php endforeach ?>
<th>NBC</th>
</tr>
</thead>
<?php
$benar = 0;
foreach ($testing as $key => $val) : $benar += $hasil[$key] == $asli[$key] ? 1 : 0
?>
<tr>
<td><?= $key ?></td>
<td><?= $nama_testing[$key] ?></td>
<?php foreach ($val as $k => $v) : if ($k == $TARGET) continue ?>
<td><?= isset($ATRIBUT_NILAI[$k]) ? $NILAI[$v]->nama_nilai : $v ?></td>
<?php endforeach ?>
<td><?= $NILAI[$hasil[$key]]->nama_nilai ?></td>
</tr>
<?php endforeach ?>

```



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```
</table>
```

```
</div>
```

```
</div>
```

Testing.php

```
<div class="page-header">
```

```
<h1>Testing</h1>
```

```
</div>
```

```
<div class="card">
```

```
<div class="card-header">
```

```
<form class="form-inline">
```

```
<input type="hidden" name="m" value="testing" />
```

```
<div class="form-group mr-1">
```

```
<input class="form-control" type="text" placeholder="Pencarian. . ." name="q"  
value="<?=$_get('q') ?>" />
```

```
</div>
```

```
<div class="form-group mr-1">
```

```
<button class="btn btn-success"><span class="fa fa-sync"></span>  
Refresh</button>
```

```
</div>
```

```
<div class="form-group mr-1">
```

```
<a class="btn btn-primary" href="?m=testing_tambah"><span class="fa fa-  
plus"></span> Tambah</a>
```

```
</div>
```

```
<div class="form-group mr-1">
```

```
<a class="btn btn-info" href="?m=testing_import"><span class="fa fa-  
import"></span> Import</a>
```

```
</div>
```

```
</form>
```

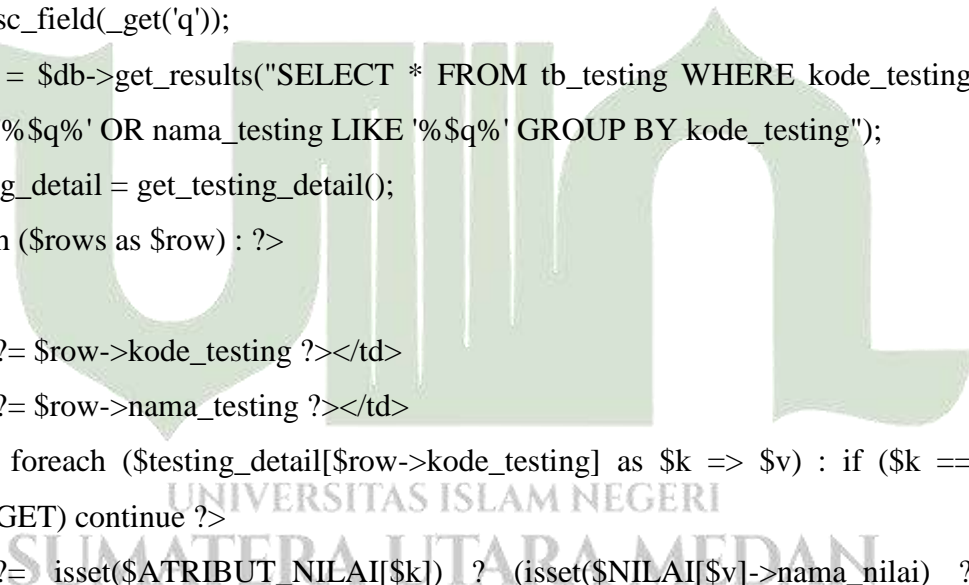
```
</div>
```

```
<div class="table-responsive">
```

```

<table class="table table-bordered table-hover table-striped m-0">
<thead>
<tr class="nw">
<th>Nomor</th>
<th>Nama</th>
<?php foreach ($ATRIBUT as $key => $val) : if ($key == $TARGET) continue
?>
<th><?= $val->nama_atribut ?></th>
<?php endforeach ?>
<th>Aksi</th>
</tr>
</thead>
<?php
$q = esc_field(_get('q'));
$rows = $db->get_results("SELECT * FROM tb_testing WHERE kode_testing
LIKE '%$q%' OR nama_testing LIKE '%$q%' GROUP BY kode_testing");
$testing_detail = get_testing_detail();
foreach ($rows as $row) : ?>
<tr>
<td><?= $row->kode_testing ?></td>
<td><?= $row->nama_testing ?></td>
<?php foreach ($testing_detail[$row->kode_testing] as $k => $v) : if ($k ==
$TARGET) continue ?>
<td><?= isset($ATRIBUT_NILAI[$k]) ? (isset($NILAI[$v]->nama_nilai) ?
$NILAI[$v]->nama_nilai : ") : $v ?></td>
<?php endforeach ?>
<td class="nw">
<a class="btn btn-sm btn-warning" href="?m=testing_ubah&ID=<?= $row->
kode_testing ?>"><span class="fa fa-edit"></span></a>

```



```
<a class="btn btn-sm btn-danger" href="aksi.php?act=testing_hapus&ID=<?=$row->kode_testing ?>" onclick="return confirm('Hapus testing?')"><span class="fa fa-trash"></span></a>
</td>
</tr>
<?php endforeach; ?>
</table>
</div>
</div>
```



UNIVERSITAS ISLAM NEGERI
SUMATERA UTARA MEDAN

Lampiran 2

KARTU BIMBINGAN SKRIPSI

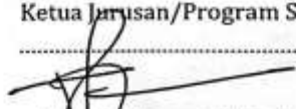
Semester Gasal/Genap Tahun Akademik /

Nama : KIKI WIDYA PRATIWI	Pembimbing I : SUPRIYANDI, M. Kom
NIM : 0701183211	Pembimbing II : Aldil Halim Lubis, M. Kom
Prog. Studi : ILMU KOMPUTER	SK Pembimbing :
Judul Skripsi : IMPLEMENTASI DATA MINING PADA PERSEDIAAN OBAT DI APOTEK PITONGA FARMA MENGGUNAKAN ALGORITMA NAIVE BAYES.	

P E R T	PEMBIMBING I			PEMBIMBING II		
	Tgl.	Materi Bimbingan	Tanda Tangan	Tgl.	Materi Bimbingan	Tanda Tangan
I	4/7 ²²	Revisi I, II, III		25/ Mei 2022	Bimbingan Bab I + Revisi Bab I Lansut ke Bab II	
II	4/8 ²²	Revisi kembali Analisa Manual I, II, III		10/ Juni 2022	Revisi Bab II	
III	12/8 ²²	Perbaikan daftar pustaka		11/ Agustus 2022	Revisi Bab II dan Lansut Bab III	
IV	6/9 ²²	Acc Seminar Proposal		25/ Agustus 2022	Revisi Bab III	
V	14/12 ²²	Revisi Bab III Tambahkan Data 4/ Bulan.		8/ September 2022	Acc Fempu	

VI	13/03	Rensi Punjab & Palsan		A.	05/01-23 Revisi bab IV dan bab V	ah
VII	00/03	Aec Pidang d		A	Aec Pidang 19/01-23	ah
VIII						
IX						
X						

Medan, 23 Januari 2023.
An. Dekan
Ketua Jurusan/Program Studi


ILKA ZULFRIA, M.KOM
NIP.198506042015031008

Catatan: Pada saat bimbingan, kartu ini harus diisi dan ditandatangani oleh pembimbing

**DAFTAR RIWAYAT HIDUP
(CURRICULUM VITAE)**



Nama : Kiki Widya Pratiwi
Nim : 0701183211
Tempat Tanggal Lahir: Lingga Tiga, 28 Februari 2000
Jenis Kelamin : Perempuan
Alamat : Dusun Janji Lobi Desa Lingga Tiga Kec. Bilah Hulu
Kab. Labuhanbatu
Agama : Islam
Status Menikah : Belum Menikah
No Hp : 082277354177
Nama Orang Tua
Ayah : Khairuddin
Ibu : Suwarni
Pendidikan Formal
2006 – 2012 : SDS Cisadane Mandiri
2012 – 2015 : SMP Negeri 2 Rantau Selatan
2015 – 2018 : SMA Negeri 2 Rantau Selatan
2018 – 2022 : Universitas Islam Negeri Sumatera Utara Medan