

I Made Suartana, S.Kom, M.Kom

Visual Programming



```
res[  
sub:  
or  
nt  
nt  
hil  
if  
s.length) {  
nt  
1) buf[loc  
ES_LEN)  
rrCode  
urn null;  
extractMessage(res);  
public int[] extractMessage(int[] res) {  
for (int i = 0; i < MAX_RES_LEN; i++) buf[i] = 0;  
int loc = 0; i = 0;  
while (i < res.length) {
```

PEMROGRAMAN VISUAL

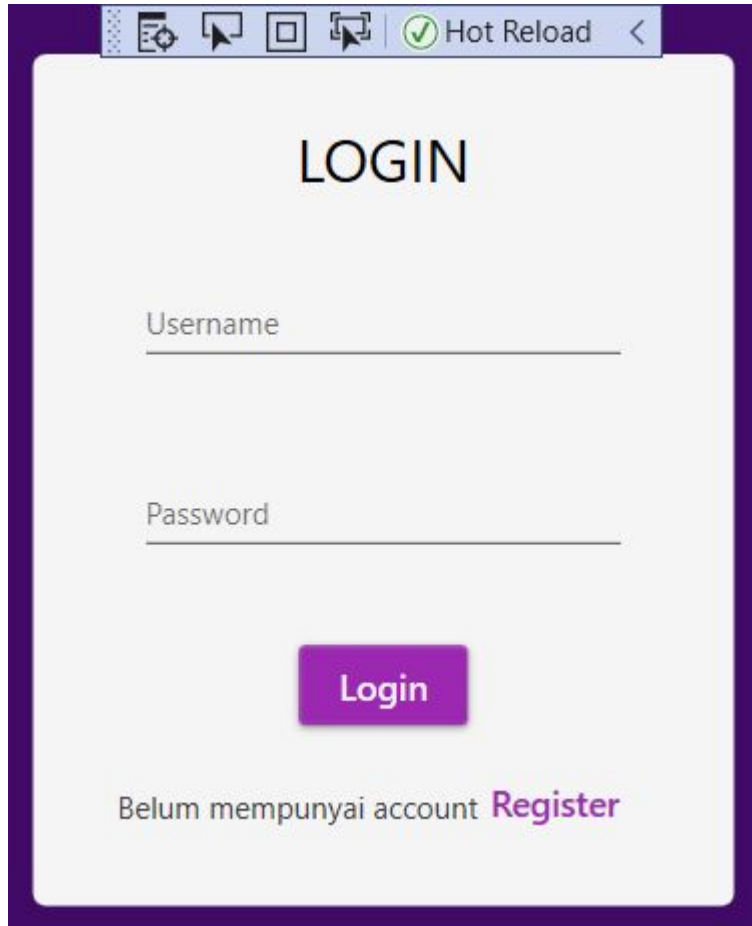
Material Design

TUJUAN

- Menerapkan penggunaan komponen tambahan untuk desain tampilan pada WPF



PROBLEM



The image shows a web browser window with a login form. The browser's address bar is empty, and the page title is "LOGIN". The form has two input fields: "Username" and "Password". Below the "Password" field is a purple "Login" button. At the bottom of the form, there is a link that says "Belum mempunyai account Register". The browser's developer tools are open, showing the "Hot Reload" button.

- Desain tampilan login dengan MaterialDesign

MATERI

- Komponen MaterialDesign WPF (MDIX)



Menu

Tugas

Kesimpula

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Referensi

Bantuan

Keluar

Bag 1

MDIX

MDIX

- Material Design In XAML (MDIX) adalah pustaka tema yg memperindah tampilan GUI dengan menghadirkan Desain Material Google ke aplikasi Windows Presentation Framework (WPF).



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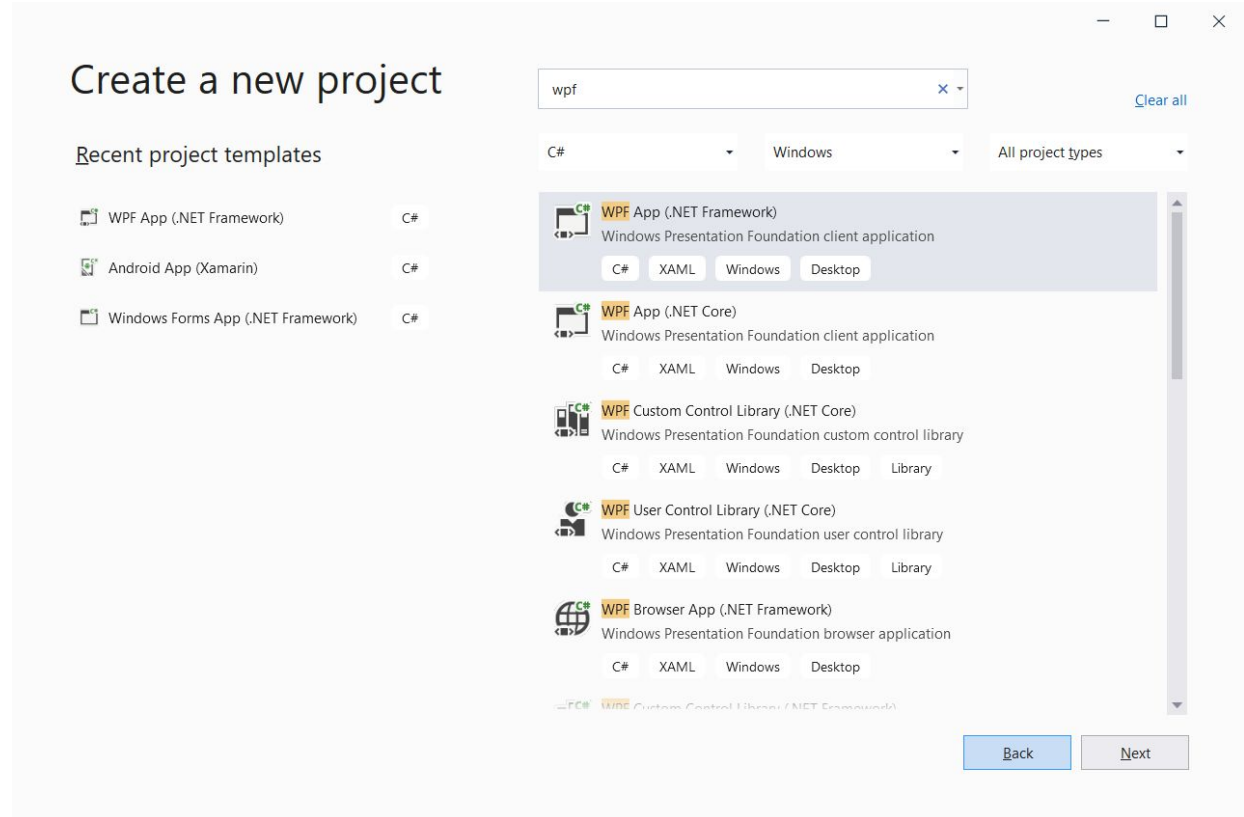
Keluar

Bag 2

CONTOH

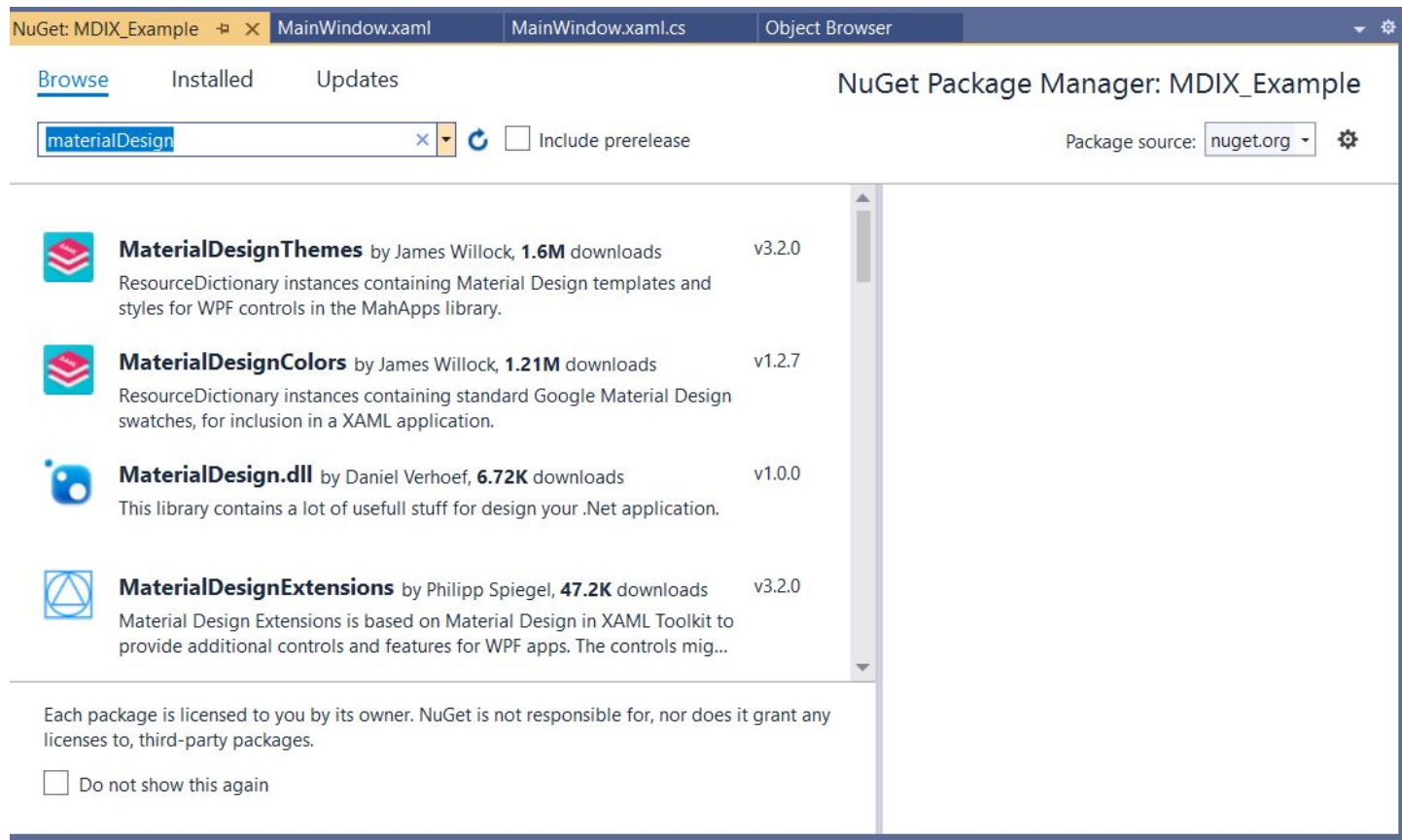
LANGKAH 1. BUAT PROJECT WPF

- Visual Studio, select File > New > Project
- WPF App (.NET Framework)**

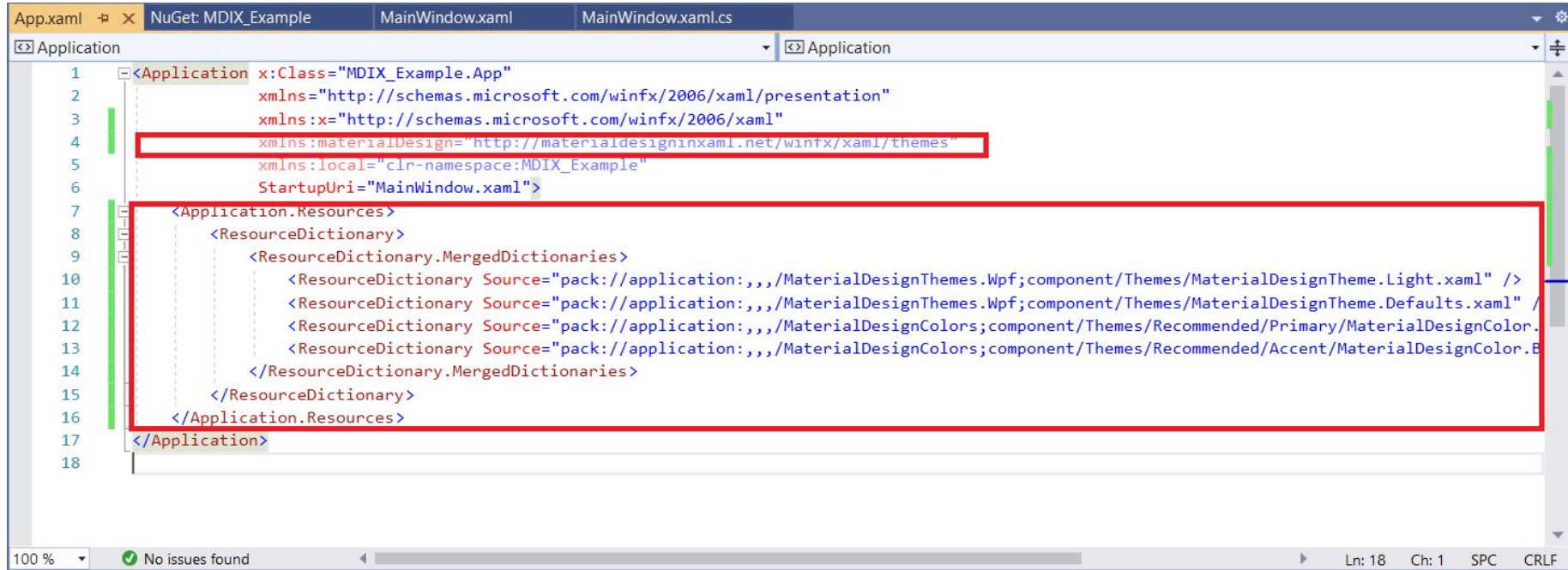


LANGKAH 2. TAMBAHKAN PACKAGE

- Buka Package Manager dan tambahkan paket MaterialDesignThemes NuGet ke proyek WPF



LANGKAH 3. TAMBAHKAN RESOURCE DICTIONARY



`xmlns:materialDesign="http://materialdesigninxaml.net/winfx/xaml/themes`

```
"
<ResourceDictionary.MergedDictionaries>
<ResourceDictionary
Source="pack://application:,,,/MaterialDesignThemes.Wpf;component/Themes/MaterialDesignTheme.Light.xaml" />
<ResourceDictionary
Source="pack://application:,,,/MaterialDesignThemes.Wpf;component/Themes/MaterialDesignTheme.Defaults.xaml" />
<ResourceDictionary
Source="pack://application:,,,/MaterialDesignColors;component/Themes/Recommended/Primary/MaterialDesignColor.Purple.xaml" />
<ResourceDictionary
Source="pack://application:,,,/MaterialDesignColors;component/Themes/Recommended/Accent/MaterialDesignColor.Blue.xaml" />
</ResourceDictionary.MergedDictionaries>
```

LANGKAH 4. EDIT MAINWINDOW.XAML

```
<Window x:Class="MDIX_Example.MainWindow"
        xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
        xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
        xmlns:d="http://schemas.microsoft.com/expression/blend/2008"
        xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"
        xmlns:local="clr-namespace:MDIX_Example"
        xmlns:materialDesign="http://materialdesigninxaml.net/winfx/xaml/themes"
        mc:Ignorable="d"
        Title="MainWindow" Height="370" Width="300"
        WindowStartupLocation="CenterScreen"
        ResizeMode="NoResize"
        WindowStyle="None"
        Background="■">#FF410A66">
```

⇒ edit property windows

LANGKAH 5. ADD KOMPONEN WINDOWS

□ Layout

```
<StackPanel >
  <Border Background=□"WhiteSmoke"
    Margin="10 20"
    CornerRadius="5">
    <StackPanel Margin="25">

    </StackPanel>
  </Border>
</StackPanel>
```

□ TextBlock

```
<TextBlock
  Style="{StaticResource MaterialDesignSubheadingTextBlock}"
  HorizontalAlignment="Center"
  Text="LOGIN">
</TextBlock>
```

□ TextBox & Password

```
<TextBox Margin="20"
    materialDesign:HintAssist.Hint="Username"
    materialDesign:HintAssist.Foreground=■ "Green"
    materialDesign:TextFieldAssist.UnderlineBrush=■ "Green"
    Style="{StaticResource MaterialDesignFloatingHintTextBox}"/>
<PasswordBox
    Margin="20"
    materialDesign:HintAssist.Hint="Password"
    materialDesign:HintAssist.Foreground=■ "Green"
    materialDesign:TextFieldAssist.UnderlineBrush=■ "Green"
    Style="{StaticResource MaterialDesignFloatingHintPasswordBox}" />
```

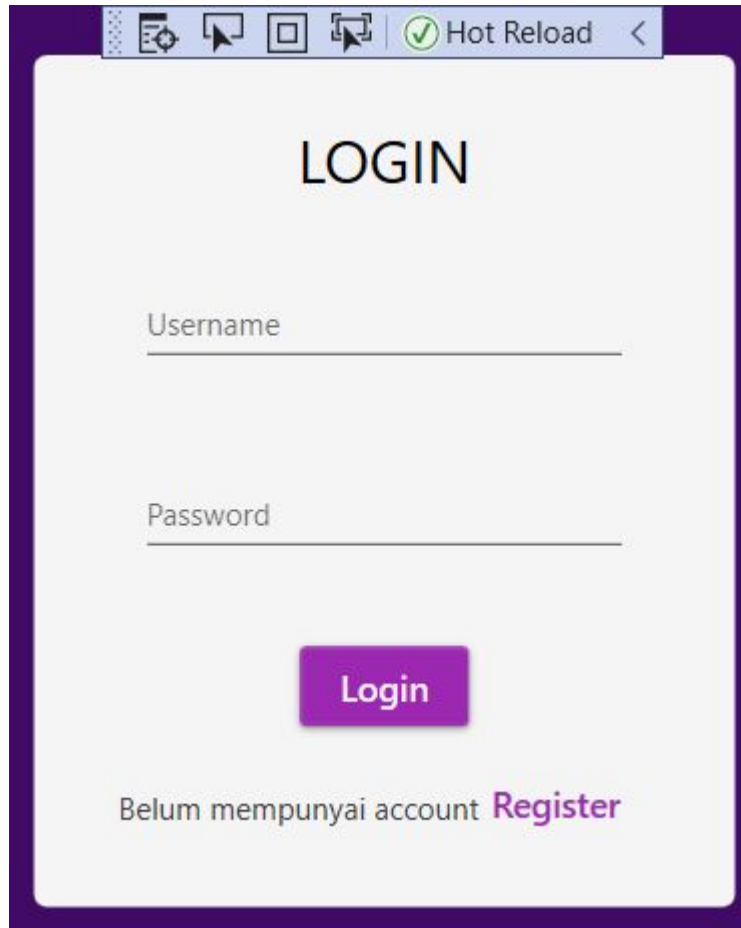
□ Button Login

```
<StackPanel Orientation="Horizontal"
    HorizontalAlignment="Center">
    <Button Margin="15 20"
        Content="Login"/>
</StackPanel>
```

□ Register text

```
<StackPanel Orientation="Horizontal"
    HorizontalAlignment="Center">
    <Label Content="Belum mempunyai account"
        Margin="0 0 0 0" />
    <Button Margin="-15 -5 0 0"
        Style="{StaticResource MaterialDesignFlatButton}"
        ToolTip="MaterialDesignFlatButton"
        Content="Register"/>
</StackPanel>
```

HASIL OUTPUT



Hot Reload <

LOGIN

Username

Password

Login

Belum mempunyai account [Register](#)

DEMO



Menu

Tugas

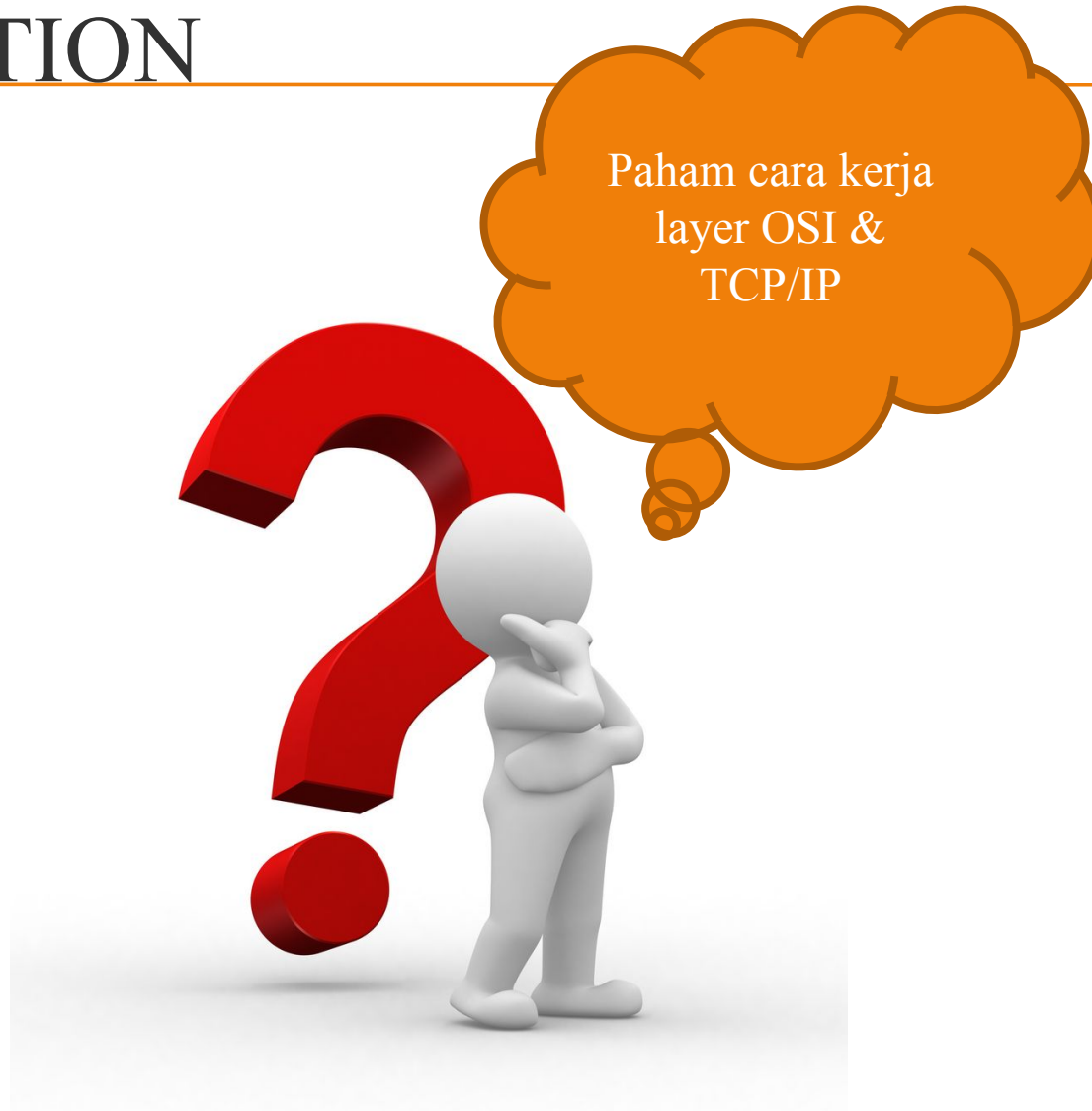
Kesimpulan

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QUESTION





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KESIMPULAN

CONCLUSIÓN





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REFERENSI

- <https://medium.com/@smaill.oubaalla/create-modern-wpf-application-using-material-design-in-xaml-ab740110e7e9>



Menu

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Bantuan



Tombol "Home", itu akan membawa Anda kembali ke halaman pembuka.



Tombol kembali ke halaman terakhir yang dilihat

Menu

Tombol menu materi utama dalam media .

Tugas

Tombol tugas untuk menuju ke halaman tugas.

Kesimpulan

Tombol Kesimpulan untuk menuju ke halaman kesimpulan

Referensi

Tombol referensi untuk menuju ke halaman referensi

Bantuan

Tombol bantuan untuk menuju ke halaman bantuan

Keluar

Tombol untuk menutup aplikasi

SELESAI