



KEMENTERIAN PENDIDIKAN, KEBUDAYAAN
RISET DAN TEKNOLOGI
POLITEKNIK NEGERI MALANG
JURUSAN TEKNOLOGI INFORMASI
PROGRAM STUDI TEKNIK INFORMATIKA

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No. Skripsi : 644

FORM VERIFIKASI

ABSTRAK BAHASA INGGRIS DAN TATA TULIS BUKU LAPORAN SKRIPSI

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Judul : Sistem Pengukuran Detak Jantung Secara RealTime
Pada Platform Internet Of Things Menggunakan Metode Naïve Bayes

NO	BAGIAN YANG DIVERIFIKASI	NAMA VERIFIKATOR	TANGGAL VERIFIKASI	TTD
1	Abstrak Berbahasa Inggris	Satrio Binusa Suryadi, SS, M.Pd	11 September 2021	
2	Tata Tulis Buku Laporan Skripsi	Muhammad Afif Hendrawan.,S.Kom., MT	15 September 2021	

1. JavaScript

- **Timeout**

```
<?php
session_start();
function timer(){
    $time=10000;
    $_SESSION[timeout]=time()+$time;
}
function cek_login(){
    $timeout=$_SESSION[timeout];
    if(time(<$timeout){
        timer();
        return true;
    }else{
        unset($_SESSION[timeout]);
        return false;
    }
}
?>
```

- **Tabel Detik**

```
<style>
.table-condensed {
font-size: 13px;
}

.table-akum {
font-size: 11px;
}

.judul-table{
font-weight: bold;
font-size: 13px;
background-color: black;
color: white;
}
</style>
```

```

<table id="example1" class="table table-condensed
table-bordered table-striped" >
  <thead>
    <tr class="judul-
table">
      <th
style="vertical-align: middle; background-color:
#008000; text-align: center;">No</th>
      <th
style="vertical-align: middle; background-color:
#008000; text-align: left;">Nama Pasien</th>
      <th
style="vertical-align: middle; background-color:
#008000; text-align: center;">Usia</th>
      <th
style="vertical-align: middle; background-color:
#008000; text-align: center;">BPM</th>
      <th
style="vertical-align: middle; background-color:
#008000; text-align: center;">Klasifikasi</th>
    </tr>
  </thead>
  <tbody>
    <?php
include
"../configurasi/koneksi.php";

$kd_proses2 =
$_POST['kd_proses2'];

$stampil_proyek =
mysql_query("SELECT * FROM hsl_bpm WHERE unik =
'$kd_proses2' ORDER BY id DESC");

$no=1;
while
($r=mysql_fetch_array($stampil_proyek)){

echo "<tr
class='warnabaris' >

```

```

<td>$no</td>

<td>$r[nm_pasien]</td>

<td>$r[usia]</td>

<td>$r[nilai_bpm]</td>

<td>$r[kelas_bpm]</td>

</tr>";

                                $no++;
                                }
                                echo "</tbody></table>";
                                ?>

                                <script>
                                $(function () {

                                $("#example1").DataTable();
                                $("#example3").DataTable();
                                $("#example4").DataTable();
                                $('#example2').DataTable({
                                "paging": true,
                                "lengthChange": true,
                                "searching": true,
                                "ordering": true,
                                "info": true,
                                "autoWidth": true
                                });
                                });

                                </script>

```

- **Media Admin**

```
<?php
```

```
session_start();
error_reporting(0);
include "timeout.php";

if($_SESSION[login]==1){
    if(!cek_login()){
        $_SESSION[login] = 0;
    }
}
if($_SESSION[login]==0){
    header('location:logout.php');
}
else{
if (empty($_SESSION['username']) AND
empty($_SESSION['passuser']) AND
$_SESSION['login']==0){
    echo "<link href=css/style.css rel=stylesheet
type=text/css>";
    echo "<div class='error msg'>Untuk mengakses Modul
anda harus login.</div>";
}
else{

?>
<html>
<head>
<title>JANTUNG</title>

    <!-- Bootstrap -->
    <link rel="stylesheet"
href="bootstrap/css/bootstrap.min.css">
    <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/font-
awesome/4.4.0/css/font-awesome.min.css">
    <link rel="stylesheet"
href="https://code.ionicframework.com/ionicons/2.0.1/cs
s/ionicons.min.css">
    <link rel="stylesheet"
href="dist/css/AdminLTE.min.css">
```

```
<link rel="stylesheet"
href="dist/css/skins/_all-skins.min.css">
<link rel="stylesheet"
href="plugins/iCheck/flat/blue.css">
<link rel="stylesheet"
href="plugins/morris/morris.css">
<link rel="stylesheet"
href="plugins/jvectormap/jquery-jvectormap-1.2.2.css">
<link rel="stylesheet"
href="plugins/datepicker/datepicker3.css">
<link rel="stylesheet"
href="plugins/daterangepicker/daterangepicker-bs3.css">
<link rel="stylesheet" href="plugins/bootstrap-
wysihtml5/bootstrap3-wysihtml5.min.css">
<link rel="stylesheet"
href="plugins/datatables/dataTables.bootstrap.css">

<script src="vendors/modernizr-2.6.2-respond-
1.1.0.min.js"></script>
<script src="vendors/jquery-
1.9.1.min.js"></script>
<script
src="bootstrap/js/bootstrap.min.js"></script>
<script src="assets/scripts.js"></script>

<script type="text/javascript" src="js/jquery-
1.4.4.min.js"></script>
<script type="text/javascript" src="js/jquery-
ui-1.8.8.custom.min.js"></script>
<script type="text/javascript"
src="js/jquery.validate.min.js"></script>
<script type="text/javascript"
src="js/jquery.uniform.min.js"></script>
<script type="text/javascript"
src="js/jquery.wysiwyg.js"></script>
<script type="text/javascript"
src="js/superfish.js"></script>
```

```
<script type="text/javascript" src="js/cufon-
yui.js"></script>
<script type="text/javascript"
src="js/Delicious_500.font.js"></script>
<script type="text/javascript"
src="js/jquery.flot.min.js"></script>
<script type="text/javascript"
src="js/custom.js"></script>
<script type="text/javascript"
src="js/facebox.js"></script>
<script type="text/javascript"
src="../js/clock.js"></script>
<script type="text/javascript"
src="js/jquery.cookie.js"></script>
<script type="text/javascript"
src="js/switcher.js"></script>
<script type="text/javascript" src="js/jquery-
1.10.2.js"></script>
<script type="text/javascript" src="js/jquery-
ui.js"></script>
<script type="text/javascript"
src="js/tabcontent.js"></script>

<script src="mqttws31.js"
type="text/javascript"></script>
<script src="jquery.min.js"
type="text/javascript"></script>
<script src="config.js"
type="text/javascript"></script>

<script>
    $(function() {
        $( "#tabs" ).tabs();
    });
</script>

<link rel="shortcut icon" type="image/x-icon"
href="images/lp3i.png">
</head>
```

```

<body onload="startclock()" class="hold-transition
skin-red sidebar-mini">

<div class="wrapper">

    <header class="main-header">
        <!-- Logo -->
        <a href="#" class="logo">

            <!-- mini logo for sidebar mini
            50x50 pixels -->
            <span class="logo-
            mini"><b>JANTUNG</b></span>

            <!-- logo for regular state and
            mobile devices -->
            <span class="logo-
            lg"><b>JANTUNG</b></span>
        </a>

        <!-- Header Navbar: style can be found in
        header.less -->
        <nav class="navbar navbar-static-top"
        role="navigation">

            <!-- Sidebar toggle button-->
            <a href="#" class="sidebar-toggle"
            data-toggle="offcanvas" role="button">
                <span class="sr-only">Toggle
            navigation</span>
            </a>

            <div class="navbar-custom-menu">
                <ul class="nav navbar-nav">
                    <!-- Messages: style can
                    be found in dropdown.less-->

                    <!-- Notifications:
                    style can be found in dropdown.less -->

```



```

<!-- Tasks: style can be
found in dropdown.less -->

<!-- User Account: style
can be found in dropdown.less -->
<li class="dropdown user
user-menu">
    <a href="#"
class="dropdown-toggle" data-toggle="dropdown">
        
            <span
class="hidden-xs">Admin</span>
        </a>
        <ul
class="dropdown-menu">
            <!-- User
image -->
            <li
class="user-header">
                
            </li>
            <!-- Menu
Body -->
            <!-- Menu
Footer-->
            <li
class="user-footer">
                <div
class="pull-left">

```



```
</div>

<!-- /.search form -->
<!-- sidebar menu: : style can be
found in sidebar.less -->
<ul class="sidebar-menu">

    <li>
        <a href="?module=home">
            <i class="fa fa-th"></i>
<span>Dashboard</span>
        </a>
    </li>

    <li>
        <a href="?module=kelas">
            <i class="fa fa-
dashboard"></i> <span>Kelas</span>
        </a>
    </li>

    <li>
        <a href="?module=histori">
            <i class="fa fa-
briefcase"></i> <span>Riwayat</span>
        </a>
    </li>

    <!--
    <li>
        <a href="?module=crud">
            <i class="fa fa-
briefcase"></i> <span>CRUD</span>
        </a>
    </li>
--!>
```

```

        </ul>
    </section>
    <!-- /.sidebar -->
</aside>
<div class="content-wrapper">
    <section class="content-header">
        <h1>
            Dashboard
            <small>Control panel</small>
        </h1>
        <ol class="breadcrumb">
            <li><a href="#"><i class="fa
fa-dashboard"></i> Home</a></li>
            <li
class="active">Dashboard</li>
        </ol>
    </section>

    <section class="content">
        <div class="box box-default color-
palette-box">
            <div class="box-body">
                <?php include
"content_admin.php"; ?>
            </div>
        </div>
    </section>
</div>
</div>

</body>
</html>
<?php
}
}
?>
<!--/.fluid-container-->

```

```
<!-- jQuery 2.1.4 -->
<script src="plugins/jquery/jquery-
2.1.4.min.js"></script>
<!-- Bootstrap 3.3.5 -->
<!-- jQuery UI 1.11.4 -->
<script
src="https://code.jquery.com/ui/1.11.4/jquery-
ui.min.js"></script>
<!-- Resolve conflict in jQuery UI tooltip with
Bootstrap tooltip -->
<script>
$.widget.bridge('uibutton', $.ui.button);
</script>
<!-- <script
src="bootstrap/js/bootstrap.min.js"></script>-->
<!-- Morris.js charts -->
<script
src="https://cdnjs.cloudflare.com/ajax/libs/raphael/2.1
.0/raphael-min.js"></script>
<script
src="plugins/morris/morris.min.js"></script>
<!-- Sparkline -->
<script
src="plugins/sparkline/jquery.sparkline.min.js"></scrip
t>
<!-- jvectormap -->
<script src="plugins/jvectormap/jquery-jvectormap-
1.2.2.min.js"></script>
<script src="plugins/jvectormap/jquery-jvectormap-
world-mill-en.js"></script>
<!-- jQuery Knob Chart -->
<script src="plugins/knob/jquery.knob.js"></script>
<!-- daterangepicker -->
<script
src="https://cdnjs.cloudflare.com/ajax/libs/moment.js/2
.10.2/moment.min.js"></script>
<script
src="plugins/daterangepicker/daterangepicker.js"></scri
pt>
```

```
<!-- datepicker -->
    <script src="plugins/datepicker/bootstrap-
datepicker.js"></script>
    <script
src="plugins/ckeditor/ckeditor.js"></script>
    <!-- DataTables -->
    <script
src="plugins/datatables/jquery.dataTables.min.js"></scr
ipt>
    <script
src="plugins/datatables/dataTables.bootstrap.min.js"></
script>
    <!-- SlimScroll -->
    <script
src="plugins/slimScroll/jquery.slimscroll.min.js"></scr
ipt>
    <!-- FastClick -->
    <script
src="plugins/fastclick/fastclick.min.js"></script>
    <!-- AdminLTE App -->
    <script src="dist/js/app.min.js"></script>
    <!-- AdminLTE for demo purposes -->
    <script src="dist/js/demo.js"></script>

<!-- page script -->
<script>
    $(function () {

        $("#example1").DataTable();
        $("#example3").DataTable();
        $("#example4").DataTable();
        $('#example2').DataTable({
            "paging": true,
            "lengthChange": true,
            "searching": true,
            "ordering": true,
            "info": true,
            "autoWidth": true
        });
    });

```

```
});  
  
</script>
```

- **Logout**

```
<?php  
    session_start();  
    session_destroy();  
    header('location:index.php');  
?>
```

- **Kirim Data**

```
<?php  
include "../configurasi/koneksi.php";  
  
$nilai = $_POST['hbpm'];  
  
$login=mysql_query("SELECT * FROM onoff WHERE  
stt='ON'");  
$ketemu=mysql_num_rows($login);  
  
if ($ketemu > 0){  
  
    if($nilai > 200){  
  
        }else{  
  
        mysql_query("INSERT INTO simsen(hsl)  
VALUES('$nilai')");  
  
        }  
  
    }else{
```

```
}
```

- **Index**

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible"
content="IE=edge">
    <meta name="viewport" content="width=device-width,
initial-scale=1.0">
    <title>Login</title>
    <!-- Tell the browser to be responsive to screen
width -->
    <meta content="width=device-width, initial-scale=1,
maximum-scale=1, user-scalable=no" name="viewport">
    <!-- Bootstrap 3.3.5 -->
    <link rel="stylesheet"
href="bootstrap/css/bootstrap.min.css">
    <!-- Font Awesome -->
    <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/font-
awesome/4.4.0/css/font-awesome.min.css">
    <!-- Ionicons -->
    <link rel="stylesheet"
href="https://code.ionicframework.com/ionicons/2.0.1/cs
s/ionicons.min.css">
    <!-- Theme style -->
    <link rel="stylesheet"
href="dist/css/AdminLTE.min.css">
    <!-- iCheck -->
    <link rel="stylesheet"
href="plugins/iCheck/square/blue.css">

    <!-- HTML5 Shim and Respond.js IE8 support of HTML5
elements and media queries -->
```



```
<!-- WARNING: Respond.js doesn't work if you view
the page via file:// -->
<!--[if lt IE 9]>
    <script
src="https://oss.maxcdn.com/html5shiv/3.7.3/html5shiv.m
in.js"></script>
    <script
src="https://oss.maxcdn.com/respond/1.4.2/respond.min.j
s"></script>
<![endif]-->
</head>
<body class="hold-transition login-page">
    <div class="login-box">
        <div class="login-logo">
            

        </div><!-- /.login-logo -->
        <center><b>SISTEM INFORMASI SENSOR</b></center>
    <div class="login-box-body">
        <form action="cek_login.php" method="post">
            <div class="form-group has-feedback">
                <input type="text" class="form-control"
placeholder="Username" name="username">
                <span class="glyphicon glyphicon-envelope
form-control-feedback"></span>
            </div>
            <div class="form-group has-feedback">
                <input type="password" class="form-control"
placeholder="Password" name="password">
                <span class="glyphicon glyphicon-lock form-
control-feedback"></span>
            </div>
            <div class="row">
                <!-- <div class="col-xs-8">
                    <div class="checkbox icheck">
                        <label>
                            <input type="checkbox"> Remember Me
                        </label>
                    </div>
                </div>
            </div>
        </form>
    </div>
</body>
</html>
```

```

        </div> /.col -->
        <div class="col-xs-4">
            <button type="submit" class="btn btn-
primary btn-block btn-flat">Sign In</button>
        </div><!-- /.col -->
        <div class="col-xs-4"></div>
    </div>
</form>

    <!-- <a href="#">I forgot my password</a><br> --
->

</div><!-- /.login-box-body -->

</div><!-- /.login-box -->
<!-- jQuery 2.1.4 -->
<script src="../../plugins/jquery/jquery-
2.1.4.min.js"></script>
<!-- Bootstrap 3.3.5 -->
<script
src="../../bootstrap/js/bootstrap.min.js"></script>
<!-- iCheck -->
<script
src="../../plugins/iCheck/ichack.min.js"></script>

<script>
$(function () {
    $('input').iCheck({
        checkboxClass: 'icheckbox_square-blue',
        radioClass: 'iradio_square-blue',
        increaseArea: '20%' // optional
    });
});
</script>

```

```
</body>

</html>
```

- **Content Admin**

```
<?php
include "../configurasi/koneksi.php";
include "../configurasi/library.php";
include "../configurasi/fungsi_indotgl.php";
include "../configurasi/fungsi_combobox.php";

if ($_GET['module']=='home'){

    $ndat=mysql_query("SELECT * FROM datum");
    $hndat=mysql_fetch_array($ndat);
    $hhndat = $hndat['n_datum'];

    $non=mysql_query("SELECT * FROM onoff");
    $hnon=mysql_fetch_array($non);
    $nnon = $hnon['stt'];

?>

<div class="box box-danger box-solid">
    <div class="box-header with-border">
        <h3 class="box-title">DATA
PROSES BPM</h3>
        <div class="box-tools pull-
right">
            <button class="btn btn-
box-tool" data-widget="collapse"><i class="fa fa-
minus"></i></button>
        </div>
    </div>
    <div class="box-body">
```

```
        <a class ='btn btn-danger btn-
flat' href='aksi_onoff.php?stt=<?php echo $nnon
?>'><?php echo $nnon ?></a>

        <br><br>

        <form method="POST"
action="aksi_naive.php" enctype="multipart/form-data"
class="form-horizontal">

                <div
class="form-group">

                        <label
class="col-sm-2 control-label">Status MQTT server
</label>

                                <div
class="col-sm-6">

                                        <input type="text" name="ws" id="ws" class="form-
control">

</div>

                                </div>

                                        <div
class="form-group">

                                                <label
class="col-sm-2 control-label">Kode Proses </label>

                                                        <div
class="col-sm-6">

                                                                <input type="text" name="kd_proses" id="kd_proses"
class="form-control" required="required" value="<?php
echo date('dmYhis'); ?>">

</div>

                                                                </div>

                                                        </div>

                                                </div>

                                </div>

                </div>
```

```

<div
class="form-group">
<label
class="col-sm-2 control-label">Nama Pasien </label>
<div
class="col-sm-6">
<input type="text" name="nm_pasien" id="nm_pasien"
class="form-control">
</div>
</div>
<div
class="form-group">
<label
class="col-sm-2 control-label">Usia </label>
<div
class="col-sm-1">
<input type="text" name="usia" id="usia" class="form-
control" required="required">
</div>
<div
class="col-sm-1">
<label class="col-sm-1 control-label">*Tahun </label>
</div>
</div>
<div
class="buttons">
<a class ="btn
btn-success btn-flat" onclick="reply_click();">PROSES
HASIL SCAN</a>

```

```
        <input  
class="btn btn-primary" type="submit" value="PROSES  
NAIVE BAYES">
```

```
    </div>
```

```
</form>
```

```
    <div id="tabeldetik">
```

```
</div>
```

```
</div>
```

```
</div>
```

```
<?php
```

```
}
```

```
elseif ($_GET['module']=='profil'){  
    include "modul/mod_profil/profil.php";  
}
```

```
elseif ($_GET['module']=='kelas'){  
    include "modul/mod_kelas/kelas.php";  
}
```

```
elseif ($_GET['module']=='hasil'){  
    include "modul/mod_hasil/hasil.php";  
}
```

```
elseif ($_GET['module']=='histori'){  
    include "modul/mod_histori/histori.php";  
}
```

```
elseif ($_GET['module']=='crud'){  
    include "modul/mod_crud/crud.php";
```

```
}

?>

<script>

var myVarD;
var myVarM;
var mqtt;
var reconnectTimeout = 1000;

$(document).ready(function() {
    MQTTconnect();
});

function MQTTconnect() {

    mqtt = new Paho.MQTT.Client(host,port,'mqtt');
    var options = {
        timeout: 3,
        useSSL: useTLS,
        cleanSession: cleansession,
        onSuccess: onConnect,
        onFailure: function (message) {
            $('#ws').val("Connection failed: " +
message.errorMessage + "Retrying");
            setTimeout(MQTTconnect,
reconnectTimeout);
        }
    };

    mqtt.onConnectionLost = onConnectionLost;
    mqtt.onMessageArrived = onMessageArrived;

    if (username != null) {
        options.userName = username;
        options.password = password;
```

```
    }
    console.log("Host="+ host + ", port=" + port);
    mqtt.connect(options);
};

function onConnect() {
    mqtt.subscribe(topic, {qos: 0});
    $('#ws').val('Connected to ' + host + ':' +
port + ' Topic: ' + topic);
};

function onConnectionLost(response) {
    setTimeout(MQTTconnect, reconnectTimeout);
    $('#ws').val("connection lost: " +
responseObject.errorMessage + ". Reconnecting");
};

function onMessageArrived(message) {

    var topic = message.destinationName;
    var payload = message.payloadString;

    $.ajax({
        url: 'kirimdata.php',
        type: 'post',
        data: {'hbpm': payload },
        success: function(data) {
        }
    });
};

function reply_click(){

    updated();
}
```



```
var kd_proses =
document.getElementById('kd_proses').value;
var nm_pasien =
document.getElementById('nm_pasien').value;
var usia = document.getElementById('usia').value;

$.ajax({
    type: 'post',
    url: "aksi_proses.php",
    data: {'nm_pasien': nm_pasien,
'usia': usia, 'kd_proses': kd_proses },
    success: function(data) {
        alert('proses selesai');
        clearTimeout(myVarD);
    }
});

function updateD() {

var kd_proses2 =
document.getElementById('kd_proses').value;

$.ajax({
    url: 'tbldetik.php',
    type: 'post',
    data: {'kd_proses2': kd_proses2 },
    success: function(data) {
        $('#tabeldetik').html(data);
    }
});

myVarD = setTimeout(updateD, 250);
}

</script>
```

- **Cek Login**

```
<?php
include "../configurasi/koneksi.php";

$username = $_POST['username'];
$password = $_POST['password'];

$login=mysql_query("SELECT * FROM admin WHERE
username='$username' AND password='$password'");
$ketemu=mysql_num_rows($login);
$r=mysql_fetch_array($login);

if ($ketemu > 0){
    session_start();
    echo $ketemu;
    include "timeout.php";

    $_SESSION['namauser']      = $r['username'];
    $_SESSION['namalengkap']   = $r['nama_lengkap'];
    $_SESSION['passuser']      = $r['password'];
    $_SESSION['leveluser']     = "admin";
    $_SESSION['levelnya']      = "admin";
    $_SESSION['kd_level']      = "1";
    $_SESSION['idadmin']       = $r['id_admin'];

    $_SESSION['login'] = 1;
    timer();

    $sid_lama = session_id();

    session_regenerate_id();

    $sid_baru = session_id();

    header('location:media_admin.php?module=home');

} else {
    echo "<link href=css/style.css rel=stylesheet
type=text/css>";
}
```

```
        echo "<div class='error msg'>Login Gagal, Username
atau Password salah, atau account anda sedang di
blokir. ";
        echo "<a href=index.php><b>ULANGI
LAGI</b></a></center></div>";
    }
?>
```

- **Aksi Proses**

```
<?php
include "../configurasi/koneksi.php";
include "../configurasi/fungsi_thumb.php";
include "../configurasi/library.php";

$nm_pasien = $_POST['nm_pasien'];
$usia = $_POST['usia'];
$kd_proses = $_POST['kd_proses'];

if($nm_pasien == "" && $usia == ""){
break;
}else{

mysql_query("INSERT INTO
data_pasien(unik_pasien,nama_pasien,usia_pasien)
VALUES('$kd_proses','$nm_pasien','$usia')");

$ads=mysql_query("SELECT * FROM simsen ORDER BY id_s
ASC");
$no=1;
while($r1=mysql_fetch_array($ads)){

$hss = $r1['hsl'];
$id_s = $r1['id_s'];

if($usia >= 6 && $usia <= 10){
```

```

        //KUALIFIKASI 1
        if($hss >= 70 && $hss <= 110){
            $sttbpm = "NORMAL";
        }else{
            $sttbpm = "TIDAK NORMAL";
        }

    } else if($usia >= 11 && $usia <= 14){

        //KUALIFIKASI 2
        if($hss >= 60 && $hss <= 105){
            $sttbpm = "NORMAL";
        }else{
            $sttbpm = "TIDAK NORMAL";
        }

    } else if($usia >= 15){

        //KUALIFIKASI 3
        if($hss >= 60 && $hss <= 100){
            $sttbpm = "NORMAL";
        }else{
            $sttbpm = "TIDAK NORMAL";
        }

    }else{
        $sttbpm = "-";
    }

    if($sttbpm == "-"){
        break;
    }else{

        mysql_query("INSERT INTO
hsl_bpm(unik,nm_pasien,usia,nilai_bpm,kelas_bpm)

VALUES('$kd_proses','$nm_pasien','$usia','$hss','$sttbp
m')");

```

```
mysql_query("DELETE FROM simsen WHERE id_s =
'$id_s'");

}

sleep(1);
}
}

?>
```

- **Aksi On Off**

```
<?php

include "../configurasi/koneksi.php";

$sttnya = $_GET['stt'];
if($sttnya == "ON"){
    $hsl = "OFF";
}else{
    $hsl = "ON";
}

mysql_query("UPDATE onoff SET stt = '$hsl' WHERE id =
'1'");

header('location:media_admin.php?module=home');

?>
```

- **Aksi Naïve**

```
<?php
include "../configurasi/koneksi.php";
include "../configurasi/fungsi_thumb.php";
include "../configurasi/library.php";
```

```

$kd_proses = $_POST['kd_proses'];

$avnormal=mysql_query("SELECT AVG(nilai_bpm) AS avn
FROM hsl_bpm WHERE unik='$kd_proses' AND
kelas_bpm='NORMAL'");
$rvn=mysql_fetch_array($avnormal);
$hslavn = $rvn['avn'];

$avtdknormal=mysql_query("SELECT AVG(nilai_bpm) AS
avtn FROM hsl_bpm WHERE unik='$kd_proses' AND
kelas_bpm='TIDAK NORMAL'");
$rvtn=mysql_fetch_array($avtdknormal);
$hslavtn = $rvtn['avtn'];

mysql_query("INSERT INTO
mean(unik_pasien,kelas,n_average)
VALUES ('$kd_proses','NORMAL','$hslavn')");

mysql_query("INSERT INTO
mean(unik_pasien,kelas,n_average)
VALUES ('$kd_proses','TIDAK NORMAL','$hslavtn')");

$cek1=mysql_query("SELECT * FROM hsl_bpm WHERE
unik='$kd_proses' AND kelas_bpm='NORMAL'");
$ketemul=mysql_num_rows($cek1);
if ($ketemul > 0){

    $dtjmlnormal=mysql_query("SELECT COUNT(id) AS
jmlnormal FROM hsl_bpm WHERE unik='$kd_proses' AND
kelas_bpm='NORMAL'");
    $hdjmlnormal=mysql_fetch_array($dtjmlnormal);

    $ttlnormal = $hdjmlnormal['jmlnormal'];

```

```

        $nbpm=mysql_query("SELECT * FROM hsl_bpm
WHERE unik='$kd_proses' AND kelas_bpm='NORMAL' ORDER BY
id ASC");
        while($r1=mysql_fetch_array($nbpm)){

                $nilai_bpm = $r1['nilai_bpm'];
                $bpm_min_average = $nilai_bpm -
$shslavn;
                $bpm_min_average_pdua =
$bpm_min_average * $bpm_min_average;

                mysql_query("INSERT INTO
standar_deviiasi(unik_pasien,kelas_deviiasi,n_bpm,n_avera
ge,bpm_min_average,bpm_min_average_pdua)
VALUES('$kd_proses','NORMAL','$nilai_bpm','$shslavn','$b
pm_min_average','$bpm_min_average_pdua')");

                $sumnormal=mysql_query("SELECT
SUM(bpm_min_average_pdua) AS sunormal FROM
standar_deviiasi WHERE unik_pasien='$kd_proses' AND
kelas_deviiasi='NORMAL'");

                $shsumnormal=mysql_fetch_array($sumnormal);

                $ttlsumnormal =
sqrt($shsumnormal['sunormal'] / $ttlnormal);

                mysql_query("UPDATE data_pasien SET
n_deviiasi_normal = '$ttlsumnormal' WHERE unik_pasien =
'$kd_proses'");
        }
    }else
    {
        $ttlsumnormal = "1";
        mysql_query("UPDATE data_pasien SET
n_deviiasi_normal = '1' WHERE unik_pasien =
'$kd_proses'");
    }
}

```

```

}

$cek2=mysql_query("SELECT * FROM hsl_bpm WHERE
unik='$kd_proses' AND kelas_bpm='TIDAK NORMAL'");
$ketemu2=mysql_num_rows($cek2);
if ($ketemu2 > 0){

    $dtjmltnormal=mysql_query("SELECT COUNT(id) AS
jmltnormal FROM hsl_bpm WHERE unik='$kd_proses' AND
kelas_bpm='TIDAK NORMAL'");
    $hdjmltnormal=mysql_fetch_array($dtjmltnormal);

    $ttltnormal = $hdjmltnormal['jmltnormal'];

    $nbpm2=mysql_query("SELECT * FROM hsl_bpm WHERE
unik='$kd_proses' AND kelas_bpm='TIDAK NORMAL' ORDER BY
id ASC");
    while($r2=mysql_fetch_array($nbpm2)){

        $nilai_bpm2 = $r2['nilai_bpm'];
        $bpm_min_average2 = $nilai_bpm2 -
$shslavtn;
        $bpm_min_average_pdua2 = $bpm_min_average2
* $bpm_min_average2;

        mysql_query("INSERT INTO
standar_deviiasi(unik_pasien,kelas_deviiasi,n_bpm,n_avera
ge,bpm_min_average,bpm_min_average_pdua)

VALUES('$kd_proses','TIDAK
NORMAL','$nilai_bpm2','$shslavtn','$bpm_min_average2','$
bpm_min_average_pdua2')");

        $sumtnormal=mysql_query("SELECT
SUM(bpm_min_average_pdua) AS sutnormal FROM

```



```

standar_deviasi WHERE unik_pasien='$kd_proses' AND
kelas_deviasi='TIDAK NORMAL');

$sumtnormal=mysql_fetch_array($sumtnormal);

        $ttlsumtnormal =
sqrt($sumtnormal['sutnormal'] / $ttltnormal);

        mysql_query("UPDATE data_pasien SET
n_deviasi_tdknormal = '$ttlsumtnormal' WHERE
unik_pasien = '$kd_proses'");

    }

}else
{

        $ttlsumtnormal = "1";
        mysql_query("UPDATE data_pasien SET
n_deviasi_tdknormal = '1' WHERE unik_pasien =
'$kd_proses'");

}

        $jmldata=mysql_query("SELECT COUNT(id) AS
jmldatanya FROM hsl_bpm WHERE unik='$kd_proses'");
        $hjmldata=mysql_fetch_array($jmldata);

        $ttlhjmldata = $hjmldata['jmldatanya'];

        $probnormal = $ttltnormal / $ttlhjmldata;
        mysql_query("INSERT INTO
probabilitas(unik_pasien,kelas_probabilitas,n_probabili
tas)

VALUES('$kd_proses','NORMAL','$probnormal')");

        $probtnormal = $ttltnormal / $ttlhjmldata;

```

```

mysql_query("INSERT INTO
probabilitas (unik_pasien, kelas_probabilitas, n_probabili
tas)

VALUES ('$kd_proses', 'TIDAK NORMAL', '$probtnormal'");

    $jumlahprob = $probnormal + $probtnormal;
    mysql_query("INSERT INTO
probabilitas (unik_pasien, kelas_probabilitas, n_probabili
tas)

VALUES ('$kd_proses', 'JUMLAH', '$jumlahprob'");

    if(($probnormal == "1") OR ($probtnormal ==
"1")){

        mysql_query("INSERT INTO
gaussian (unik_pasien, kelas_gaussian, n_gaussian)

VALUES ('$kd_proses', 'NORMAL', '$probnormal'");
        mysql_query("INSERT INTO
gaussian (unik_pasien, kelas_gaussian, n_gaussian)

VALUES ('$kd_proses', 'TIDAK NORMAL', '$probtnormal'");

        if($probnormal > $probtnormal){

            mysql_query("UPDATE data_pasien SET kesimpulan =
'NORMAL' WHERE unik_pasien = '$kd_proses'");

        }else{

            mysql_query("UPDATE data_pasien SET kesimpulan =
'TIDAK NORMAL' WHERE unik_pasien = '$kd_proses'");

        }
}

```

```

}else{

    $n2 = sqrt(2 * 3.14 * $ttlsumnormal);
    $tmp1 = $probnormal - $hslavn;
    $n3 = pow($tmp1,2);
    $n4 = (2*($ttlsumnormal) * $ttlsumnormal));
    $n5 = $n3 / $n4;
    $n6 = exp($n5);
    $n7 = $n2 * $n6;
    $n8 = 1 / $n7;

    $n2a = sqrt(2 * 3.14 * $ttlsumtnormal);
    $tmp1a = $probtnormal - $hslavtn;
    $n3a = pow($tmp1a,2);
    $n4a = (2*($ttlsumtnormal) * $ttlsumtnormal));
    $n5a = $n3a / $n4a;
    $n6a = exp($n5a);
    $n7a = $n2a * $n6a;
    $n8a = 1 / $n7a;

    mysql_query("INSERT INTO
    gaussian(unik_pasien,kelas_gaussian,n_gaussian)
    VALUES ('$kd_proses','NORMAL','$n8')");
    mysql_query("INSERT INTO
    gaussian(unik_pasien,kelas_gaussian,n_gaussian)
    VALUES ('$kd_proses','TIDAK NORMAL','$n8a')");

    if($n8 > $n8a){

        mysql_query("UPDATE data_pasien SET kesimpulan =
        'NORMAL' WHERE unik_pasien = '$kd_proses'");

    }else
    {

```

```

        mysql_query("UPDATE data_pasien SET kesimpulan =
'TIDAK NORMAL' WHERE unik_pasien = '$kd_proses'");

    }

}

header('location:media_admin.php?module=hasil&kd_proses=
'.$kd_proses);

?>

```

- **Aksi Hasil**

```

<?php
session_start();
if (empty($_SESSION['username']) AND
empty($_SESSION['passuser'])) {
    echo "<link href='style.css' rel='stylesheet'
type='text/css'>
<center>Untuk mengakses modul, Anda harus login <br>";
    echo "<a
href=../../index.php><b>LOGIN</b></a></center>";
}
else{
include "../../configurasi/koneksi.php";
include "../../configurasi/fungsi_thumb.php";
include "../../configurasi/library.php";

$module=$_GET['module'];
$act=$_GET['act'];

if ($module=='hasil' AND $act=='hapus_satuan'){

    mysql_query("DELETE FROM prosen_m WHERE id =
'$_GET[id]'");
    header('location:../../media_admin.php?module=
'.$module);
}
}
}

```

```
}

//Hapus Proyek
elseif ($module=='hasil' AND $act=='hapus_semua'){

    mysql_query("TRUNCATE TABLE prosen_m");

    header('location:../../media_admin.php?module='.$module
);

}

}

?>
```

- **Hasil**

```
<style>
.table-condensed {
font-size: 13px;
}

.table-akum {
font-size: 11px;
}

.judul-table{
font-weight: bold;
font-size: 13px;
background-color: black;
color: white;
}
</style>

<?php
session_start();
if (empty($_SESSION['username']) AND
empty($_SESSION['passuser'])) {
```

```
    echo "<link href=../css/style.css rel=stylesheet
type=text/css>";
    echo "<div class='error msg'>Untuk mengakses Modul
anda harus login.</div>";
}
else{

include "../..../configurasi/class_paging.php";

$aksi="modul/mod_hasil/aksi_hasil.php";
$aksi_hasil = "masuk/modul/mod_hasil/aksi_hasil.php";
switch($_GET[act]){

    default:

        $stampil_awal = mysql_query("SELECT * FROM hsl_bpm
WHERE unik = '$_GET[kd_proses]' ORDER BY id ASC");
        $stampil_mean = mysql_query("SELECT * FROM mean WHERE
unik_pasien = '$_GET[kd_proses]' ORDER BY id_mean
ASC");
        $stampil_sd = mysql_query("SELECT * FROM
standar_deviasi WHERE unik_pasien = '$_GET[kd_proses]'
ORDER BY id_sd ASC");
        $stampil_dp = mysql_query("SELECT * FROM data_pasien
WHERE unik_pasien = '$_GET[kd_proses]' ORDER BY
id_pasien ASC");
        $rx=mysql_fetch_array($stampil_dp);
        $stampil_pro = mysql_query("SELECT * FROM
probabilitas WHERE unik_pasien = '$_GET[kd_proses]'
ORDER BY id_probabilitas ASC");
        $stampil_gau = mysql_query("SELECT * FROM gaussian
WHERE unik_pasien = '$_GET[kd_proses]' ORDER BY
id_gaussian ASC");

    ?>
```



```

                                <th
style="vertical-align: middle; background-color:
#008000; text-align: center;">No</th>
                                <th
style="vertical-align: middle; background-color:
#008000; text-align: center;">BPM</th>
                                <th
style="vertical-align: middle; background-color:
#008000; text-align: left;">Kelas</th>
                                </tr>
                                </thead>
                                <tbody>
                                <?php
                                        $no=1;
                                        while
($r=mysql_fetch_array($stampil_awal)){
                                                echo "<tr
class='warnabaris' >
                                <td align=center>$no</td>
                                <td align=center>$r[nilai_bpm]</td>
                                <td align=left>$r[kelas_bpm]</td>
                                </td>
                                </tr>";
                                                $no++;
                                        }
                                echo "</tbody></table>";
                                ?>
                                <br>

```



```

                                <h3 class="box-
title">MEAN</h3>
                                <table class="table table-
bordered table-striped" >
                                    <thead>
                                        <tr class="judul-
table">
                                            <th
style="vertical-align: middle; background-color:
#008000; text-align: center;">No</th>
                                            <th
style="vertical-align: middle; background-color:
#008000; text-align: left;">Kelas</th>
                                            <th
style="vertical-align: middle; background-color:
#008000; text-align: left;">Mean</th>
                                        </tr>
                                    </thead>
                                    <tbody>
                                        <?php
                                            $nol=1;
                                            while
($r1=mysql_fetch_array($stampil_mean)){
                                                echo "<tr
class='warnabaris' >
<td align=center>$nol</td>
<td align=left>$r1[kelas]</td>
<td align=left>$r1[n_average]</td>
</td>
</tr>";
                                            $nol++;
                                            }

```

```

echo "</tbody></table>";
?>

<br>

<h3 class="box-title">STANDAR
DEVIASI (POPULASI)</h3>

<table class="table table-
bordered table-striped" >
    <thead>
        <tr class="judul-
table">
            <th
style="vertical-align: middle; background-color:
#008000; text-align: center;">No</th>
            <th
style="vertical-align: middle; background-color:
#008000; text-align: left;">Kelas</th>
            <th
style="vertical-align: middle; background-color:
#008000; text-align: center;">xi</th>
            <th
style="vertical-align: middle; background-color:
#008000; text-align: center;">x</th>
            <th
style="vertical-align: middle; background-color:
#008000; text-align: center;">xi - x</th>
            <th
style="vertical-align: middle; background-color:
#008000; text-align: center;">(xi - x)2</th>
        </tr>
    </thead>
    <tbody>
        <?php
                                $no2=1;
                                while
($r2=mysql_fetch_array($stampil_sd)) {

```

```

class='warnabaris' >
    <td align=center>$no2</td>
    <td align=left>$r2[kelas_deviiasi]</td>
    <td align=center>$r2[n_bpm]</td>
    <td align=center>$r2[n_average]</td>
    <td align=center>$r2[bpm_min_average]</td>
    <td align=center>$r2[bpm_min_average_pdua]</td>
</td>
</tr>";

    $no2++;
}
echo "</tbody></table>";
?>
<br>
<h4 class="box-title">Hasil
Standar Deviasi Kelas NORMAL adalah : <?php echo
$rx['n_deviiasi_normal']; ?></h4>
    <h4 class="box-title">Hasil
Standar Deviasi Kelas TIDAK NORMAL adalah : <?php echo
$rx['n_deviiasi_tdknormal']; ?></h4>
<br>
<h3 class="box-
title">PROBABILITAS</h3>
<table class="table table-
bordered table-striped" >
    <thead>

```

```

        <tr class="judul-
table">
            <th
style="vertical-align: middle; background-color:
#008000; text-align: center;">No</th>
            <th
style="vertical-align: middle; background-color:
#008000; text-align: left;">Kelas</th>
            <th
style="vertical-align: middle; background-color:
#008000; text-align: left;">Probabilitas</th>
        </tr>
    </thead>
    <tbody>
    <?php
        $no3=1;
        while
($r3=mysql_fetch_array($stampil_pro)){
            echo "<tr
class='warnabaris' >
            <td align=center>$no3</td>
            <td align=left>$r3[kelas_probabilitas]</td>
            <td center=left>$r3[n_probabilitas]</td>
            </td>
            </tr>";
            $no3++;
        }
        echo "</tbody></table>";
    ?>
    <br>

```

```

                <h3 class="box-
title">GAUSIAN</h3>
                <table class="table table-
bordered table-striped" >
                    <thead>
                        <tr class="judul-
table">
                            <th
style="vertical-align: middle; background-color:
#008000; text-align: center;">No</th>
                            <th
style="vertical-align: middle; background-color:
#008000; text-align: left;">Kelas</th>
                            <th
style="vertical-align: middle; background-color:
#008000; text-align: left;">Gaussian</th>
                        </tr>
                    </thead>
                    <tbody>
                        <?php
                            $no4=1;
                            while
($r4=mysql_fetch_array($tampil_gau)){
                                echo "<tr
class='warnabaris' >
                <td align=center>$no4</td>
                <td align=left>$r4[kelas_gaussian]</td>
                <td center=left>$r4[n_gaussian]</td>
                </td>
                </tr>";
                            $no4++;

```

```

    }
    echo "</tbody></table>";
    ?>

    <h3 class="box-
title">KESIMPULAN hasil pengujian BPM anda adalah <?php
echo $rx['kesimpulan']; ?></h3>

    </div>
</div>

<?php
    break;
}
}
?>

```

- **Aksi Histori**

```

<?php
session_start();
if (empty($_SESSION['username']) AND
empty($_SESSION['passuser'])) {
    echo "<link href='style.css' rel='stylesheet'
type='text/css'>
<center>Untuk mengakses modul, Anda harus login <br>";
    echo "<a
href=../../index.php><b>LOGIN</b></a></center>";
}
else{
include "../../configurasi/koneksi.php";
include "../../configurasi/fungsi_thumb.php";
include "../../configurasi/library.php";

    mysql_query("DELETE FROM data_pasien WHERE
unik_pasien = '$_GET[id]'");

```

```

mysql_query("DELETE FROM gaussian WHERE unik_pasien =
'$_GET[id]'");
mysql_query("DELETE FROM hsl_bpm WHERE unik =
'$_GET[id]'");
mysql_query("DELETE FROM mean WHERE unik_pasien =
'$_GET[id]'");
mysql_query("DELETE FROM probabilitas WHERE
unik_pasien = '$_GET[id]'");
mysql_query("DELETE FROM standar_deviasi WHERE
unik_pasien = '$_GET[id]'");

header('location:../../media_admin.php?module=histori')
;
}

?>

```

- **Histori**

```

<?php
session_start();
if (empty($_SESSION['username']) AND
empty($_SESSION['passuser'])) {
    echo "<link href=../css/style.css rel=stylesheet
type=text/css>";
    echo "<div class='error msg'>Untuk mengakses Modul
anda harus login.</div>";
}
else{

include "../../configurasi/class_paging.php";

$aksi="modul/mod_histori/aksi_histori.php";
$aksi_histori =
"masuk/modul/mod_histori/aksi_histori.php";
switch($_GET[act]){
    // Tampil Siswa
    default:

```

```
$stampil_histori = mysql_query("SELECT * FROM
data_pasien ORDER BY id_pasien ");
```

```
?>
```

```
<div class="box box-danger box-solid">
  <div class="box-header with-border">
    <h3 class="box-title">RIWAYAT
PEMERIKSAAN</h3>
    <div class="box-tools pull-
right">
      <button class="btn btn-
box-tool" data-widget="collapse"><i class="fa fa-
minus"></i></button>
    </div><!-- /.box-tools -->
  </div>
  <div class="box-body">
    <a class ='btn btn-success
btn-flat' href='?module=home'>TAMBAH</a>
    <br><br><br>
    <table id="example1"
class="table table-bordered table-striped" >
      <thead>
        <tr>
          <th>No</th>
          <th>Kode</th>
          <th>Nama
Pasien</th>
          <th>Usia</th>
          <th>Kesimpulan</th>
```



```

<th>Aksi</th>
                                </tr>
                                </thead>
                                <tbody>
                                <?php
                                    $no=1;
                                    while
($r=mysql_fetch_array($stampil_histori)){
                                        echo
" <tr class='warnabaris' >

                                <td>$no</td>

                                <td>$r[unik_pasien]</td>

                                <td>$r[nama_pasien]</td>

                                <td>$r[usia_pasien]</td>

                                <td>$r[kesimpulan]</td>

                                <td><a href='?module=hasil&kd_proses=$r[unik_pasien]'
title='VIEW' class='btn btn-warning btn-xs'>VIEW</a>

                                <a
href='$aksi?module=histori&id=$r[unik_pasien]'
title='HAPUS' class='btn btn-danger btn-xs'>HAPUS</a>

                                </td>

                                </tr>";

                                    $no++;
                                }
                                echo "</tbody></table>";
                                ?>
                                </div>

```

```

        </div>

<?php
    break;

    case "tambah":

        echo "
            <div class='box box-danger box-solid'>
                <div class='box-header with-border'>
                    <h3 class='box-title'>TAMBAH
KATEGORI</h3>
                    <div class='box-tools pull-
right'>
                        <button class='btn btn-
box-tool' data-widget='collapse'><i class='fa fa-
minus'></i></button>
                    </div><!-- /.box-tools -->
                </div>
                <div class='box-body'>

                    <form method=POST
action='\$aksi?module=histori&act=input_histori'
enctype='multipart/form-data' class='form-horizontal'>

                        <div
class='form-group'>
                            <label
class='col-sm-2 control-label'>Kategori Proyek</label>
                            <div
class='col-sm-6'>
                                <input type=text name='nama_histori' class='form-
control' required='required'>
                            </div>
                    </div>

```

```

</div>

<div
class='form-group'>
<label
class='col-sm-2 control-label'>Keterangan</label>
<div
class='col-sm-9'>
<textarea name='ket_histori' class='form-control'
rows='3'></textarea>
</div>
</div>

<div
class='buttons'>
<input
class='btn btn-primary' type='submit' value='SIMPAN'>
<input
class='btn btn-danger' type='button' value='BATAL'
onclick=self.history.back()>
</div>
</form>

</div>

</div>";

break;

case "edit":
    $edit=mysql_query("SELECT * FROM histori WHERE
id_histori='$_GET[id]'");
    $r=mysql_fetch_array($edit);

    echo "

```

```

        <div class='box box-danger box-solid'>
            <div class='box-header with-border'>
                <h3 class='box-title'>EDIT
KATEGORI</h3>
                <div class='box-tools pull-
right'>
                    <button class='btn btn-
box-tool' data-widget='collapse'><i class='fa fa-
minus'></i></button>
                </div><!-- /.box-tools -->
            </div>
            <div class='box-body'>
                <form method=POST
method=POST
action=$aksi?module=histori&act=update_histori
enctype='multipart/form-data' class='form-horizontal'>
                    <input
type=hidden name=id value='$r[id_histori]'>
                    <div
class='form-group'>
                        <label
class='col-sm-2 control-label'>Nama Kategori</label>
                        <div
class='col-sm-4'>
                            <input type=text name='nama_histori' class='form-
control' required='required' value='$r[nama_histori]'>
                        </div>
                    </div>
                    </div>
                    <div
class='form-group'>
                        <label
class='col-sm-2 control-label'>Keterangan</label>

```

```

class='col-sm-9'>
    <textarea name='ket_histori' class='form-control'
rows='3'>$r[ket_histori]</textarea>
</div>
</div>
<div
class='buttons'>
    <input
class='btn btn-primary' type='submit' value='EDIT'>
    <input
class='btn btn-danger' type='button' value='BATAL
onclick=self.history.back()'>
</div>
</form>
</div>
</div>";
break;
}
}
?>

```

- **Kelas**

```

<?php
session_start();

```



```
?>
```

- **Laporan Hasil**

```
<?php
include "../.../configurasi/koneksi.php";
require("../.../assets/pdf/fpdf.php");
include "../.../configurasi/fungsi_indotgl.php";

$pdf = new FPDF("P","cm","A4");

$pdf->SetMargins(2,1,1);
$pdf->AliasNbPages();
$pdf->AddPage();

$stampil_dp = mysql_query("SELECT * FROM data_pasien
WHERE unik_pasien = '$_GET[kd_proses]' ORDER BY
id_pasien ASC");
$rx=mysql_fetch_array($stampil_dp);

$pdf->ln(0);
$pdf->SetFont('Arial','B',11);
$pdf->Cell(0,0,'HASIL PROSES NAIVE BAYES',0,0,'C');

//KIRI 1
$pdf->ln(1.5);
$pdf->SetFont('Arial','',10);
$pdf->Cell(3,0,'Kode Proses',0,0,'L');
$pdf->Cell(0.5,0,':',0,0,'L');
$pdf->SetFont('Arial','',10);
$pdf->Cell(1,0,$rx['unik_pasien'],0,0,'L');

$pdf->ln(0.5);
$pdf->SetFont('Arial','',10);
$pdf->Cell(3,0,'Nama Pasien',0,0,'L');
$pdf->Cell(0.5,0,':',0,0,'L');
$pdf->SetFont('Arial','',10);
$pdf->Cell(1,0,$rx['nama_pasien'],0,0,'L');
```



```

$pdf->ln(0.5);
$pdf->SetFont('Arial','',10);
$pdf->Cell(3,0,'Usia Pasien',0,0,'L');
$pdf->Cell(0.5,0,':',0,0,'L');
$pdf->SetFont('Arial','',10);
$pdf->Cell(1,0,$rx['usia_pasien']." Tahun",0,0,'L');

$pdf->ln(1);
$pdf->SetFont('Arial','B',10);
$pdf->Cell(25.5,0.7,"DATA AWAL [BPM SENSOR]",0,10,'L');
$pdf->ln(0);
$pdf->SetFont('Arial','B',9);
$pdf->Cell(1, 0.8, 'No', 1, 0, 'C');
$pdf->Cell(3, 0.8, 'Kelas', 1, 0, 'L');
$pdf->Cell(12.5, 0.8, 'BPM', 1, 1, 'C');
$pdf->SetFont('Arial','',9);
$no1=1;
$query1=mysql_query("SELECT * FROM hsl_bpm WHERE unik =
'$_GET[kd_proses]' ORDER BY id ASC");
while($r1=mysql_fetch_array($query1)){

    $pdf->Cell(1, 0.8, $no1 , 1, 0, 'C');
    $pdf->Cell(3, 0.8, $r1['kelas_bpm'], 1, 0,'L');
    $pdf->Cell(12.5, 0.8, $r1['nilai_bpm'],1, 1, 'C');

    $no1++;
}

$pdf->ln(0.5);
$pdf->SetFont('Arial','B',10);
$pdf->Cell(25.5,0.7,"MEAN",0,10,'L');
$pdf->ln(0);
$pdf->SetFont('Arial','B',9);
$pdf->Cell(1, 0.8, 'No', 1, 0, 'C');
$pdf->Cell(3, 0.8, 'Kelas', 1, 0, 'L');
$pdf->Cell(12.5, 0.8, 'Mean', 1, 1, 'C');
$pdf->SetFont('Arial','',9);
$no2=1;

```

```

$query2=mysql_query("SELECT * FROM mean WHERE
unik_pasien = '$_GET[kd_proses]' ORDER BY id_mean
ASC");
while($r2=mysql_fetch_array($query2)){

    $pdf->Cell(1, 0.8, $no2 , 1, 0, 'C');
    $pdf->Cell(3, 0.8, $r2['kelas'],1, 0, 'L');
    $pdf->Cell(12.5, 0.8, $r2['n_average'], 1, 1,'C');

    $no2++;
}

$pdf->ln(0.5);
$pdf->SetFont('Arial','B',10);
$pdf->Cell(25.5,0.7,"STANDAR DEVIASI
[POPULASI]",0,10,'L');
$pdf->ln(0);
$pdf->SetFont('Arial','B',9);
$pdf->Cell(1, 0.8, 'No', 1, 0, 'C');
$pdf->Cell(3, 0.8, 'Kelas', 1, 0, 'L');
$pdf->Cell(2, 0.8, 'xi', 1, 0, 'C');
$pdf->Cell(3.5, 0.8, 'x-', 1, 0, 'C');
$pdf->Cell(3.5, 0.8, 'xi - x-', 1, 0, 'C');
$pdf->Cell(3.5, 0.8, '(xi - x-)2', 1, 1, 'C');
$pdf->SetFont('Arial','',9);
$no3=1;
$query3=mysql_query("SELECT * FROM standar_deviiasi
WHERE unik_pasien = '$_GET[kd_proses]' ORDER BY id_sd
ASC");
while($r3=mysql_fetch_array($query3)){

    $pdf->Cell(1, 0.8, $no3 , 1, 0, 'C');
    $pdf->Cell(3, 0.8, $r3['kelas_deviiasi'],1, 0, 'L');
    $pdf->Cell(2, 0.8, $r3['n_bpm'],1, 0, 'C');
    $pdf->Cell(3.5, 0.8, $r3['n_average'],1, 0, 'C');
    $pdf->Cell(3.5, 0.8, $r3['bpm_min_average'],1, 0,
'C');
    $pdf->Cell(3.5, 0.8, $r3['bpm_min_average_pdua'], 1,
1,'C');

```

```

    $no3++;
}

$pdf->SetFont('Arial','',9);
$pdf->Cell(9.5, 1.6, 'HASIL', 1, 0, 'C');
$pdf->Cell(3.5, 0.8, 'NORMAL', 1, 0, 'R');
$pdf->Cell(3.5, 0.8, $rx['n_deviiasi_normal'], 1, 1,
'C');
$pdf->SetX(11.5);
$pdf->Cell(3.5, 0.8, 'TIDAK NORMAL', 1, 0, 'R');
$pdf->Cell(3.5, 0.8, $rx['n_deviiasi_tdknormal'], 1, 1,
'C');

$pdf->ln(0.5);
$pdf->SetFont('Arial','B',10);
$pdf->Cell(25.5,0.7,"PROBABILITAS",0,10,'L');
$pdf->ln(0);
$pdf->SetFont('Arial','B',9);
$pdf->Cell(1, 0.8, 'No', 1, 0, 'C');
$pdf->Cell(3, 0.8, 'Kelas', 1, 0, 'L');
$pdf->Cell(12.5, 0.8, 'Probabilitas', 1, 1, 'C');
$pdf->SetFont('Arial','',9);
$no4=1;
$query2=mysql_query("SELECT * FROM probabilitas WHERE
unik_pasien = '$_GET[kd_proses]' ORDER BY
id_probabilitas ASC");
while($r4=mysql_fetch_array($query2)){

    $pdf->Cell(1, 0.8, $no4 , 1, 0, 'C');
    $pdf->Cell(3, 0.8, $r4['kelas_probabilitas'],1, 0,
'L');
    $pdf->Cell(12.5, 0.8, $r4['n_probabilitas'], 1,
1,'C');

    $no4++;
}

```

```

$pdf->ln(0.5);
$pdf->SetFont('Arial','B',10);
$pdf->Cell(25.5,0.7,"GAUSIAN",0,10,'L');
$pdf->ln(0);
$pdf->SetFont('Arial','B',9);
$pdf->Cell(1, 0.8, 'No', 1, 0, 'C');
$pdf->Cell(3, 0.8, 'Kelas', 1, 0, 'L');
$pdf->Cell(12.5, 0.8, 'Gaussian', 1, 1, 'C');
$pdf->SetFont('Arial','',9);
$no4=1;
$query2=mysql_query("SELECT * FROM gaussian WHERE
unik_pasien = '$_GET[kd_proses]' ORDER BY id_gaussian
ASC");
while($r4=mysql_fetch_array($query2)){

    $pdf->Cell(1, 0.8, $no4 , 1, 0, 'C');
    $pdf->Cell(3, 0.8, $r4['kelas_gaussian'],1, 0, 'L');
    $pdf->Cell(12.5, 0.8, $r4['n_gaussian'], 1, 1,'C');

    $no4++;
}

$pdf->ln(0.5);
$pdf->SetFont('Arial','B',10);
$pdf->Cell(25.5,0.7,"Kesimpulan hasil pengujian BPM
Anda adalah ".$r4['kesimpulan'].","",0,10,'L');

$pdf->Output("laporan_hasil.pdf","I");

?>

```

- **Aksi Profile**

```

<?php
session_start();

```

```

if (empty($_SESSION['username']) AND
empty($_SESSION['passuser'])) {
    echo "<link href='style.css' rel='stylesheet'
type='text/css'>
    <center>Untuk mengakses modul, Anda harus login <br>";
    echo "<a
href=../../index.php><b>LOGIN</b></a></center>";
}
else{
include "../../configurasi/koneksi.php";
include "../../configurasi/fungsi_thumb.php";
include "../../configurasi/library.php";

$module=$_GET['module'];
$act=$_GET['act'];

        mysql_query("UPDATE admin SET username
        =
        '$_POST[username]',
        password
        = '$_POST[password]',

nama_lengkap = '$_POST[nama_lengkap]'
        WHERE id_admin
        =
        '3'");

    echo "<script>alert('Ubah data
berhasil');window.location='../../media_admin.php?modul
e=profil'</script>";

}

?>

```

- **Profile**

```

<?php
session_start();
if (empty($_SESSION['username']) AND
empty($_SESSION['passuser'])) {

```

```

        echo "<link href=../css/style.css rel=stylesheet
type=text/css>";
        echo "<div class='error msg'>Untuk mengakses Modul
anda harus login.</div>";
    }
    else{

include "../..../configurasi/class_paging.php";

switch($_GET[act]){

    default:

        $edit=mysql_query("SELECT * FROM admin");
        $r=mysql_fetch_array($edit);

        ?>

                <div class="box box-danger box-solid">
                    <div class="box-header with-border">
                        <h3 class="box-
title">PROFIL</h3>
                        <div class="box-tools pull-
right">
                            <button class="btn btn-
box-tool" data-widget="collapse"><i class="fa fa-
minus"></i></button>
                                </div><!-- /.box-tools -->
                            </div>
                        <div class="box-body">
                            <form method="POST"
action="modul/mod_profil/aksi_profil.php?module=profil&
act=ubah_profil" enctype="multipart/form-data"
class="form-horizontal">
                                <input
type="hidden" name="id_adminx" value="<?php
$r['id_admin']?>">

```

```

<div
class="form-group">
<label
class="col-sm-2 control-label">Nama Lengkap</label>
<div
class="col-sm-4">
<input type="text" name="nama_lengkapx" class="form-
control" value="<?php echo $r['nama_lengkap']?>">
</div>
</div>
<div
class="form-group">
<label
class="col-sm-2 control-label">Username</label>
<div
class="col-sm-4">
<input type="text" name="usernamex" class="form-
control" value="<?php echo $r['username']?>">
</div>
</div>
<div
class="form-group">
<label
class="col-sm-2 control-label">Password</label>
<div
class="col-sm-4">
<input type="text" name="passwordx" class="form-
control" value="<?php echo $r['password']?>">

```

```

</div>
</div>
<div
class="buttons">
<input
class="btn btn-primary" type="submit" value="UBAH">
<a class ='btn
btn-danger' href='?module=home'>KEMBALI</a>
</div>
</form>
</div>
</div>
<?php
break;
case "tambah":
echo "
<div class='box box-danger box-solid'>
<div class='box-header with-border'>
<h3 class='box-title'>TAMBAH
KATEGORI</h3>
<div class='box-tools pull-
right'>
<button class='btn btn-
box-tool' data-widget='collapse'><i class='fa fa-
minus'></i></button>
</div><!-- /.box-tools -->
</div>
<div class='box-body'>

```



```

                                <form method=POST
action='\$aksi?module=profil&act=input_profil'
enctype='multipart/form-data' class='form-horizontal'>

                                <div
class='form-group'>
                                <label
class='col-sm-2 control-label'>Kategori Proyek</label>

                                <div
class='col-sm-6'>

                                <input type=text name='nama_profil' class='form-
control' required='required'>

                                </div>

                                </div>

                                <div
class='form-group'>
                                <label
class='col-sm-2 control-label'>Keterangan</label>

                                <div
class='col-sm-9'>

                                <textarea name='ket_profil' class='form-control'
rows='3'></textarea>

                                </div>

                                </div>

                                <div
class='buttons'>
                                <input
class='btn btn-primary' type=submit value=SIMPAN>
                                <input
class='btn btn-danger' type=button value=BATAL
onclick=self.history.back()>

```



```

<label
class='col-sm-2 control-label'>Nama Kategori</label>

<div
class='col-sm-4'>

    <input type='text' name='nama_profil' class='form-
control' required='required' value='{$nama_profil}'>

</div>

</div>

<div
class='form-group'>

<label
class='col-sm-2 control-label'>Keterangan</label>

<div
class='col-sm-9'>

    <textarea name='ket_profil' class='form-control'
rows='3'>{$r[ket_profil]}</textarea>

</div>

</div>

<div
class='buttons'>

    <input
class='btn btn-primary' type='submit' value=EDIT>
    <input
class='btn btn-danger' type='button' value=BATAL
onclick=self.history.back()>

</div>
</form>

</div>

</div>";

```

```
        break;

    }

}

?>
```

2. Arduino

- **Sensor**

```
#include <SoftwareSerial.h>

SoftwareSerial mySerial(14,12);

void setup(){
    Serial.begin(9600);
    mySerial.begin(9600);

    pinMode(5, INPUT);
    pinMode(4, INPUT);
}

void loop() {
    if((digitalRead(5) == 1) || (digitalRead(4) == 1)){
        Serial.println('!');

        mySerial.print('!');
        mySerial.print(',');
        mySerial.print('A');
        mySerial.print('\n');
    }
    else{
        Serial.println(analogRead(A0));

        mySerial.print(analogRead(A0));
```

```
        mySerial.print(',');
        mySerial.print('B');
        mySerial.print('\n');
    }
    delay(100);
}
```

- **LCD**

```
#include "ThingsBoard.h"
#include <ESP8266WiFi.h>
#include <stdlib.h>
#include <ESP8266HTTPClient.h>
#include <PubSubClient.h>
#include <SoftwareSerial.h>
#include <Wire.h>
#include <LiquidCrystal_I2C.h>
#include <StringSplitter.h>

#define WIFI_AP            "AlfaFamily"
#define WIFI_PASSWORD     "AlfasMomPrivate"

#define TOKEN
"aRDDw6CzmdkaDHDC1w6z"//"q0ZEUU8yxzQlpzyicqsr"
#define THINGSBOARD_SERVER "demo.thingsboard.io"

const char* host = "192.168.18.25";

#define SERIAL_DEBUG_BAUD 115200
WiFiClient espClient;
ThingsBoard tb(espClient);
PubSubClient client(espClient);
int status = WL_IDLE_STATUS;

SoftwareSerial mySerial(12,14);
LiquidCrystal_I2C lcd(0x27, 16, 2);

String incomingByte;
String buff[3];
```

```
char msg[50];

int UpperThreshold = 1000;
int LowerThreshold = 20;

bool IgnoreReading = false;
bool FirstPulseDetected = false;

unsigned long FirstPulseTime = 0;
unsigned long SecondPulseTime = 0;
unsigned long PulseInterval = 0;

int heartRate;

void setup() {
  Serial.begin(9600);
  mySerial.begin(9600);

  WiFi.begin(WIFI_AP, WIFI_PASSWORD);
  InitWiFi();

  lcd.begin();
  interruptSetup();
  client.setServer(host, 1883);
  Serial.println("Hello World");
}

void servreconnect() {
  while (!client.connected()) {
    Serial.print("Attempting MQTT connection...");
    if (client.connect("ESP8266Client")) {
      Serial.println("connected");
    } else {
      Serial.print("failed, rc=");
      Serial.print(client.state());
      Serial.println(" try again in 5 seconds");
      delay(1000);
    }
  }
}
```

```

    }
}

void loop() {
    if (WiFi.status() != WL_CONNECTED) {
        reconnect();
    }

    if (!tb.connected()) {
        Serial.print("Connecting to: ");
        Serial.print(THINGSBOARD_SERVER);
        Serial.print(" with token ");
        Serial.println(TOKEN);
        if (!tb.connect(THINGSBOARD_SERVER, TOKEN)) {
            Serial.println("Failed to connect");
            return;
        }
    }

    if (!client.connected()) {
        servreconnect();
    }
    client.loop();

    if(mySerial.available()>1){
        incomingByte=mySerial.readStringUntil('\n');
        Serial.print("DAT:");Serial.println(incomingByte);

        StringSplitter *splitter = new
StringSplitter(incomingByte, ',',2);
        int itemCount = splitter->getItemCount();
        for(int i = 0; i<itemCount; i++){
            String item = splitter->getItemAtIndex(i);
            buff[i] = splitter->getItemAtIndex(i);

        lcd.setCursor(4,0);lcd.print(buff[0].toInt());lcd.print
("  ");
    }
}

```

```

    heartRate = readHR(buff[0].toInt());

    tb.sendTelemetryInt("ADC", buff[0].toInt());
    tb.sendTelemetryInt("HR", heartRate);

    lcd.setCursor(0,0);lcd.print("ADC:");
    lcd.setCursor(0,1);lcd.print("HR:");
    lcd.setCursor(4,1);lcd.print(heartRate);
lcd.print(" ");
    lcd.setCursor(8,1);lcd.print("Bpm"); lcd.print("
");

    }

    tb.loop();
    //loop();
}

void InitWiFi(){
    Serial.println("Connecting to AP ...");

    WiFi.begin(WIFI_AP, WIFI_PASSWORD);
    while (WiFi.status() != WL_CONNECTED) {
        delay(500);
        Serial.print(".");
    }
    Serial.println("Connected to AP");
}

void reconnect() {
    status = WiFi.status();
    if ( status != WL_CONNECTED) {
        WiFi.begin(WIFI_AP, WIFI_PASSWORD);
        while (WiFi.status() != WL_CONNECTED) {
            delay(500);
            Serial.print(".");
        }
    }
}

```



```

        Serial.println("Connected to AP");
    }
}

void interruptSetup() {
}

int readHR(int infuse){
    Serial.print("INPUT HR:");
    Serial.println(infuse);

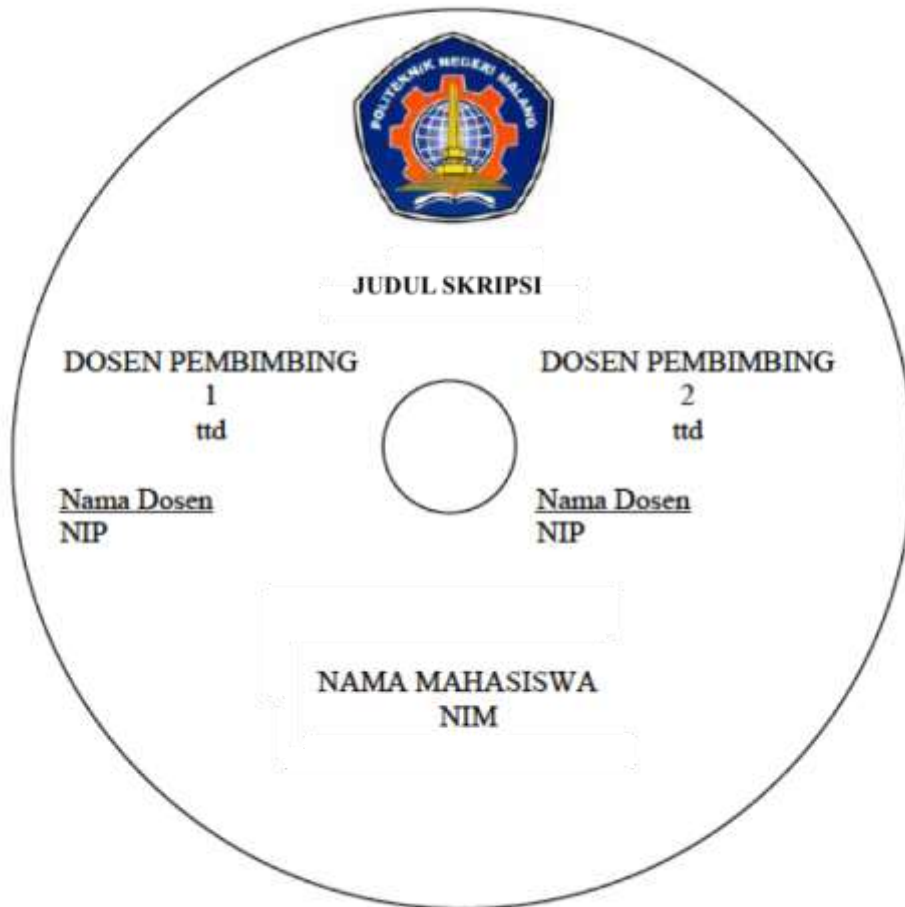
    int BPM = 0;
    if(infuse >=UpperThreshold && IgnoreReading ==
false){
        if(FirstPulseDetected == false){
            FirstPulseTime = millis();
            FirstPulseDetected = true;
        }
        else{
            SecondPulseTime = millis();
            PulseInterval = SecondPulseTime - FirstPulseTime;
            FirstPulseTime = SecondPulseTime;
        }
        IgnoreReading = true;
    }
    if(infuse < LowerThreshold){
        IgnoreReading = false;
    }

    BPM = (1.0/PulseInterval) * 60.0 * 1000;
    Serial.print("BPM:");
    Serial.println(BPM);

    //Proses pengiriman ke sever mqtt local
    sprintf(msg, "%ld", BPM);
    client.publish("Jantung", msg);

    return BPM;
}

```

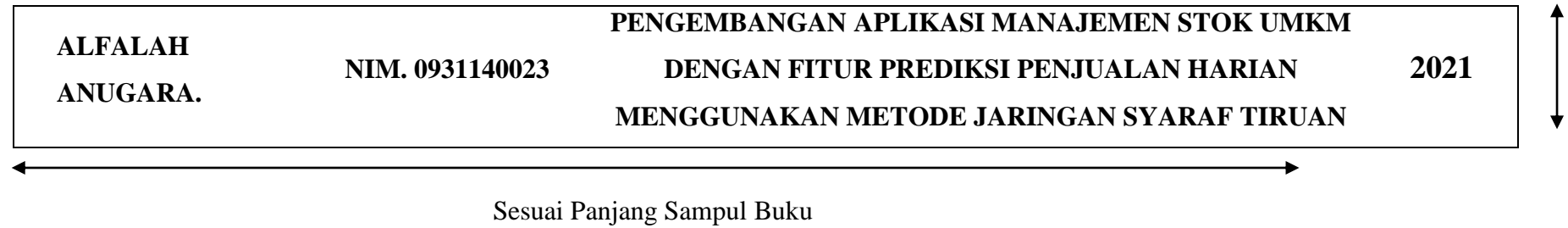



Lampiran 17. Format Cover CD

Lampiran tidak memiliki nomor halaman

Format Punggung Halaman Sampul (hard cover)

Sesuai Tebal Buku



Lampiran 18. Contoh Punggung Halaman Sampul (*Hard Cover*)

