

LAMPIRAN

FOTO PENGUJIAN

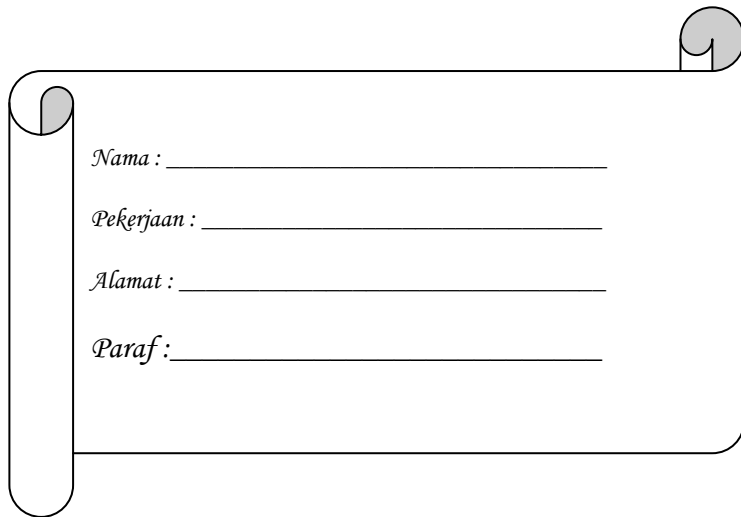


FORM QUESIONER 1

WEB INTERAKTIF PANDUAN REPARASI TELEVISI BERWARNA BERBASIS CMS JOOMLA DAN JAVA FX

-
1. Menurut anda apakah tampilan website www.cahyowibowo.com menarik?
 - a. Sangat menarik
 - b. Menarik
 - c. Cukup
 - d. Kurang
 2. Menurut anda apakah JDK linux dan windows yang disediakan dan dapat di download oleh user sudah membantu ?
 - a. Sangat membantu
 - b. Membantu
 - c. Cukup
 - d. Kurang
 3. Menurut anda apakah halaman persyaratan untuk kebutuhan sistem operasi mudah dipahami ?
 - a. Sangat mudah
 - b. Mudah
 - c. Cukup
 - d. Kurang
 4. Menurut anda apakah tampilan awal template Joomla sudah interaktif ?
 - a. Sangat interaktif
 - b. Interaktif
 - c. Cukup
 - d. Kurang
 5. Apakah alamat www.cahyowibowo.com menurut anda mudah di ingat ?
 - a. Sangat Mudah
 - b. Mudah
 - c. Cukup
 - d. Sulit
 6. Menurut anda apakah akses untuk proses loading dari halaman front end Joomla ke program JavaFX cepat ?
 - a. Sangat Cepat
 - b. Cepat
 - c. Cukup
 - d. Lambat
 7. Menurut anda apakah website ini dapat membantu anda memahami fungsi dan cara kerja tiap blok rangkaian televisi ?
 - a. Sangat membantu
 - b. Membantu
 - c. Cukup
 - d. Kurang

8. Menurut Anda apakah website ini dapat membantu anda mengetahui komponen-komponen pada televisi ?
- a. Sangat membantu c. Cukup
b. Membantu d. Kurang
9. Menurut Anda apakah website ini dapat membantu anda mengetahui peralatan-peralatan apa saja yang harus diperlukan dalam perbaikan televisi berwarna ?
- a. Sangat membantu c. Cukup
b. Membantu d. Kurang
10. Apakah anda merasa puas dengan informasi yang ada di website ini ?
- a. Sangat Puas c. Cukup
b. Puas d. Kurang



Nama : _____

Pekerjaan : _____

Alamat : _____

Paraf: _____

FORM QUESIONER

PENILAIAN USER DARI PANDUAN REPARASI TELEVISI BERWARNA BERBASIS WEBSITE vs BUKU

Buku yang digunakan sebagai bahan perbandingan pada pengujian ini berjudul :

1. Teknik Reparasi Televisi Berwarna, Karya Reka rio dan Yoshikatsu Sawamura.
2. Mencari dan Memperbaiki Kerusakan pada TV Berwarna, Karya Sofyan.

Pertanyaan :

1. Saat anda membaca teori pada buku dan website tersebut, yang meliputi perkembangan televisi, penjelasan mengenai blok rangkaian, komponen pada televisi berwarna, peralatan yang diperlukan dalam perbaikan, hingga teori perbaikannya. Menurut anda dari segi pemahaman, bentuk panduan reparasi televisi berwarna berbasis website tersebut lebih mudah mana bila dibanding dengan buku ?

Berikan alasannya : _____

2. Bila dibandingkan saat anda membaca buku dan website tersebut seperti yang telah disebutkan diatas. Menurut anda dari segi kelengkapan isinya, antara website dengan buku panduan reparasi televisi berwarna tersebut lebih lengkap mana ?

Berikan alasannya : _____

3. Setelah anda membaca teori pada website dan buku tersebut, kemudian anda melakukan praktek yang berupa pemeriksaan komponen ataupun tindakan perbaikan pada televisi berwarna. Menurut anda, anda lebih terbantu yang mana antara teori pada website dan teori pada buku ?

Berikan alasannya : _____

Daftar Script

Index.php

```
<?php
/**
 * @copyright Copyright (C) 2005 - 2010 Open Source Matters. All rights
reserved.
 * @license GNU/GPL, see LICENSE.php
 * Joomla! is free software. This version may have been modified pursuant
 * to the GNU General Public License, and as distributed it includes or
 * is derivative of works licensed under the GNU General Public License or
 * other free or open source software licenses.
 * See COPYRIGHT.php for copyright notices and details.
 */
// no direct access
defined( '_JEXEC' ) or die( 'Restricted access' );
?>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="<?php echo $this-
>language; ?>" lang="<?php echo $this->language; ?>" >

<html>
<head>
<meta http-equiv="Content-Language" content="en-us">
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

<title>
Teknik Televisi Berwarna
</title>

<meta name="Keywords" content="cahyowibowo.com, tv, crt, lcd, plasma, pdp,
service">
<meta name="Description" content="pahamkah kamu tentang teknologi penampil
crt, lcd, plasma ?">
<link rel="stylesheet" href="<?php echo $this->baseurl
?>/templates/cahyo_tmp/css/style.css" type="text/css">

<script language="Javascript"><!--
var tl=new Array(
"\nSelamat Datang di website ini.",
"\n      Halaman kedua website, anda akan diarahkan ke halaman multimedia
berbasis JavaFX. Langkah-langkah yang harus anda lakukan untuk menampilkan
halaman ini pada browser anda, antara lain :",
"\n1. Browser anda harus kompatibel dengan java script. misal : opera mini,
internet explore, mozilla firefox, dan lain-lain.",
"\n2. Install JDK pada Operating System anda. untuk Windows Family install
JDK.exe dan untuk Linux Family install JDK.bin",
"\n3. Jika Browser dan Operating System anda sudah siap, masukkan password :
oke_siap lalu tekan enter atau klik login.",
"\n4. Tunggu beberapa menit untuk proses downloading file ke browser anda.
Jika tidak berhasil, cari penyebabnya dan cobalah kembali.",
```

```

"\n5. Terimakasih sudah berkunjung.. (^_^)" // Do not add a comma (,) at the
end of the last row of text.
);

var speed=1;
var index=0; text_pos=0;
var str_length=t1[0].length;
var contents, row;
function password()
{
  contents='';
  row=Math.max(0,index-9);
  while(row<index)
    contents += t1[row++] + '\r\n';
  document.forms[0].elements[0].value = contents +
t1[index].substring(0,text_pos) + "_";
  if(text_pos++==str_length)
  {
    text_pos=0;
    index++;
    if(index!=t1.length)
    {
      str_length=t1[index].length;
      setTimeout("password()",2000);
    }
  } else
    setTimeout("password()", speed);
}
//-->
</script>
</head>

<body onload="password()">
<script language="JavaScript">
{
var a="oke_siap";
function check()
{
if (document.a.c.value == a)
{
document.location.href="http://localhost/cahyowibowo.com/templates/cahyo_tmp/
Skripsi/dist/Skripsi.html";
}
else
{
alert ("Ups, ada yang salah. coba lagi dong.");
}
}
}
}
</script>

<h1>
<span onmouseover="_tipon(this)" onmouseout="_tipoff()">
<span class="google_src-text" style="direction: ltr; text-align: left;">
cahyowibowo.com
</span>
</h1>

```

```
<p>
<span onmouseover="_tipon(this)" onmouseout="_tipoff()">
<span class="google-src-text" style="direction: ltr; text-align: left;">
website pembelajaran dan reparasi televisi berwarna
</span>
</p>

<form style="margin-top: -10px;">
<textarea rows="15" cols="155" style="width: 550px; height: 350px;
background: none repeat scroll 0% 0% rgb(0, 0, 0); padding: 30px; font-size:
9pt; font-family: fixedsys, LucidaTerminal, monospace; color: rgb(144, 144,
144); text-align: left; overflow: auto; border: 1px none;">
</textarea>
</form>
</script>

<h1>
<span onmouseover="_tipon(this)" onmouseout="_tipoff()">
<span class="google-src-text" style="direction: ltr; text-align: left;">
Bantuan :
</span>
</h1>

<br>
<br>

<span onmouseover="_tipon(this)" onmouseout="_tipoff()">
<span class="google-src-text" style="direction: ltr; text-align: left;">
untuk download JDK.exe for windows,
<a href="download/JDK.exe">
klik disini aja
</a>
</span>

<p>
<span onmouseover="_tipon(this)" onmouseout="_tipoff()">
<span class="google-src-text" style="direction: ltr; text-align: left;">
untuk download JDK.bin for linux,
<a href="download/JDK.bin">
klik disini aja
</a>
</span>
</p>

<br>
<br>

<div align="center">
<center>
<table style="border-collapse: collapse;" id="AutoNumber4" width="15%"
border="1" bordercolor="#111111" cellspacing="1">
<tbody>
<tr>
<td width="100%">
<p align="center">
<font face="Tahoma" size="1">
```



```

<br>
</font>

<span onmouseover="_tipon(this)" onmouseout="_tipoff()">
<span class="google-src-text" style="direction: ltr; text-align: left;">
<font face="Tahoma" size="2">
Password:
</font>
</span>
</p>

<form name="a" action="javascript:check() ">
<p align="center">
<input value="" name="c" maxlength="25" size="16" type="login">

<br>
<br>

<input value="Log In" type="submit">
</p>
</form>
</td>
</tr>
</tbody>
</table>
</center>
</div>
</style>

<br>
<br>

<center>
<span onmouseover="_tipon(this)" onmouseout="_tipoff()">
<span class="google-src-text" style="direction: ltr; text-align: left;">
<a href="#">
copyright © 2011 || cahyowibowo.com || back to top
</a>
</span>
</center>
</body>
</html>

```

TemplateDetails.xml

```

<?xml version="1.0" encoding="utf-8"?>
<!DOCTYPE install PUBLIC "-//Joomla! 1.5//DTD template 1.0//EN"
"http://www.joomla.org/xml/dtd/1.5/template-install.dtd">
<install version="1.5" type="template">
  <name>cahyo_tmp</name>
  <creationDate>30 mei 2011</creationDate>
  <author>cahyo wibowo</author>
  <authorEmail>cahaya.averroes@gmail.com</authorEmail>
  <authorUrl>http://www.cahyowibowo</authorUrl>
  <copyright>2011</copyright>
  <license>skripsi</license>
  <version>1.0</version>

```

```

<description>template modifikasi 2011</description>
<files>
  <filename>index.php</filename>
  <filename>favicon.ico</filename>
  <filename>templateDetails.xml</filename>
  <filename>template_thumbnail.png</filename>
  <filename>params.ini</filename>
  <filename>css/index.html</filename>
  <filename>css/style.css</filename>
  <filename>Skripsi/dist/Skripsi.html</filename>
  <filename>Skripsi/dist/Skripsi.jar</filename>
<filename>Skripsi/dist/Skripsi.jar.pack.gz</filename>
<filename>Skripsi/dist/Skripsi.jnlp</filename>
<filename>Skripsi/dist/Skripsi_browser.jnlp</filename>
<filename>Skripsi/dist/3.swf</filename>
</files>
</install>

```

Style.css

```

body {
width: 600px;
background: #000;
padding:30px;
font-size: 9pt;
font-family: fixedsys, LucidaTerminal, monospace;
color: #FFFFFF;
text-align: left;
overflow:auto;
border: 5px solid #FFFFFF;
margin-left:200px;
margin-top:50px;
margin-bottom:50px;
}
h1 {margin-bottom:-10px;margin-top:-10px;}

```

Skripsi.html

```

<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
<title>Skripsi</title>
<style type="text/css">
body{
background:#fafd08;
}
</style>
</head>
<body>
<p align="center">
  <object classid="clsid:D27CDB6E-AE6D-11cf-96B8-444553540000"
    codebase="http://download.macromedia.com/pub/shockwave/cabs/flash/swflash.cab#version=7,0,19,0"
    title="" width="800" height="70">
    <param name="movie" value="Animasi/Hal 8.swf">
    <param name="quality" value="high">

```

```
<embed src="3.swf" quality="high" pluginspage="http://www.macromedia.com/go/getflashplayer"
  type="application/x-shockwave-flash" width="800" height="70">
</object>
</p>
<script src="http://dl.javafx.com/1.3/dtfx.js"></script>
<script>
  javafx(
    {
      archive: "Skripsi.jar",
      draggable: true,
      width: 1040,
      height: 580,
      code: "skripsi.Main",
      name: "Skripsi"
    }
  );
</script>
<br>
<span class="google-src-text" style="direction: ltr; text-align: left;">
  untuk konsultasi dengan kami, grup facebook sudah bisa dikunjungi.
  <a href="http://www.facebook.com/groups/191494317574193?ap=1" target="_blank">
  klik disini
</a>
</span>
<br>
<br>
Video Perbaikan dengan Kerusakan Garis Vertikal 1
<br>
<br>
<iframe width="560" height="349" src="http://www.youtube.com/embed/FmAAvktKxu0" frameborder="0"
  allowfullscreen></iframe>
<br>
<br>
<br>
Video Perbaikan dengan Kerusakan Garis Vertikal 2
<br>
<br>
<iframe width="560" height="349" src="http://www.youtube.com/embed/BrH6JgVwBQ" frameborder="0"
  allowfullscreen></iframe>
<br>
<br>
<br>
Video Contoh Gambar Raster
<br>
<br>
<iframe width="560" height="349" src="http://www.youtube.com/embed/7OWEdxSdjzk" frameborder="0"
  allowfullscreen></iframe>
<br>
<br>
<br>
Video Cara Melepas Kabel Flyback
<br>
<br>
<iframe width="560" height="349" src="http://www.youtube.com/embed/UsL-rAUKswQ" frameborder="0"
  allowfullscreen></iframe>
<br>
```

```

<br>
<br>
Video Cara Mengecek Transistor
<br>
<br>
<iframe width="560" height="349" src="http://www.youtube.com/embed/YsJXFLnA62s" frameborder="0"
    allowfullscreen></iframe>
<br>
<br>
<br>
Video Cara Mengecek Kapasitor
<br>
<br>
<iframe width="560" height="349" src="http://www.youtube.com/embed/U4tnHA0phcc" frameborder="0"
    allowfullscreen></iframe>
</body>
</html>

```

Skripsi.jnlp

```

<?xml version="1.0" encoding="UTF-8"?>
<jnlp spec="1.0+" codebase="http://localhost/cahyowibowo.com/templates/cahyo_tmp/Skripsi/dist/"
    href="Skripsi.jnlp">
  <information>
    <title>Skripsi</title>
    <vendor>cahyo</vendor>
    <homepage href="http://localhost/cahyowibowo.com/templates/cahyo_tmp/Skripsi/dist/">
    <description>Skripsi</description>
    <icon kind="splash" href="http://dl.javafx.com/1.3/splash.png"/>
    <offline-allowed/>
  </information>
  <security>
    <all-permissions/>
  </security>
  <resources>
    <j2se version="1.5+"/>
    <property name="jnlp.packEnabled" value="true"/>
    <property name="jnlp.versionEnabled" value="true"/>
    <extension name="JavaFX Runtime" href="http://dl.javafx.com/1.3/javafx-rt.jnlp"/>
    <jar href="Skripsi.jar" main="true" size="3202957"/>
  </resources>
  <application-desc main-class="com.sun.javafx.runtime.main.Main" progress-
    class="com.javafx.progressbar.ProgressManager">
    <argument>MainJavaFXScript=skripsi.Main</argument>
  </application-desc>
  <update check="always"/>
</jnlp>

```

Skripsi_browser.jnlp

```

<?xml version="1.0" encoding="UTF-8"?>
<jnlp spec="1.0+" codebase="http://localhost/cahyowibowo.com/templates/cahyo_tmp/Skripsi/dist/"
    href="Skripsi_browser.jnlp">
  <information>
    <title>Skripsi</title>
    <vendor>cahyo</vendor>

```

```

    <homepage href="http://localhost/cahyowibowo.com/templates/cahyo_tmp/Skripsi/dist"/>
    <description>Skripsi</description>
    <icon kind="splash" href="http://dl.javafx.com/1.3/splash.png"/>
    <offline-allowed/>
</information>
<security>
    <all-permissions/>
</security>
<resources>
    <j2se version="1.5+"/>
    <property name="jnlp.packEnabled" value="true"/>
    <property name="jnlp.versionEnabled" value="true"/>
    <extension name="JavaFX Runtime" href="http://dl.javafx.com/1.3/javafx-rt.jnlp"/>
    <jar href="Skripsi.jar" main="true" size="3202957"/>
</resources>
<applet-desc name="Skripsi" main-class="com.sun.javafx.runtime.adapter.Applet" progress-
    class="com.javafx.progressbar.ProgressManager" width="1040" height="580">
    <param name="MainJavaFXScript" value="skripsi.Main"/>
</applet-desc>
<update check="always"/>
</jnlp>

```

Main.fx

```

package skripsi;

import javafx.stage.Stage;
import javafx.scene.Scene;
import javafx.stage.StageStyle;
import javafx.scene.paint.Color;

/**
 * @author cahyo
 */

var website: MainFace = MainFace {}

Stage {
    fullScreen: "{__PROFILE__}" != "browser"
    style: StageStyle.UNDECORATED
    scene: Scene {
        width: 1040
        height: 580
        fill: Color.CYAN
        content: [website]
    }
}

```

MainFace.fx

```

package skripsi;

import javafx.scene.image.ImageView;
import javafx.scene.Cursor;
import javafx.scene.image.Image;
import javafx.scene.input.MouseEvent;

```

```

import javafx.scene.CustomNode;
import javafx.scene.Node;
import javafx.scene.Group;
import javafx.scene.text.Text;
import javafx.scene.text.Font;
import javafx.scene.paint.Color;
import javafx.scene.text.TextAlignment;
/**
 * @author cahyo
 */
var menufade2: MenuFade2 = MenuFade2 { visible: false, blocksMouse: true,}
var menufade3: MenuFade3 = MenuFade3 { visible: false, blocksMouse: true,}
var menufade4: MenuFade4 = MenuFade4 { visible: false, blocksMouse: true,}
var menufade5: MenuFade5 = MenuFade5 { visible: false, blocksMouse: true,}
var menufade6: MenuFade6 = MenuFade6 { visible: false, blocksMouse: true,}

public class MainFace extends CustomNode {

var SlidePesan = SlidePesan {
    translateX: 640,
    translateY: 30 };
var background : ImageView = ImageView {
    x: 20;
    y: 20;
    cursor: Cursor.WAIT;
    image: Image { url : "{__DIR__}Menus/background.png"};
}
var ucapan : ImageView = ImageView {
    visible : true;
    x: 640;
    y: 30;
    cursor: Cursor.WAIT;
    image: Image { url : "{__DIR__}Menus/selamatdatang.png"}
    onMouseEntered: function (e: MouseEvent): Void {
        ucapan.image = Image { url : "{__DIR__}Menus/terimakasih.png";}
    }
    onMouseExited: function (e: MouseEvent): Void {
        ucapan.image = Image { url : "{__DIR__}Menus/selamatdatang.png";}
    }
}
var pesan : ImageView = ImageView {
    visible : true;
    x: 930;
    y: 30;
    cursor: Cursor.HAND;
    image: Image { url : "{__DIR__}Menus/pesan.png"}
    onMouseClicked: function (e: MouseEvent): Void {
        SlidePesan.show = not SlidePesan.show;
    }
}
var SlideShow = SlideShow {
    visible : true;
    translateX : 780,
    translateY : 230
    cursor: Cursor.WAIT;
}

```

```

var isi : Text = Text {
    visible : true;
    x: 30, y: 200
    wrappingWidth : 700;
    font : Font.font("Calibri", 15);
    fill : Color.BLACK;
    textAlignment : TextAlignment.LEFT;
    content :
    "\nTaukah kamu, Bahwa :\"
    "\n\"
    "\n\"
    "\n\"
    "\n\"
    "\nmampu terlihat oleh mata.\"
    "\n\"
    "\n\"
    "\n\"
    "\nmuatan listrik yang masih tersimpan di tabung gambar.\"
    "\n\"
    "\n\"
    "\n\"
    "\ndalam televisi, kesempurnaan titik sambung yang sesuai prosedur.\"
    "\n\"
    "\n\"
    "\n\"
    "\nyaitu dengan sedikit mengeser cepat magnet diatas warna dominan itu \"
    \"kearah luar televisi.\"
}
var isi_2 : Text = Text {
    visible : true;
    x: 30, y: 236
    wrappingWidth : 700;
    font : Font.font("Calibri", 15);
    fill : Color.BLACK;
    textAlignment : TextAlignment.JUSTIFY;
    content :
    "\n1__ Remote televisi menggunakan sensor infra merah untuk mengirimkan \"
    \"sinyal berupa instruksi hingga sampai ke sensor penerima televisi. \"
    \"Ketika tombol remote ditekan, saat itu infra merah dalam keadaan menyala, \"
    \"namun cahayanya tak terlihat atau tak tampak. Dengan bantuan hasil bidikan \"
    \"kamera handphone cahaya tersebut\"
    "\n\"
    "\n\"
    "\n2__ Saat melepas kabel flyback yang menempel di anoda tabung gambar \"
    \"pada televisi CRT, gunakan kabel jamper yang dihubungkan ke ground \"
    \"atau katoda tabung gambar CRT. Hal ini dimaksudkan untuk menghubungsingkatkan \"
    "\n\"
    "\n\"
    "\n3__ Ada beberapa hal yang mempengaruhi kualitas gambar dan suara pada \"
    \"siaran televisi : kemampuan antena menangkap sinyal, lingkungan penerima \"
    \"berada, kebutuhan kabel yang digunakan, kondisi blok tuner dan AGC\"
    "\n\"
    "\n\"
    "\n4__ Elektron tabung gambar CRT sangat peka dengan magnet yang didekatkan. \"
    \"Ketika dijumpai sudut televisi yang kehijau-hijauan atau kemerah-merahan \"
    \"hal itu akan mengganggu tampilan televisi. Cara untuk menghilangkannya \"

```

```

}
//menu kesatu
var beranda : ImageView = ImageView {
    x: 40;
    y: 40;
    cursor: Cursor.HAND;
    image: Image { url : "{__DIR__}Menus/beranda-a.png" }
    onMouseEntered: function (e: MouseEvent): Void {
        beranda.image = Image { url : "{__DIR__}Menus/beranda-b.png";}
    }
    onMouseExited: function (e: MouseEvent): Void {
        beranda.image = Image { url : "{__DIR__}Menus/beranda-a.png";}
    }
    onMouseClicked: function (e: MouseEvent): Void {
        menufade2.visible = false;
        menufade3.visible = false;
        menufade4.visible = false;
        menufade5.visible = false;
        menufade6.visible = false;
        SlideShow.visible = true;
        isi.visible = true;
        isi_2.visible = true;
        ucapan.visible = true;
    }
}
//menu kedua
var televisi : ImageView = ImageView {
    x: 120;
    y: 90;
    cursor: Cursor.HAND;
    image: Image { url : "{__DIR__}Menus/televisi-a.png" }
    onMouseEntered: function (e: MouseEvent): Void {
        televisi.image = Image { url : "{__DIR__}Menus/televisi-b.png";}
    }
    onMouseExited: function (e: MouseEvent): Void {
        televisi.image = Image { url : "{__DIR__}Menus/televisi-a.png";}
    }
    onMouseClicked: function (e: MouseEvent): Void {
        menufade2.visible = true;
        menufade3.visible = false;
        menufade4.visible = false;
        menufade5.visible = false;
        menufade6.visible = false;
        SlideShow.visible = false;
        isi.visible = false;
        isi_2.visible = false;
        ucapan.visible = true;
    }
}
//menu ketiga
var rangkaian : ImageView = ImageView {
    x: 200;
    y: 40;
    cursor: Cursor.HAND;
    image: Image { url : "{__DIR__}Menus/rangkaian-a.png" }

```



```

onMouseEntered: function (e: MouseEvent): Void {
rangkaian.image = Image { url : "{__DIR__}Menus/rangkaian-b.png";}
}
onMouseExited: function (e: MouseEvent): Void {
rangkaian.image = Image { url : "{__DIR__}Menus/rangkaian-a.png";}
}
onMouseClicked: function (e: MouseEvent): Void {
menufade2.visible = false;
menufade3.visible = true;
menufade4.visible = false;
menufade5.visible = false;
menufade6.visible = false;
SlideShow.visible = false;
isi.visible = false;
isi_2.visible = false;
ucapan.visible = true;
}
}
//menu keempat
var komponen : ImageView = ImageView {
x: 280;
y: 90;
cursor: Cursor.HAND;
image: Image { url : "{__DIR__}Menus/komponen-a.png"}
onMouseEntered: function (e: MouseEvent): Void {
komponen.image = Image { url : "{__DIR__}Menus/komponen-b.png";}
}
onMouseExited: function (e: MouseEvent): Void {
komponen.image = Image { url : "{__DIR__}Menus/komponen-a.png";}
}
onMouseClicked: function (e: MouseEvent): Void {
menufade2.visible = false;
menufade3.visible = false;
menufade4.visible = true;
menufade5.visible = false;
menufade6.visible = false;
SlideShow.visible = false;
isi.visible = false;
isi_2.visible = false;
ucapan.visible = true;
}
}
//menu kelima
var peralatan : ImageView = ImageView {
x: 360;
y: 40;
cursor: Cursor.HAND;
image: Image { url : "{__DIR__}Menus/peralatan-a.png"}
onMouseEntered: function (e: MouseEvent): Void {
peralatan.image = Image { url : "{__DIR__}Menus/peralatan-b.png";}
}
onMouseExited: function (e: MouseEvent): Void {
peralatan.image = Image { url : "{__DIR__}Menus/peralatan-a.png";}
}
onMouseClicked: function (e: MouseEvent): Void {
menufade2.visible = false;

```

```

    menufade3.visible = false;
    menufade4.visible = false;
    menufade5.visible = true;
    menufade6.visible = false;
    SlideShow.visible = false;
    isi.visible = false;
    isi_2.visible = false;
    ucapan.visible = true;
    }
}
//menu keenam
var perbaikan : ImageView = ImageView {
    x: 440;
    y: 90;
    cursor: Cursor.HAND;
    image: Image { url : "{__DIR__}Menus/perbaikan-a.png" }
    onMouseEntered: function (e: MouseEvent): Void {
    perbaikan.image = Image { url : "{__DIR__}Menus/perbaikan-b.png";}
    }
    onMouseExited: function (e: MouseEvent): Void {
    perbaikan.image = Image { url : "{__DIR__}Menus/perbaikan-a.png";}
    }
    onMouseClicked: function (e: MouseEvent): Void {
    menufade2.visible = false;
    menufade3.visible = false;
    menufade4.visible = false;
    menufade5.visible = false;
    menufade6.visible = true;
    SlideShow.visible = false;
    isi.visible = false;
    isi_2.visible = false;
    ucapan.visible = false;
    }
}
}
public override function create(): Node {
return Group {
    content: [background, beranda, televisi, rangkaian, komponen, peralatan, perbaikan,
    menufade2, menufade3, menufade4, menufade5, menufade6, SlideShow, isi, ucapan,
    isi_2, pesan, SlidePesan]
}
}
}
}

```

MenuFade2.fx

package skripsi;

```

import javafx.scene.CustomNode;
import javafx.scene.Node;
import javafx.scene.Group;
import javafx.scene.image.ImageView;
import javafx.scene.Cursor;
import javafx.scene.image.Image;
import javafx.scene.input.MouseEvent;

```

```

/**

```

```
* @author cahyo
*/
```

```
public var sejarah: B_Sejarah = B_Sejarah { visible: true, blocksMouse: true, };
public var crt: B_CRT = B_CRT { visible: false, blocksMouse: true, };
public var lcd: B_LCD = B_LCD { visible: false, blocksMouse: true, };
public var pdp: B_PDP = B_PDP { visible: false, blocksMouse: true, };
```

```
public class MenuFade2 extends CustomNode {
```

```
var submenu2a : ImageView = ImageView {
    x: 30;
    y: 200;
    cursor: Cursor.HAND;
    image: Image { url : "{__DIR__}Materi_2/sejarah-1.png" }
    scaleX: 0.9; scaleY: 0.9;
    onMouseEntered: function (e: MouseEvent): Void {
        submenu2a.scaleX = 1.0; submenu2a.scaleY = 1.0;
    }
    onMouseExited: function (e: MouseEvent): Void {
        submenu2a.scaleX = 0.9; submenu2a.scaleY = 0.9;
    }
    onMouseClicked: function (e: MouseEvent): Void {
        sejarah.visible = true;
        crt.visible = false;
        lcd.visible = false;
        pdp.visible = false;
    }
}
```

```
var submenu2b : ImageView = ImageView {
    x: 30;
    y: 270;
    cursor: Cursor.HAND;
    image: Image { url : "{__DIR__}Materi_2/crt-1.png" }
    scaleX: 0.9; scaleY: 0.9;
    onMouseEntered: function (e: MouseEvent): Void {
        submenu2b.scaleX = 1.0; submenu2b.scaleY = 1.0;
    }
    onMouseExited: function (e: MouseEvent): Void {
        submenu2b.scaleX = 0.9; submenu2b.scaleY = 0.9;
    }
    onMouseClicked: function (e: MouseEvent): Void {
        sejarah.visible = false;
        crt.visible = true;
        lcd.visible = false;
        pdp.visible = false;
    }
}
```

```
var submenu2c : ImageView = ImageView {
    x: 30;
    y: 340;
    cursor: Cursor.HAND;
    image: Image { url : "{__DIR__}Materi_2/lcd-1.png" }
    scaleX: 0.9; scaleY: 0.9;
    onMouseEntered: function (e: MouseEvent): Void {
        submenu2c.scaleX = 1.0; submenu2c.scaleY = 1.0;
    }
}
```

```

    }
    onMouseExited: function (e: MouseEvent): Void {
        submenu2c.scaleX = 0.9; submenu2c.scaleY = 0.9;
    }
    onMouseClicked: function (e: MouseEvent): Void {
        sejarah.visible = false;
        crt.visible = false;
        lcd.visible = true;
        pdp.visible = false;
    }
}
var submenu2d : ImageView = ImageView {
    x: 30;
    y: 410;
    cursor: Cursor.HAND;
    image: Image { url : "{__DIR__}Materi_2/pdp-1.png" }
    scaleX: 0.9; scaleY: 0.9;
    onMouseEntered: function (e: MouseEvent): Void {
        submenu2d.scaleX = 1.0; submenu2d.scaleY = 1.0;
    }
    onMouseExited: function (e: MouseEvent): Void {
        submenu2d.scaleX = 0.9; submenu2d.scaleY = 0.9;
    }
    onMouseClicked: function (e: MouseEvent): Void {
        sejarah.visible = false;
        crt.visible = false;
        lcd.visible = false;
        pdp.visible = true;
    }
}

public override function create(): Node {
    return Group {
        content: [sejarah, crt, lcd, pdp,
        submenu2a, submenu2b, submenu2c, submenu2d
        ];
    }
}
}

```

MenuFade3.fx

```

package skripsi;

import javafx.scene.CustomNode;
import javafx.scene.Node;
import javafx.scene.Group;
import javafx.scene.image.ImageView;
import javafx.scene.Cursor;
import javafx.scene.image.Image;
import javafx.scene.input.MouseEvent;

/**
 * @author cahyo
 */

```

```

public var acc: C_ACC = C_ACC { visible: false, blocksMouse: true,};
public var aft: C_AFT = C_AFT { visible: false, blocksMouse: true,};
public var agc: C_AGC = C_AGC { visible: false, blocksMouse: true,};
public var antena: C_Antena = C_Antena { visible: true, blocksMouse: true,};
public var dehorizontal: C_DeHorizontal = C_DeHorizontal { visible: false, blocksMouse: true,};
public var devertikal: C_DeVertikal = C_DeVertikal { visible: false, blocksMouse: true,};
public var dewarna: C_DeWarna = C_DeWarna { visible: false, blocksMouse: true,};
public var detektor55: C_Detektor55 = C_Detektor55 { visible: false, blocksMouse: true,};
public var detektorfm: C_DetektorFM = C_DetektorFM { visible: false, blocksMouse: true,};
public var devideo: C_DeVideo = C_DeVideo { visible: false, blocksMouse: true,};
public var hvreg: C_HvReg = C_HvReg { visible: false, blocksMouse: true,};
public var matrik: C_Matrik = C_Matrik { visible: false, blocksMouse: true,};
public var pefasa: C_PeFasa = C_PeFasa { visible: false, blocksMouse: true,};
public var pngkrominan: C_PngKrominan = C_PngKrominan { visible: false, blocksMouse: true,};
public var pngsuara: C_PngSuara = C_PngSuara { visible: false, blocksMouse: true,};
public var pewarna: C_PeWarna = C_PeWarna { visible: false, blocksMouse: true,};
public var posuplay: C_PoSuplay = C_PoSuplay { visible: false, blocksMouse: true,};
public var siseparator: C_SiSeparator = C_SiSeparator { visible: false, blocksMouse: true,};
public var siwarna: C_SiWarna = C_SiWarna { visible: false, blocksMouse: true,};
public var tuner: C_Tuner = C_Tuner { visible: false, blocksMouse: true,};
public var videoif: C_VideoIF = C_VideoIF { visible: false, blocksMouse: true,};

```

```

public class MenuFade3 extends CustomNode {

```

```

var blokdiagram : ImageView = ImageView {
    x: 40;
    y: 200;
    image: Image { url : "{__DIR__}Materi_3/blok diagram.png" }
}
var submenu3a : ImageView = ImageView {
    x: 220;
    y: 361;
    cursor: Cursor.HAND;
    image: Image { url : "{__DIR__}Materi_3/acc-1.png" }
    scaleX: 0.6; scaleY: 0.6;
    onMouseEntered: function (e: MouseEvent): Void {
        submenu3a.scaleX = 1.0; submenu3a.scaleY = 1.0;
    }
    onMouseExited: function (e: MouseEvent): Void {
        submenu3a.scaleX = 0.6; submenu3a.scaleY = 0.6;
    }
    onMouseClicked: function (e: MouseEvent): Void {
        acc.visible = true;
        aft.visible = false;
        agc.visible = false;
        antena.visible = false;
        dehorizontal.visible = false;
        devertikal.visible = false;
        dewarna.visible = false;
        detektor55.visible = false;
        detektorfm.visible = false;
        devideo.visible = false;
        hvreg.visible = false;
        matrik.visible = false;
        pefasa.visible = false;
        pngkrominan.visible = false;
    }
}

```

```

    pngsuara.visible = false;
    pewarna.visible = false;
    posuplay.visible = false;
    siseparator.visible = false;
    siwarna.visible = false;
    tuner.visible = false;
    videoif.visible = false;
  }
}
var submenu3b : ImageView = ImageView {
  x: 152;
  y: 212;
  cursor: Cursor.HAND;
  image: Image { url : "{__DIR__}Materi_3/aft-1.png"}
  scaleX: 0.7; scaleY: 0.7;
  onMouseEntered: function (e: MouseEvent): Void {
    submenu3b.scaleX = 1.0; submenu3b.scaleY = 1.0;
  }
  onMouseExited: function (e: MouseEvent): Void {
    submenu3b.scaleX = 0.7; submenu3b.scaleY = 0.7;
  }
  onMouseClicked: function (e: MouseEvent): Void {
    acc.visible = false;
    aft.visible = true;
    agc.visible = false;
    antena.visible = false;
    dehorizontal.visible = false;
    devertikal.visible = false;
    dewarna.visible = false;
    detektor55.visible = false;
    detektorfm.visible = false;
    devideo.visible = false;
    hvreg.visible = false;
    matrik.visible = false;
    pefasa.visible = false;
    pngkrominan.visible = false;
    pngsuara.visible = false;
    pewarna.visible = false;
    posuplay.visible = false;
    siseparator.visible = false;
    siwarna.visible = false;
    tuner.visible = false;
    videoif.visible = false;
  }
}
var submenu3c : ImageView = ImageView {
  x: 128;
  y: 327;
  cursor: Cursor.HAND;
  image: Image { url : "{__DIR__}Materi_3/agc-1.png"}
  scaleX: 0.65; scaleY: 0.65;
  onMouseEntered: function (e: MouseEvent): Void {
    submenu3c.scaleX = 1.0; submenu3c.scaleY = 1.0;
  }
  onMouseExited: function (e: MouseEvent): Void {
    submenu3c.scaleX = 0.65; submenu3c.scaleY = 0.65;
  }
}

```

```

    }
    onClicked: function (e: MouseEvent): Void {
    acc.visible = false;
    aft.visible = false;
    agc.visible = true;
    antena.visible = false;
    dehorizontal.visible = false;
    devertikal.visible = false;
    dewarna.visible = false;
    detektor55.visible = false;
    detektorfm.visible = false;
    devideo.visible = false;
    hvreg.visible = false;
    matrik.visible = false;
    pefasa.visible = false;
    pngkrominan.visible = false;
    pngsuara.visible = false;
    pewarna.visible = false;
    posuplay.visible = false;
    siseparator.visible = false;
    siwarna.visible = false;
    tuner.visible = false;
    videoif.visible = false;
    }
}
var submenu3d : ImageView = ImageView {
    x: 40;
    y: 195;
    cursor: Cursor.HAND;
    image: Image { url : "{__DIR__}Materi_3/antena-1.png"}
    scaleX: 0.6; scaleY: 0.6;
    onMouseEntered: function (e: MouseEvent): Void {
    submenu3d.scaleX = 1.0; submenu3d.scaleY = 1.0;
    }
    onMouseExited: function (e: MouseEvent): Void {
    submenu3d.scaleX = 0.6; submenu3d.scaleY = 0.6;
    }
    onClicked: function (e: MouseEvent): Void {
    acc.visible = false;
    aft.visible = false;
    agc.visible = false;
    antena.visible = true;
    dehorizontal.visible = false;
    devertikal.visible = false;
    dewarna.visible = false;
    detektor55.visible = false;
    detektorfm.visible = false;
    devideo.visible = false;
    hvreg.visible = false;
    matrik.visible = false;
    pefasa.visible = false;
    pngkrominan.visible = false;
    pngsuara.visible = false;
    pewarna.visible = false;
    posuplay.visible = false;
    siseparator.visible = false;

```

```

    siwarna.visible = false;
    tuner.visible = false;
    videoif.visible = false;
  }
}
var submenu3e : ImageView = ImageView {
  x: 305;
  y: 476;
  cursor: Cursor.HAND;
  image: Image { url : "{__DIR__}Materi_3/dehorizontal-1.png"}
  scaleX: 0.75; scaleY: 0.75;
  onMouseEntered: function (e: MouseEvent): Void {
    submenu3e.scaleX = 1.0; submenu3e.scaleY = 1.0;
  }
  onMouseExited: function (e: MouseEvent): Void {
    submenu3e.scaleX = 0.75; submenu3e.scaleY = 0.75;
  }
  onMouseClicked: function (e: MouseEvent): Void {
    acc.visible = false;
    aft.visible = false;
    agc.visible = false;
    antenna.visible = false;
    dehorizontal.visible = true;
    devertikal.visible = false;
    dewarna.visible = false;
    detektor55.visible = false;
    detektorfm.visible = false;
    devideo.visible = false;
    hvreg.visible = false;
    matrik.visible = false;
    pefasa.visible = false;
    pngkrominan.visible = false;
    pngsuara.visible = false;
    pewarna.visible = false;
    posuplay.visible = false;
    siseparator.visible = false;
    siwarna.visible = false;
    tuner.visible = false;
    videoif.visible = false;
  }
}
var submenu3f : ImageView = ImageView {
  x: 305;
  y: 430;
  cursor: Cursor.HAND;
  image: Image { url : "{__DIR__}Materi_3/devertikal-1.png"}
  scaleX: 0.75; scaleY: 0.75;
  onMouseEntered: function (e: MouseEvent): Void {
    submenu3f.scaleX = 1.0; submenu3f.scaleY = 1.0;
  }
  onMouseExited: function (e: MouseEvent): Void {
    submenu3f.scaleX = 0.75; submenu3f.scaleY = 0.75;
  }
  onMouseClicked: function (e: MouseEvent): Void {
    acc.visible = false;
    aft.visible = false;

```



```

    agc.visible = false;
    antenna.visible = false;
    dehorizontal.visible = false;
    devertikal.visible = true;
    dewarna.visible = false;
    detektor55.visible = false;
    detektorfm.visible = false;
    devideo.visible = false;
    hvreg.visible = false;
    matrik.visible = false;
    pefasa.visible = false;
    pngkrominan.visible = false;
    pngsuara.visible = false;
    pewarna.visible = false;
    posuplay.visible = false;
    siseparator.visible = false;
    siwarna.visible = false;
    tuner.visible = false;
    videoif.visible = false;
}
}
var submenu3g : ImageView = ImageView {
    x: 367;
    y: 324;
    cursor: Cursor.HAND;
    image: Image { url : "{__DIR__}Materi_3/dewarna-1.jpg" }
    scaleX: 0.71; scaleY: 0.71;
    onMouseEntered: function (e: MouseEvent): Void {
        submenu3g.scaleX = 1.0; submenu3g.scaleY = 1.0;
    }
    onMouseExited: function (e: MouseEvent): Void {
        submenu3g.scaleX = 0.71; submenu3g.scaleY = 0.71;
    }
    onMouseClicked: function (e: MouseEvent): Void {
        acc.visible = false;
        aft.visible = false;
        agc.visible = false;
        antenna.visible = false;
        dehorizontal.visible = false;
        devertikal.visible = false;
        dewarna.visible = true;
        detektor55.visible = false;
        detektorfm.visible = false;
        devideo.visible = false;
        hvreg.visible = false;
        matrik.visible = false;
        pefasa.visible = false;
        pngkrominan.visible = false;
        pngsuara.visible = false;
        pewarna.visible = false;
        posuplay.visible = false;
        siseparator.visible = false;
        siwarna.visible = false;
        tuner.visible = false;
        videoif.visible = false;
    }
}

```

```

}
var submenu3h : ImageView = ImageView {
    x: 232;
    y: 211;
    cursor: Cursor.HAND;
    image: Image { url : "{__DIR__}Materi_3/detektor55-1.jpg" }
    scaleX: 0.65; scaleY: 0.65;
    onMouseEntered: function (e: MouseEvent): Void {
        submenu3h.scaleX = 1.0; submenu3h.scaleY = 1.0;
    }
    onMouseExited: function (e: MouseEvent): Void {
        submenu3h.scaleX = 0.65; submenu3h.scaleY = 0.65;
    }
    onMouseClicked: function (e: MouseEvent): Void {
        acc.visible = false;
        aft.visible = false;
        agc.visible = false;
        antena.visible = false;
        dehorizontal.visible = false;
        devertikal.visible = false;
        dewarna.visible = false;
        detektor55.visible = true;
        detektorfm.visible = false;
        devideo.visible = false;
        hvreg.visible = false;
        matrik.visible = false;
        pefasa.visible = false;
        pngkrominan.visible = false;
        pngsuara.visible = false;
        pewarna.visible = false;
        posuplay.visible = false;
        siseparator.visible = false;
        siwarna.visible = false;
        tuner.visible = false;
        videoif.visible = false;
    }
}
var submenu3i : ImageView = ImageView {
    x: 311;
    y: 211;
    cursor: Cursor.HAND;
    image: Image { url : "{__DIR__}Materi_3/detektorfm-1.jpg" }
    scaleX: 0.65; scaleY: 0.65;
    onMouseEntered: function (e: MouseEvent): Void {
        submenu3i.scaleX = 1.0; submenu3i.scaleY = 1.0;
    }
    onMouseExited: function (e: MouseEvent): Void {
        submenu3i.scaleX = 0.65; submenu3i.scaleY = 0.65;
    }
    onMouseClicked: function (e: MouseEvent): Void {
        acc.visible = false;
        aft.visible = false;
        agc.visible = false;
        antena.visible = false;
        dehorizontal.visible = false;
        devertikal.visible = false;

```

```

dewarna.visible = false;
detektor55.visible = false;
detektorfm.visible = true;
devideo.visible = false;
hvreg.visible = false;
matrik.visible = false;
pefasa.visible = false;
pngkrominan.visible = false;
pngsuara.visible = false;
pewarna.visible = false;
posuplay.visible = false;
siseparator.visible = false;
siwarna.visible = false;
tuner.visible = false;
videoif.visible = false;
}
}
var submenu3j : ImageView = ImageView {
    x: 226;
    y: 284;
    cursor: Cursor.HAND;
    image: Image { url : "{__DIR__}Materi_3/devideo-1.jpg" }
    scaleX: 0.65; scaleY: 0.65;
    onMouseEntered: function (e: MouseEvent): Void {
        submenu3j.scaleX = 1.0; submenu3j.scaleY = 1.0;
    }
    onMouseExited: function (e: MouseEvent): Void {
        submenu3j.scaleX = 0.65; submenu3j.scaleY = 0.65;
    }
    onMouseClicked: function (e: MouseEvent): Void {
        acc.visible = false;
        aft.visible = false;
        agc.visible = false;
        antena.visible = false;
        dehorizontal.visible = false;
        devertikal.visible = false;
        dewarna.visible = false;
        detektor55.visible = false;
        detektorfm.visible = false;
        devideo.visible = true;
        hvreg.visible = false;
        matrik.visible = false;
        pefasa.visible = false;
        pngkrominan.visible = false;
        pngsuara.visible = false;
        pewarna.visible = false;
        posuplay.visible = false;
        siseparator.visible = false;
        siwarna.visible = false;
        tuner.visible = false;
        videoif.visible = false;
    }
}
}
var submenu3k : ImageView = ImageView {
    x: 473;
    y: 432;

```

```

cursor: Cursor.HAND;
    image: Image { url : "{__DIR__}Materi_3/hvreg-1.png"}
scaleX: 0.72; scaleY: 0.72;
onMouseEntered: function (e: MouseEvent): Void {
submenu3k.scaleX = 1.0; submenu3k.scaleY = 1.0;
}
onMouseExited: function (e: MouseEvent): Void {
submenu3k.scaleX = 0.72; submenu3k.scaleY = 0.72;
}
onMouseClicked: function (e: MouseEvent): Void {
acc.visible = false;
aft.visible = false;
agc.visible = false;
antena.visible = false;
dehorizontal.visible = false;
devertikal.visible = false;
dewarna.visible = false;
detektor55.visible = false;
detektorfm.visible = false;
devideo.visible = false;
hvreg.visible = true;
matrik.visible = false;
pefasa.visible = false;
pngkrominan.visible = false;
pngsuara.visible = false;
pewarna.visible = false;
posuplay.visible = false;
siseparator.visible = false;
siwarna.visible = false;
tuner.visible = false;
videoif.visible = false;
}
}
var submenu3l : ImageView = ImageView {
x: 460;
y: 273;
cursor: Cursor.HAND;
    image: Image { url : "{__DIR__}Materi_3/matrik-1.png"}
scaleX: 0.65; scaleY: 0.65;
onMouseEntered: function (e: MouseEvent): Void {
submenu3l.scaleX = 1.0; submenu3l.scaleY = 1.0;
}
onMouseExited: function (e: MouseEvent): Void {
submenu3l.scaleX = 0.65; submenu3l.scaleY = 0.65;
}
onMouseClicked: function (e: MouseEvent): Void {
acc.visible = false;
aft.visible = false;
agc.visible = false;
antena.visible = false;
dehorizontal.visible = false;
devertikal.visible = false;
dewarna.visible = false;
detektor55.visible = false;
detektorfm.visible = false;
devideo.visible = false;
}
}

```

```

    hvreg.visible = false;
    matrik.visible = true;
    pefasa.visible = false;
    pngkrominan.visible = false;
    pngsuara.visible = false;
    pewarna.visible = false;
    posuplay.visible = false;
    siseparator.visible = false;
    siwarna.visible = false;
    tuner.visible = false;
    videoif.visible = false;
  }
}
var submenu3m : ImageView = ImageView {
  x: 287;
  y: 324;
  cursor: Cursor.HAND;
  image: Image { url : "{__DIR__}Materi_3/pefasa180-1.jpg" }
  scaleX: 0.65; scaleY: 0.65;
  onMouseEntered: function (e: MouseEvent): Void {
    submenu3m.scaleX = 1.0; submenu3m.scaleY = 1.0;
  }
  onMouseExited: function (e: MouseEvent): Void {
    submenu3m.scaleX = 0.65; submenu3m.scaleY = 0.65;
  }
  onMouseClicked: function (e: MouseEvent): Void {
    acc.visible = false;
    aft.visible = false;
    agc.visible = false;
    antena.visible = false;
    dehorizontal.visible = false;
    devertikal.visible = false;
    dewarna.visible = false;
    detektor55.visible = false;
    detektorfm.visible = false;
    devideo.visible = false;
    hvreg.visible = false;
    matrik.visible = false;
    pefasa.visible = true;
    pngkrominan.visible = false;
    pngsuara.visible = false;
    pewarna.visible = false;
    posuplay.visible = false;
    siseparator.visible = false;
    siwarna.visible = false;
    tuner.visible = false;
    videoif.visible = false;
  }
}
var submenu3n : ImageView = ImageView {
  x: 210;
  y: 324;
  cursor: Cursor.HAND;
  image: Image { url : "{__DIR__}Materi_3/pngkrominan-1.jpg" }
  scaleX: 0.65; scaleY: 0.65;
  onMouseEntered: function (e: MouseEvent): Void {

```

```

submenu3n.scaleX = 1.0; submenu3n.scaleY = 1.0;
}
onMouseExited: function (e: MouseEvent): Void {
submenu3n.scaleX = 0.65; submenu3n.scaleY = 0.65;
}
onMouseClicked: function (e: MouseEvent): Void {
acc.visible = false;
aft.visible = false;
agc.visible = false;
antena.visible = false;
dehorizontal.visible = false;
devertikal.visible = false;
dewarna.visible = false;
detektor55.visible = false;
detektorfm.visible = false;
devideo.visible = false;
hvreg.visible = false;
matrik.visible = false;
pefasa.visible = false;
pngkrominan.visible = true;
pngsuara.visible = false;
pewarna.visible = false;
posuplay.visible = false;
siseparator.visible = false;
siwarna.visible = false;
tuner.visible = false;
videoif.visible = false;
}
}
var submenu3o : ImageView = ImageView {
x: 390;
y: 211;
cursor: Cursor.HAND;
image: Image { url : "{__DIR__}Materi_3/pngsuara-1.jpg" }
scaleX: 0.65; scaleY: 0.65;
onMouseEntered: function (e: MouseEvent): Void {
submenu3o.scaleX = 1.0; submenu3o.scaleY = 1.0;
}
onMouseExited: function (e: MouseEvent): Void {
submenu3o.scaleX = 0.65; submenu3o.scaleY = 0.65;
}
onMouseClicked: function (e: MouseEvent): Void {
acc.visible = false;
aft.visible = false;
agc.visible = false;
antena.visible = false;
dehorizontal.visible = false;
devertikal.visible = false;
dewarna.visible = false;
detektor55.visible = false;
detektorfm.visible = false;
devideo.visible = false;
hvreg.visible = false;
matrik.visible = false;
pefasa.visible = false;
pngkrominan.visible = false;
}
}

```

```

    pngsuara.visible = true;
    pewarna.visible = false;
    posuplay.visible = false;
    siseparator.visible = false;
    siwarna.visible = false;
    tuner.visible = false;
    videoif.visible = false;
  }
}
var submenu3p : ImageView = ImageView {
  x: 312;
  y: 379;
  cursor: Cursor.HAND;
  image: Image { url : "{__DIR__}Materi_3/pewarna-1.jpg"}
  scaleX: 0.65; scaleY: 0.65;
  onMouseEntered: function (e: MouseEvent): Void {
    submenu3p.scaleX = 1.0; submenu3p.scaleY = 1.0;
  }
  onMouseExited: function (e: MouseEvent): Void {
    submenu3p.scaleX = 0.65; submenu3p.scaleY = 0.65;
  }
  onMouseClicked: function (e: MouseEvent): Void {
    acc.visible = false;
    aft.visible = false;
    agc.visible = false;
    antena.visible = false;
    dehorizontal.visible = false;
    devertikal.visible = false;
    dewarna.visible = false;
    detektor55.visible = false;
    detektorfm.visible = false;
    devideo.visible = false;
    hvreg.visible = false;
    matrik.visible = false;
    pefasa.visible = false;
    pngkrominan.visible = false;
    pngsuara.visible = false;
    pewarna.visible = true;
    posuplay.visible = false;
    siseparator.visible = false;
    siwarna.visible = false;
    tuner.visible = false;
    videoif.visible = false;
  }
}
var submenu3q : ImageView = ImageView {
  x: 30;
  y: 475;
  cursor: Cursor.HAND;
  image: Image { url : "{__DIR__}Materi_3/posuplay-1.png"}
  scaleX: 0.8; scaleY: 0.8;
  onMouseEntered: function (e: MouseEvent): Void {
    submenu3q.scaleX = 1.0; submenu3q.scaleY = 1.0;
  }
  onMouseExited: function (e: MouseEvent): Void {
    submenu3q.scaleX = 0.8; submenu3q.scaleY = 0.8;
  }
}

```

```

    }
    onClicked: function (e: MouseEvent): Void {
    acc.visible = false;
    aft.visible = false;
    agc.visible = false;
    antena.visible = false;
    dehorizontal.visible = false;
    devertikal.visible = false;
    dewarna.visible = false;
    detektor55.visible = false;
    detektorfm.visible = false;
    devideo.visible = false;
    hvreg.visible = false;
    matrik.visible = false;
    pefasa.visible = false;
    pngkrominan.visible = false;
    pngsuara.visible = false;
    pewarna.visible = false;
    posuplay.visible = true;
    siseparator.visible = false;
    siwarna.visible = false;
    tuner.visible = false;
    videoif.visible = false;
    }
}
var submenu3r : ImageView = ImageView {
    x: 172;
    y: 455;
    cursor: Cursor.HAND;
    image: Image { url : "{__DIR__}Materi_3/siseparator-1.png"}
    scaleX: 0.8; scaleY: 0.8;
    onMouseEntered: function (e: MouseEvent): Void {
    submenu3r.scaleX = 1.0; submenu3r.scaleY = 1.0;
    }
    onMouseExited: function (e: MouseEvent): Void {
    submenu3r.scaleX = 0.8; submenu3r.scaleY = 0.8;
    }
    onClicked: function (e: MouseEvent): Void {
    acc.visible = false;
    aft.visible = false;
    agc.visible = false;
    antena.visible = false;
    dehorizontal.visible = false;
    devertikal.visible = false;
    dewarna.visible = false;
    detektor55.visible = false;
    detektorfm.visible = false;
    devideo.visible = false;
    hvreg.visible = false;
    matrik.visible = false;
    pefasa.visible = false;
    pngkrominan.visible = false;
    pngsuara.visible = false;
    pewarna.visible = false;
    posuplay.visible = false;
    siseparator.visible = true;

```



```

    siwarna.visible = false;
    tuner.visible = false;
    videoif.visible = false;
  }
}
var submenu3s : ImageView = ImageView {
  x: 209;
  y: 414;
  cursor: Cursor.HAND;
  image: Image { url : "{__DIR__}Materi_3/siwarna-1.jpg"}
  scaleX: 0.75; scaleY: 0.75;
  onMouseEntered: function (e: MouseEvent): Void {
    submenu3s.scaleX = 1.0; submenu3s.scaleY = 1.0;
  }
  onMouseExited: function (e: MouseEvent): Void {
    submenu3s.scaleX = 0.75; submenu3s.scaleY = 0.75;
  }
  onMouseClicked: function (e: MouseEvent): Void {
    acc.visible = false;
    aft.visible = false;
    agc.visible = false;
    antenna.visible = false;
    dehorizontal.visible = false;
    devertikal.visible = false;
    dewarna.visible = false;
    detektor55.visible = false;
    detektorfm.visible = false;
    devideo.visible = false;
    hvreg.visible = false;
    matrik.visible = false;
    pefasa.visible = false;
    pngkrominan.visible = false;
    pngsuara.visible = false;
    pewarna.visible = false;
    posuplay.visible = false;
    siseparator.visible = false;
    siwarna.visible = true;
    tuner.visible = false;
    videoif.visible = false;
  }
}
var submenu3t : ImageView = ImageView {
  x: 61;
  y: 233;
  cursor: Cursor.HAND;
  image: Image { url : "{__DIR__}Materi_3/tuner-1.jpg"}
  scaleX: 0.65; scaleY: 0.65;
  onMouseEntered: function (e: MouseEvent): Void {
    submenu3t.scaleX = 1.0; submenu3t.scaleY = 1.0;
  }
  onMouseExited: function (e: MouseEvent): Void {
    submenu3t.scaleX = 0.65; submenu3t.scaleY = 0.65;
  }
  onMouseClicked: function (e: MouseEvent): Void {
    acc.visible = false;
    aft.visible = false;

```

```

    agc.visible = false;
    antena.visible = false;
    dehorizontal.visible = false;
    devertikal.visible = false;
    dewarna.visible = false;
    detektor55.visible = false;
    detektorfm.visible = false;
    devideo.visible = false;
    hvreg.visible = false;
    matrik.visible = false;
    pefasa.visible = false;
    pngkrominan.visible = false;
    pngsuara.visible = false;
    pewarna.visible = false;
    posuplay.visible = false;
    siseparator.visible = false;
    siwarna.visible = false;
    tuner.visible = true;
    videoif.visible = false;
}
}
var submenu3u : ImageView = ImageView {
    x: 122;
    y: 283;
    cursor: Cursor.HAND;
    image: Image { url : "{__DIR__}Materi_3/videoif-1.jpg"}
    scaleX: 0.65; scaleY: 0.65;
    onMouseEntered: function (e: MouseEvent): Void {
        submenu3u.scaleX = 1.0; submenu3u.scaleY = 1.0;
    }
    onMouseExited: function (e: MouseEvent): Void {
        submenu3u.scaleX = 0.65; submenu3u.scaleY = 0.65;
    }
    onMouseClicked: function (e: MouseEvent): Void {
        acc.visible = false;
        aft.visible = false;
        agc.visible = false;
        antena.visible = false;
        dehorizontal.visible = false;
        devertikal.visible = false;
        dewarna.visible = false;
        detektor55.visible = false;
        detektorfm.visible = false;
        devideo.visible = false;
        hvreg.visible = false;
        matrik.visible = false;
        pefasa.visible = false;
        pngkrominan.visible = false;
        pngsuara.visible = false;
        pewarna.visible = false;
        posuplay.visible = false;
        siseparator.visible = false;
        siwarna.visible = false;
        tuner.visible = false;
        videoif.visible = true;
    }
}

```

```

}
var speaker : ImageView = ImageView {
    x: 470;
    y: 235;
    image: Image { url : "{__DIR__}Materi_3/speaker-1.png"}
    scaleX: 0.65; scaleY: 0.65;
    onMouseEntered: function (e: MouseEvent): Void {
        speaker.scaleX = 1.0; speaker.scaleY = 1.0;
    }
    onMouseExited: function (e: MouseEvent): Void {
        speaker.scaleX = 0.65; speaker.scaleY = 0.65;
    }
}
var crt : ImageView = ImageView {
    x: 540;
    y: 265;
    image: Image { url : "{__DIR__}Materi_3/crt-1.png"}
    scaleX: 0.65; scaleY: 0.65;
    onMouseEntered: function (e: MouseEvent): Void {
        crt.scaleX = 1.0; crt.scaleY = 1.0;
    }
    onMouseExited: function (e: MouseEvent): Void {
        crt.scaleX = 0.65; crt.scaleY = 0.65;
    }
}
public override function create(): Node {
    return Group {
        content: [blokdiagram, acc, aft, agc, antena, dehorisontal, devertikal, dewarna, detektor55,
            detektorfm, devideo, hvreg, matrik, pefasa, pngkrominan, pngsuara,
            pewarna, posuplay, siseparator, siwarna, tuner, videoif,
            submenu3a, submenu3b, submenu3c, submenu3d, submenu3e, submenu3f,
            submenu3g, submenu3h, submenu3i, submenu3j, submenu3k, submenu3l,
            submenu3m, submenu3n, submenu3o, submenu3p, submenu3q, submenu3r,
            submenu3s, submenu3t, submenu3u, speaker, crt
        ];
    }
}
}
}
}

```

MenuFade4.fx

```

package skripsi;

import javafx.scene.CustomNode;
import javafx.scene.Node;
import javafx.scene.Group;
import javafx.scene.image.ImageView;
import javafx.scene.Cursor;
import javafx.scene.image.Image;
import javafx.scene.input.MouseEvent;

/**
 * @author cahyo
 */

```

```

public var aisy: D_Aisy = D_Aisy { visible: false, blocksMouse: true,};
public var dioda: D_Dioda = D_Dioda { visible: false, blocksMouse: true,};
public var induktor: D_Induktor = D_Induktor { visible: false, blocksMouse: true,};
public var kapasitor: D_Kapasitor = D_Kapasitor { visible: false, blocksMouse: true,};
public var resistor: D_Resistor = D_Resistor { visible: true, blocksMouse: true,};
public var transistor: D_Transistor = D_Transistor { visible: false, blocksMouse: true,};

```

```

public class MenuFade4 extends CustomNode {

```

```

var submenu4a : ImageView = ImageView {
    x: 720;
    y: 455;
    cursor: Cursor.HAND;
    image: Image { url : "{__DIR__}Materi_4/integrated circuit-1.png"}
    scaleX: 0.9; scaleY: 0.9;
    onMouseEntered: function (e: MouseEvent): Void {
        submenu4a.scaleX = 1.0; submenu4a.scaleY = 1.0;
    }
    onMouseExited: function (e: MouseEvent): Void {
        submenu4a.scaleX = 0.9; submenu4a.scaleY = 0.9;
    }
    onMouseClicked: function (e: MouseEvent): Void {
        aisy.visible = true;
        dioda.visible = false;
        induktor.visible = false;
        kapasitor.visible = false;
        resistor.visible = false;
        transistor.visible = false;
    }
}

```

```

var submenu4b : ImageView = ImageView {
    x: 720;
    y: 395;
    cursor: Cursor.HAND;
    image: Image { url : "{__DIR__}Materi_4/dioda-1.png"}
    scaleX: 0.9; scaleY: 0.9;
    onMouseEntered: function (e: MouseEvent): Void {
        submenu4b.scaleX = 1.0; submenu4b.scaleY = 1.0;
    }
    onMouseExited: function (e: MouseEvent): Void {
        submenu4b.scaleX = 0.9; submenu4b.scaleY = 0.9;
    }
    onMouseClicked: function (e: MouseEvent): Void {
        aisy.visible = false;
        dioda.visible = true;
        induktor.visible = false;
        kapasitor.visible = false;
        resistor.visible = false;
        transistor.visible = false;
    }
}

```

```

var submenu4c : ImageView = ImageView {
    x: 720;
    y: 275;
    cursor: Cursor.HAND;
    image: Image { url : "{__DIR__}Materi_4/induktor-1.png"}
}

```

```

scaleX: 0.9; scaleY: 0.9;
onMouseEntered: function (e: MouseEvent): Void {
submenu4c.scaleX = 1.0; submenu4c.scaleY = 1.0;
}
onMouseExited: function (e: MouseEvent): Void {
submenu4c.scaleX = 0.9; submenu4c.scaleY = 0.9;
}
onMouseClicked: function (e: MouseEvent): Void {
aisy.visible = false;
dioda.visible = false;
induktor.visible = true;
kapasitor.visible = false;
resistor.visible = false;
transistor.visible = false;
}
}
var submenu4d : ImageView = ImageView {
x: 720;
y: 215;
cursor: Cursor.HAND;
image: Image { url : "{__DIR__}Materi_4/kapasitor-1.png"}
scaleX: 0.9; scaleY: 0.9;
onMouseEntered: function (e: MouseEvent): Void {
submenu4d.scaleX = 1.0; submenu4d.scaleY = 1.0;
}
onMouseExited: function (e: MouseEvent): Void {
submenu4d.scaleX = 0.9; submenu4d.scaleY = 0.9;
}
onMouseClicked: function (e: MouseEvent): Void {
aisy.visible = false;
dioda.visible = false;
induktor.visible = false;
kapasitor.visible = true;
resistor.visible = false;
transistor.visible = false;
}
}
var submenu4e : ImageView = ImageView {
x: 720;
y: 155;
cursor: Cursor.HAND;
image: Image { url : "{__DIR__}Materi_4/resistor-1.png"}
scaleX: 0.9; scaleY: 0.9;
onMouseEntered: function (e: MouseEvent): Void {
submenu4e.scaleX = 1.0; submenu4e.scaleY = 1.0;
}
onMouseExited: function (e: MouseEvent): Void {
submenu4e.scaleX = 0.9; submenu4e.scaleY = 0.9;
}
onMouseClicked: function (e: MouseEvent): Void {
aisy.visible = false;
dioda.visible = false;
induktor.visible = false;
kapasitor.visible = false;
resistor.visible = true;
transistor.visible = false;
}
}

```

```

    }
}
var submenu4f : ImageView = ImageView {
    x: 720;
    y: 335;
    cursor: Cursor.HAND;
    image: Image { url : "{__DIR__}Materi_4/transistor-1.png"}
    scaleX: 0.9; scaleY: 0.9;
    onMouseEntered: function (e: MouseEvent): Void {
        submenu4f.scaleX = 1.0; submenu4f.scaleY = 1.0;
    }
    onMouseExited: function (e: MouseEvent): Void {
        submenu4f.scaleX = 0.9; submenu4f.scaleY = 0.9;
    }
    onMouseClicked: function (e: MouseEvent): Void {
        aisy.visible = false;
        dioda.visible = false;
        induktor.visible = false;
        kapasitor.visible = false;
        resistor.visible = false;
        transistor.visible = true;
    }
}
public override function create(): Node {
return Group {
content: [aisy, dioda, induktor, kapasitor, resistor, transistor,
submenu4a, submenu4b, submenu4c, submenu4d, submenu4e, submenu4f
];
}
}
}
}

```

MenuFade5.fx

```

package skripsi;

import javafx.scene.CustomNode;
import javafx.scene.Node;
import javafx.scene.Group;
import javafx.scene.image.ImageView;
import javafx.scene.Cursor;
import javafx.scene.image.Image;
import javafx.scene.input.MouseEvent;
import javafx.scene.text.Text;
import javafx.scene.text.Font;
import javafx.scene.paint.Color;
import javafx.scene.text.TextAlignment;

/**
 * @author cahyo
 */

public var avometer: E_Avometer = E_Avometer { visible: true, blocksMouse: true, };
public var solder: E_Solder = E_Solder { visible: false, blocksMouse: true, };
public var lainnya: E_Lainnya = E_Lainnya { visible: false, blocksMouse: true, };

```

```

public class MenuFade5 extends CustomNode {

var submenu5a : ImageView = ImageView {
    x: 740;
    y: 300;
    cursor: Cursor.HAND;
    image: Image { url : "{__DIR__}Materi_5/multimeter-1.png"}
    scaleX: 0.9; scaleY: 0.9;
    onMouseEntered: function (e: MouseEvent): Void {
        submenu5a.scaleX = 1.0; submenu5a.scaleY = 1.0;
    }
    onMouseExited: function (e: MouseEvent): Void {
        submenu5a.scaleX = 0.9; submenu5a.scaleY = 0.9;
    }
    onMouseClicked: function (e: MouseEvent): Void {
        avometer.visible = true;
        solder.visible = false;
        lainnya.visible = false;
    }
}

var submenu5b : ImageView = ImageView {
    x: 740;
    y: 340;
    cursor: Cursor.HAND;
    image: Image { url : "{__DIR__}Materi_5/solder listrik-1.png"}
    scaleX: 0.9; scaleY: 0.9;
    onMouseEntered: function (e: MouseEvent): Void {
        submenu5b.scaleX = 1.0; submenu5b.scaleY = 1.0;
    }
    onMouseExited: function (e: MouseEvent): Void {
        submenu5b.scaleX = 0.9; submenu5b.scaleY = 0.9;
    }
    onMouseClicked: function (e: MouseEvent): Void {
        avometer.visible = false;
        solder.visible = true;
        lainnya.visible = false;
    }
}

var submenu5c : ImageView = ImageView {
    x: 740;
    y: 380;
    cursor: Cursor.HAND;
    image: Image { url : "{__DIR__}Materi_5/3 lainnya-1.png"}
    scaleX: 0.9; scaleY: 0.9;
    onMouseEntered: function (e: MouseEvent): Void {
        submenu5c.scaleX = 1.0; submenu5c.scaleY = 1.0;
    }
    onMouseExited: function (e: MouseEvent): Void {
        submenu5c.scaleX = 0.9; submenu5c.scaleY = 0.9;
    }
    onMouseClicked: function (e: MouseEvent): Void {
        avometer.visible = false;
        solder.visible = false;
        lainnya.visible = true;
    }
}
}

```

```

var pengantar : Text = Text {
    x: 680;
    y: 205;
    wrappingWidth : 300;
    font : Font.font("Calibri", 15);
    fill : Color.BLACK;
    textAlignment : TextAlignment.JUSTIFY;
    content : "PERALATAN"
    "\n"
    "\n Dalam pekerjaan perbaikan, peralatan harus disiapkan "
    "guna memperlancar pekerjaan. Peralatan utama yang dibutuhkan dalam "
    "memperbaiki pesawat televisi berwarna yaitu : "
    "\n"
    "\n"
    "\n"
    "\n"
    "\n"
    "\n"
    "\n"
    "\n3 peralatan lain tersebut yaitu de-soldering atau atraktor, obeng panjang, "
    "dan tenol (timah solder)."
}

```

```

public override function create(): Node {
return Group {
content: [pengantar, avometer, solder, lainnya,
submenu5a, submenu5b, submenu5c
];
}
}
}
}
}

```

MenuFade6.fx

```

package skripsi;

```

```

import javafx.scene.CustomNode;
import javafx.scene.Node;
import javafx.scene.Group;
import javafx.scene.image.ImageView;
import javafx.scene.Cursor;
import javafx.scene.image.Image;
import javafx.scene.input.MouseEvent;
/**
 * @author cahyo
 */

```

```

public var prosedur: F_Prosedur = F_Prosedur { visible: true, blocksMouse: true, };
public var rangkaian: F_Rangkaian = F_Rangkaian { visible: false, blocksMouse: true, };
public var kerusakan: F_Kerusakan = F_Kerusakan { visible: false, blocksMouse: true, };

```

```

public class MenuFade6 extends CustomNode {

```

```

var submenu6a : ImageView = ImageView {
    x: 725;
    y: 35;
    cursor: Cursor.HAND;
}

```



```

        image: Image { url : "{__DIR__}Materi_6/prosedur-1.png"}
        scaleX: 0.9; scaleY: 0.9;
        onMouseEntered: function (e: MouseEvent): Void {
            submenu6a.scaleX = 1.0; submenu6a.scaleY = 1.0;
        }
        onMouseExited: function (e: MouseEvent): Void {
            submenu6a.scaleX = 0.9; submenu6a.scaleY = 0.9;
        }
        onMouseClicked: function (e: MouseEvent): Void {
            prosedur.visible = true;
            rangkaian.visible = false;
            kerusakan.visible = false;
        }
    }
    var submenu6b : ImageView = ImageView {
        x: 725;
        y: 75;
        cursor: Cursor.HAND;
        image: Image { url : "{__DIR__}Materi_6/rangkaian-1.png"}
        scaleX: 0.9; scaleY: 0.9;
        onMouseEntered: function (e: MouseEvent): Void {
            submenu6b.scaleX = 1.0; submenu6b.scaleY = 1.0;
        }
        onMouseExited: function (e: MouseEvent): Void {
            submenu6b.scaleX = 0.9; submenu6b.scaleY = 0.9;
        }
        onMouseClicked: function (e: MouseEvent): Void {
            prosedur.visible = false;
            rangkaian.visible = true;
            kerusakan.visible = false;
        }
    }
}
    var submenu6c : ImageView = ImageView {
        x: 725;
        y: 115;
        cursor: Cursor.HAND;
        image: Image { url : "{__DIR__}Materi_6/video-1.png"}
        scaleX: 0.9; scaleY: 0.9;
        onMouseEntered: function (e: MouseEvent): Void {
            submenu6c.scaleX = 1.0; submenu6c.scaleY = 1.0;
        }
        onMouseExited: function (e: MouseEvent): Void {
            submenu6c.scaleX = 0.9; submenu6c.scaleY = 0.9;
        }
        onMouseClicked: function (e: MouseEvent): Void {
            prosedur.visible = false;
            rangkaian.visible = false;
            kerusakan.visible = true;
        }
    }
}
    public override function create(): Node {
        return Group {
            content: [prosedur, rangkaian, kerusakan,
                submenu6a, submenu6b, submenu6c
            ];
        }
    }
}

```

```
}  
}
```

B_CRT.fx

```
package skripsi;
```

```
import javafx.scene.CustomNode;  
import javafx.scene.image.ImageView;  
import javafx.scene.image.Image;  
import javafx.scene.Node;  
import javafx.scene.Group;  
import javafx.scene.text.Text;  
import javafx.scene.text.Font;  
import javafx.scene.paint.Color;  
import javafx.scene.text.TextAlignment;  
import javafx.scene.input.MouseEvent;  
import javafx.scene.Cursor;
```

```
/**
```

```
 * @author cahyo
```

```
 */
```

```
public class B_CRT extends CustomNode {  
    var crt : ImageView = ImageView {  
        x: 290;  
        y: 200;  
        cursor: Cursor.WAIT;  
        image: Image { url : "{__DIR__}Materi_2/crt.jpg"};  
    }  
    var skema : ImageView = ImageView {  
        x: 470;  
        y: 183;  
        cursor: Cursor.WAIT;  
        image: Image { url : "{__DIR__}Materi_2/skema crt.jpg"};  
        scaleX: 0.85; scaleY: 0.85;  
        onMouseEntered: function (e: MouseEvent): Void {  
            skema.scaleX = 1.2; skema.scaleY = 1.2;  
        }  
        onMouseExited: function (e: MouseEvent): Void {  
            skema.scaleX = 0.85; skema.scaleY = 0.85;  
        }  
    }  
    var isi : Text = Text {  
        x: 290, y: 335  
        wrappingWidth : 520;  
        font : Font.font("Calibri", 15);  
        fill : Color.BLACK;  
        textAlignment : TextAlignment.JUSTIFY;  
        content :  
        "\n"  
        "\n Pada layar fosfor sebuah tabung gambar berwarna dapat direproduksi "  
        "gambar dengan menggunakan sinyal gambar yang dikirimkan dari pemancar "  
        "Di dalam tabung gambar berwarna itu terdapat tiga berkas elektron yang "  
        "dibangkitkan oleh tiga buah penembak elektron yang masing-masing mengenai "  
        "titik-titik fosfor merah, hijau, dan biru pada layar fosfor itu secara "
```

```

    "efektif, sehingga titik-titik itu menyala dan "
}
var isi_1 : Text = Text {
    x: 290, y: 445
    wrappingWidth : 520;
    font : Font.font("Calibri", 15);
    fill : Color.BLACK;
    textAlignment : TextAlignment.LEFT;
    content :
        "\nmembentuk gambar berwarna yang baik."
}
public override function create(): Node {
return Group {
content: [crt, isi, isi_1, skema ]
};
}
}

```

C_ACC.fx

```

package skripsi;

import javafx.scene.CustomNode;
import javafx.scene.image.ImageView;
import javafx.scene.image.Image;
import javafx.scene.Node;
import javafx.scene.Group;
import javafx.scene.text.Text;
import javafx.scene.text.Font;
import javafx.scene.text.FontWeight;
import javafx.scene.paint.Color;
import javafx.scene.text.TextAlignment;

/**
 * @author cahyo
 */

public class C_ACC extends CustomNode {
public var acc : ImageView = ImageView {
    x: 540;
    y: 80;
    image: Image { url : "{__DIR__}Materi_3/ACC.jpg"};
}
public var fungsi_carakerja : Text = Text {
    x: 680, y: 215
    wrappingWidth : 280;
    font : Font.font("Calibri", FontWeight.BOLD, 18);
    fill : Color.BLACK;
    textAlignment : TextAlignment.LEFT;
    content : "Fungsi dan Cara Kerja"
        "\nACC"
}
public var isi : Text = Text {
    x: 680, y: 280
    wrappingWidth : 280;
    font : Font.font("Calibri", 15);

```

```

        fill : Color.BLACK;
        textAlignment : TextAlignment.JUSTIFY;
        content : " Rangkaian ACC (Automatic Control Colour) digunakan untuk "
        "mengontrol sinyal warna agar tetap konstan dengan cara mendeteksi "
        "amplitudo burs warna dengan detektor, dan penguatan penguat bandpass "
        "dikontrol oleh tanggapan searah yang berasal dari detektor ACC."
    }
}
public override function create(): Node {
return Group {
content: [fungsi_carakerja, isi]
};
}
}
}

```

D_Aisy.fx

```

package skripsi;

import javafx.scene.CustomNode;
import javafx.scene.image.ImageView;
import javafx.scene.image.Image;
import javafx.scene.Node;
import javafx.scene.Group;
import javafx.scene.text.Text;
import javafx.scene.text.Font;
import javafx.scene.paint.Color;
import javafx.scene.text.TextAlignment;
import javafx.scene.text.FontWeight;
import javafx.scene.Cursor;

/**
 * @author cahyo
 */

public class D_Aisy extends CustomNode {
var aisy : ImageView = ImageView {
    x: 50;
    y: 230;
    cursor: Cursor.WAIT;
    image: Image { url : "{__DIR__}Materi_4/integrated circuit.png"};
}
var nama_komponen : Text = Text {
    x: 50, y: 210
    wrappingWidth : 280;
    font : Font.font("Verdana", FontWeight.BOLD, 18);
    fill : Color.BLACK;
    textAlignment : TextAlignment.CENTER;
    content : "INTEGRATED CIRCUIT"
}
var isi : Text = Text {
    x: 340, y: 250
    wrappingWidth : 320;
    font : Font.font("Calibri", 15);
    fill : Color.BLACK;
    textAlignment : TextAlignment.JUSTIFY;
    content : "Keterangan,"
}
}

```

```

"\n"
"\n  Integrated Circuit / IC terdiri dari dioda, resistor, "
"transistor, dan kapasitor kecil yang dipadukan dalam satu rangkaian "
"kompleks. IC dapat dibagi dua macam : IC Monolitik dan IC Hibrida. Pada "
"IC Monolitik, adalah yang paling terkenal yang dibuat pada sebuah keping "
"semikonduktor, walaupun daya output sangat kecil tetapi dapat membuat "
"rangkaian yang sangat kompleks. Pada IC Hibrida terbuat pada papan "
"isolator seperti keramik atau gelas, dengan daya output IC hibrida yang "
"besar maka sering digunakan sebagai penguat daya pada televisi."
}
public override function create(): Node {
return Group {
content: [aisy, nama_komponen, isi]
};
}
}

```

E_Avometer.fx

```

package skripsi;

import javafx.scene.CustomNode;
import javafx.scene.image.ImageView;
import javafx.scene.image.Image;
import javafx.scene.Node;
import javafx.scene.Group;
import javafx.scene.text.Text;
import javafx.scene.text.Font;
import javafx.scene.text.FontWeight;
import javafx.scene.paint.Color;
import javafx.scene.text.TextAlignment;
import javafx.scene.Cursor;

/**
 * @author cahyo
 */

public class E_Avometer extends CustomNode {
var avometer : ImageView = ImageView {
x: 50;
y: 230;
cursor: Cursor.WAIT;
image: Image { url : "{__DIR__}Materi_5/multimeter.png" };
}
var nama_alat : Text = Text {
x: 50, y: 210
font : Font.font("Verdana", FontWeight.BOLD, 18);
fill : Color.BLACK;
textAlignment : TextAlignment.LEFT;
content : "MULTIMETER"
}
var isi : Text = Text {
x: 220, y: 250
wrappingWidth : 380;
font : Font.font("Calibri", 15);
fill : Color.BLACK;

```

```

textAlignment : TextAlignment.JUSTIFY;
content : "Keterangan,"
"\n"
"\n  Multimeter adalah sejenis ammeter DC moving coil (kumparan bergerak) "
"yang dilengkapi dengan rangkaian pengali dan pembagi serta penyearah, "
"baterai kering dan sakelar untuk merubah batas ukur. Tegangan DC, arus "
"DC, tegangan AC dan resistansi dapat dibaca langsung. Multimeter bukan "
"saja untuk mencari gangguan pada pesawat TV melainkan juga dipakai untuk "
"memeriksa beberapa instrumen listrik atau rangkaian lainnya."
}
public override function create(): Node {
return Group {
content: [avometer, nama_alat, isi]
};
}
}

```

F_Flyback.fx

```
package skripsi;
```

```

import javafx.scene.image.ImageView;
import javafx.scene.image.Image;
import javafx.scene.Node;
import javafx.scene.Group;
import javafx.scene.CustomNode;
import javafx.scene.text.Text;
import javafx.scene.text.Font;
import javafx.scene.paint.Color;
import javafx.scene.text.TextAlignment;
import javafx.scene.effect.Reflection;
import javafx.scene.Cursor;
import javafx.scene.input.MouseEvent;

/**
 * @author cahyo
 */

public class F_Flyback extends CustomNode {
var tombol_1 : ImageView = ImageView {
x: 70;
y: 480;
cursor: Cursor.HAND;
image: Image { url : "{__DIR__}Button/1.jpg"};
effect:Reflection {
fraction: 0.9
topOpacity: 0.5
topOffset: 2.5 };
onMouseClicked: function (e: MouseEvent): Void {
flyback.visible = true;
flyback_2.visible = true;
isi_1.visible = true;
isi_1_1.visible = true;
flyback_3.visible = false;
flyback_4.visible = false;
isi_2.visible = false;

```

```

isi_2_1.visible = false;
flyback_5.visible = false;
flyback_6.visible = false;
isi_3.visible = false;
isi_3_1.visible = false;
}
}
var flyback : ImageView = ImageView {
    x: 330;
    y: 200;
    visible : true;
    image: Image { url : "{__DIR__}Flyback_6/11.jpg"};
}
var flyback_2 : ImageView = ImageView {
    x: 670;
    y: 200;
    visible : true;
    image: Image { url : "{__DIR__}Flyback_6/12.jpg"};
}
var isi_1 : Text = Text {
    x: 330, y: 450
    visible : true;
    wrappingWidth : 520;
    font : Font.font("Calibri", 15);
    fill : Color.BLACK;
    textAlignment : TextAlignment.JUSTIFY;
    content :
    "    Gambar di atas merupakan contoh tabung gambar CRT di lihat dari "
    "sisi belakang. Sebelum kita mau melepas socket kabel fly back, maka pastikan "
    "terlebih dahulu "
}
var isi_1_1 : Text = Text {
    x: 330, y: 451
    visible : true;
    wrappingWidth : 520;
    font : Font.font("Calibri", 15);
    fill : Color.BLACK;
    textAlignment : TextAlignment.LEFT;
    content :
    "\n"
    "\ntelevisi dalam keadaan mati atau tidak terhubung dengan listrik."
}
var tombol_2 : ImageView = ImageView {
    x: 100;
    y: 480;
    cursor: Cursor.HAND;
    image: Image { url : "{__DIR__}Button/2.jpg"};
    effect:Reflection {
        fraction: 0.9
        topOpacity: 0.5
        topOffset: 2.5 };
    onMouseClicked: function (e: MouseEvent): Void {
        flyback.visible = false;
        flyback_2.visible = false;
        isi_1.visible = false;
        isi_1_1.visible = false;
    }
}

```

```

flyback_3.visible = true;
flyback_4.visible = true;
isi_2.visible = true;
isi_2_1.visible = true;
flyback_5.visible = false;
flyback_6.visible = false;
isi_3.visible = false;
isi_3_1.visible = false;
}
}
var flyback_3 : ImageView = ImageView {
    x: 330;
    y: 200;
    visible : false;
    image: Image { url : "{__DIR__}Flyback_6/12.jpg"};
}
var flyback_4 : ImageView = ImageView {
    x: 670;
    y: 200;
    visible : false;
    image: Image { url : "{__DIR__}Flyback_6/13.jpg"};
}
var isi_2 : Text = Text {
    x: 330, y: 450
    visible : false;
    wrappingWidth : 520;
    font : Font.font("Calibri", 15);
    fill : Color.BLACK;
    textAlignment : TextAlignment.JUSTIFY;
    content :
    "    Gambar di atas menunjukkan posisi saat akan melepas kabel fly back. "
    "Pada tabung gambar menyimpan muatan listrik yang cukup bisa mengejutkan kita, "
    "bahkan dalam kondisi televisi mati sekalipun. Perlu dipersiapkan kabel "
    "jamper, dapat diambil dari kabel probe multimeter. Salah satu sisi kabel hubungkan "
    "dengan kabel ground CRT, dan sisi lainnya shottkan dengan socket konektor "
    "fly back, hingga shott"
}
var isi_2_1 : Text = Text {
    x: 330, y: 451
    visible : false;
    wrappingWidth : 520;
    font : Font.font("Calibri", 15);
    fill : Color.BLACK;
    textAlignment : TextAlignment.LEFT;
    content :
    "\n"
    "\n"
    "\n"
}
var tombol_3 : ImageView = ImageView {
    x: 130;
    y: 480;
    cursor: Cursor.HAND;
    image: Image { url : "{__DIR__}Button/3.jpg"};
    effect:Reflection {
    fraction: 0.9

```



```

topOpacity: 0.5
topOffset: 2.5 };
onMouseClicked: function (e: MouseEvent): Void {
flyback.visible = false;
flyback_2.visible = false;
isi_1.visible = false;
isi_1_1.visible = false;
flyback_3.visible = false;
flyback_4.visible = false;
isi_2.visible = false;
isi_2_1.visible = false;
flyback_5.visible = true;
flyback_6.visible = true;
isi_3.visible = true;
isi_3_1.visible = true;
}
}
var flyback_5 : ImageView = ImageView {
x: 330;
y: 200;
visible : false;
image: Image { url : "{__DIR__}Flyback_6/14.jpg"};
}
var flyback_6 : ImageView = ImageView {
x: 670;
y: 200;
visible : false;
image: Image { url : "{__DIR__}Flyback_6/15.jpg"};
}
var isi_3 : Text = Text {
x: 330, y: 450
visible : false;
wrappingWidth : 520;
font : Font.font("Calibri", 15);
fill : Color.BLACK;
textAlignment : TextAlignment.JUSTIFY;
content :
" Saat kondisi sudah aman, kabel fly back dapat di lepas seperti biasa."
}
var isi_3_1 : Text = Text {
x: 330, y: 451
visible : false;
wrappingWidth : 520;
font : Font.font("Calibri", 15);
fill : Color.BLACK;
textAlignment : TextAlignment.LEFT;
content :
"\n"
"\n"
"\n"
}
var penjelasan : Text = Text {
x: 330, y: 422
wrappingWidth : 520;
font : Font.font("Berlin Sans FB Demi", 18);
fill : Color.BLACK;

```

```

        textAlignment : TextAlignment.LEFT;
        content :
        "Penjelasan Gambar : "
    }
    public override function create(): Node {
    return Group {
    content: [flyback, flyback_2, penjelasan, tombol_1, tombol_2, tombol_3
    ,isi_1, isi_1_1, flyback_3, flyback_4, isi_2, isi_2_1,
    isi_3, isi_3_1, flyback_5, flyback_6]
    };
    }
    }

```

F_Kerusakan.fx

```

package skripsi;

import javafx.scene.CustomNode;
import javafx.scene.image.ImageView;
import javafx.scene.image.Image;
import javafx.scene.Node;
import javafx.scene.Group;
import javafx.scene.Cursor;
import javafx.scene.input.MouseEvent;

/**
 * @author cahyo
 */
public var ver : F_Vertikal = F_Vertikal { visible: true, blocksMouse: true, };
public var ras : F_Raster = F_Raster { visible: false, blocksMouse: true, };
public var fly : F_Flyback = F_Flyback { visible: false, blocksMouse: true, };
public var tra : F_Transistor = F_Transistor { visible: false, blocksMouse: true, };
public var cap : F_Kapasitor = F_Kapasitor { visible: false, blocksMouse: true, };
public class F_Kerusakan extends CustomNode {
var vertikal : ImageView = ImageView {
    x: 50;
    y: 200;
    cursor: Cursor.HAND;
    image: Image { url : "{__DIR__}Materi_6/vertikal.png" };
    onMouseClicked: function (e: MouseEvent): Void {
    ver.visible = true;
    ras.visible = false;
    fly.visible = false;
    tra.visible = false;
    cap.visible = false;
    }
}
}
var raster : ImageView = ImageView {
    x: 50;
    y: 250;
    cursor: Cursor.HAND;
    image: Image { url : "{__DIR__}Materi_6/raster.png" };
    onMouseClicked: function (e: MouseEvent): Void {
    ver.visible = false;
    ras.visible = true;
    fly.visible = false;

```

```

        tra.visible = false;
        cap.visible = false;
    }
}
var flyback : ImageView = ImageView {
    x: 50;
    y: 300;
    cursor: Cursor.HAND;
    image: Image { url : "{__DIR__}Materi_6/flyback.png"};
    onMouseClicked: function (e: MouseEvent): Void {
        ver.visible = false;
        ras.visible = false;
        fly.visible = true;
        tra.visible = false;
        cap.visible = false;
    }
}
var transistor : ImageView = ImageView {
    x: 50;
    y: 350;
    cursor: Cursor.HAND;
    image: Image { url : "{__DIR__}Materi_6/transistor.png"};
    onMouseClicked: function (e: MouseEvent): Void {
        ver.visible = false;
        ras.visible = false;
        fly.visible = false;
        tra.visible = true;
        cap.visible = false;
    }
}
var kapasitor : ImageView = ImageView {
    x: 50;
    y: 400;
    cursor: Cursor.HAND;
    image: Image { url : "{__DIR__}Materi_6/kapasitor.png"};
    onMouseClicked: function (e: MouseEvent): Void {
        ver.visible = false;
        ras.visible = false;
        fly.visible = false;
        tra.visible = false;
        cap.visible = true;
    }
}
public override function create(): Node {
return Group {
content: [vertikal, raster, flyback, transistor, kapasitor, ver, ras, fly, cap, tra]
};
}
}

```