



APLIKASI MENGUNCI (LOCK) USB
UNTUK MENGAMANKAN PORT USB MENGGUNAKAN
PEMROGRAMAN VISUAL BASIC. NET

Oleh :

NACHSIFUL MUSLICH
41506010043

PROGRAM STUDI TEKNIK INFORMATIKA
FAKULTAS ILMU KOMPUTER
UNIVERSITAS MERCU BUANA
JAKARTA
2011



APLIKASI MENGUNCI (LOCK) USB
UNTUK MENGAMANKAN PORT USB MENGGUNAKAN
PEMROGRAMAN VISUAL BASIC. NET

Laporan Tugas Akhir

*Diajukan Untuk Melengkapi Salah Satu Syarat
Memperoleh Gelar Sarjana Komputer*

Oleh :

NACHSIFUL MUSLICH
41506010043

PROGRAM STUDI TEKNIK INFORMATIKA
FAKULTAS ILMU KOMPUTER
UNIVERSITAS MERCU BUANA
JAKARTA
2011

LEMBAR PERNYATAAN

Yang bertanda tangan di bawah ini :

NIM : 41506010043

Nama : NACHSIFUL MUSLICH

Judul Skripsi : APLIKASI MENGUNCI (LOCK) USB UNTUK
MENGAMANKAN PORT USB MENGGUNAKAN
PEMROGRAMAN VISUAL BASIC. NET

Menyatakan bahwa skripsi tersebut diatas adalah hasil karya saya sendiri dan bukan plagiat. Apabila ternyata ditemukan didalam laporan skripsi saya terdapat unsur plagiat, maka saya siap untuk mendapatkan sanksi akademik yang terkait dengan hal tersebut.

Jakarta, 7 Februari 2011

(Nachsiful M.)

LEMBAR PERSETUJUAN

NIM : 41506010043

Nama : NACHSIFUL MUSLICH

Judul Skripsi : APLIKASI MENGUNCI (LOCK) USB UNTUK
MENGAMANKAN PORT USB MENGGUNAKAN
PEMROGRAMAN VISUAL BASIC. NET

SKRIPSI INI TELAH DIPERIKSA DAN DISETUJUI

JAKARTA,

Ratna Mutu Manikam, S.Kom., MT

Pembimbing

Devi Fitrianah, S.Kom.,MTI

KaProdi Teknik Informatika

Ida Nurhaida, ST.,MT

Koord. TA Teknik Informatika

LEMBAR PERSETUJUAN SIDANG

NIM : 41506010043

Nama : NACHSIFUL MUSLICH

Judul Skripsi : APLIKASI MENGUNCI (LOCK) USB UNTUK

MENGAMANKAN PORT USB DENGAN MENGGUNAKAN

PEMROGRAMAN VISUAL BASIC. NET

SKRIPSI INI TELAH DIPERIKSA DAN DISETUJUI

JAKARTA,

Ratna Mutu Manikam, S.Kom., MT

Pembimbing

ABSTRAK

Kebutuhan yang sangat penting untuk komputer adalah kebutuhan keamanan. Salah satunya yang sering kita gunakan sehari-hari untuk menyalin atau bertukar data yaitu menggunakan Port USB (*Universal Serial Bus*). Kekurangan port USB adalah tidak adanya keamanan saat terjadi hubungan antara komputer dengan *peripheral*. Sehingga peran sistem operasi yang menangani *hardware* dan *software* sangat dibutuhkan.

Secara umum sistem operasi *Windows* memiliki *Registry* untuk menampung semua konfigurasi perangkat keras, perangkat lunak, asosiasi ekstensi berkas hingga preferensi pengguna. *Registry* merupakan pengganti berkas-berkas konfigurasi *.INI yang digunakan dalam sistem *Windows* 16-bit. Untuk mengakses port USB menjadi aktif/nonaktif harus mencari *subtree* yang berhubungan dengan port USB. Setelah itu mengakses nilai *value* dari data *Start* dan mengisinya dengan *value* 3 untuk aktif dan *value* 4 untuk nonaktif. Kemudian bagian dari port USB yaitu Vbus akan diputus aksesnya ke komputer. Bagian port USB yang lain yaitu D+, D- dan *ground* secara otomatis tidak akan aktif. Bagian D+ dan D- digunakan untuk menangani data masuk/keluar, sedangkan *ground* untuk mengamankan arus listrik. Kelebihan aplikasi ini dapat mengakses *Registry* dengan cepat dan mengamankan port USB dengan aplikasi yang diproteksi dengan *password*.

Kata Kunci : Keamanan, *Port USB*, *Registry*, Sistem Operasi

ABSTRACT

A very important requirement is the need for computer security. One of them is that often we use everyday to copy or exchange data that is using a USB port (Universal Serial Bus). Lack of USB ports is the lack of security when there is relationship between computer and peripherals. So the role of the operating system that handles hardware and software is needed.

In general, the Windows operating system has a registry to hold all the configuration of hardware, software, file extension associations to user preferences. Registry is an alternate configuration files *.ini is used in 16-bit Windows system. To access the USB port to be on / off to find the subtree associated with a USB port. After that access the data value of the Start value and fill it with the value 3 for the active and the value 4 for the disabled. Then part of the USB port that is Vbus is disconnected access to a computer. Another part of the USB port of D +, D-and the ground is not automatically activated. Part D + and D-are used to handle data entry / exit, while the ground to secure the electrical current. The advantage of this application can access the Registry quickly and secure the USB port with an application that is protected with a password.

Keywords: Security, USB Port, Registry, Operating System

KATA PENGANTAR

Alhamdulillah ke hadirat Allah SWT yang telah memberikan saya kesehatan, kemudahan dan segala nikmat yang ada, sehingga penulis dapat menyelesaikan tugas akhir ini dengan judul “ **Aplikasi Mengunci (Lock) USB untuk Mengamankan Port USB Menggunakan Pemrograman Visual Basic .Net** “ tepat pada waktunya. Rasa haru yang tak terhingga setelah bisa mengerjakan tugas akhir ini dengan suka duka. Mendapatkan pengalaman yang tak ternilai dalam penyusunan tugas akhir ini yang merupakan salah satu persyaratan untuk menyelesaikan program studi S1 pada Jurusan Teknik Informatika Universitas Mercu Buana.

Selama penulisan laporan tugas akhir ini, penulis banyak mengalami hambatan dan keterbatasan dalam persiapan, penyusunan maupun tahap penyelesaian. Oleh karena itu, dengan selesainya laporan tugas akhir ini maka penulis mengucapkan terima kasih yang sebesar-besarnya kepada semua pihak yang turut membantu dalam penyusunan skripsi ini. Pada kesempatan ini penulis mengucapkan terima kasih yang sebesar-besarnya kepada :

1. Ibu Ratna Mutu Manikam, S.Kom., MT., selaku dosen pembimbing yang telah memberikan arahan dan bimbingan dalam penyusunan laporan tugas akhir ini.
2. Ibu Devi Fitrianah, S.Kom., MTI., selaku Ketua Program Studi Teknik Informatika, Universitas Mercu Buana.

3. Ibu Ida Nurhaida, ST.,MT, selaku koordinator tugas akhir program studi Teknik Informatika Universitas Mercu Buana.
4. Keluarga Tercinta, kedua orang tua H. Solichin Ichsan dan Hj. Chayana yang selalu mengiringi penulis dalam restu dan do'a.
5. Kakak Ipar Drs. Ibni Affan dan kakakku Dra. Elvy Juheni yang telah memberikan bantuan materi, semangat dan masukan untuk menyelesaikan tugas akhir ini.
6. Saudara – saudaraku Achmad Najich, Helmi Musonif, Zulham Baisuni, Lailil Irzaq, Chusnul Hanafi, dan adikku M. Yusuf Abdila, terima kasih untuk dukungan materi dan nasehatnya yang menjadikan penulis kuat dalam menyusun tugas akhir ini.
7. Bapak Ahmad Kodar, Drs., MT., selaku dosen Pembimbing Akademik Program Studi Teknik Informatika angkatan 2006.
8. Bapak Tri Daryanto, S.kom., MT., memberikan penulis bantuan dan inspirasi dalam mengerjakan aplikasi.
9. Bapak Indrianto, S Kom., MT., memberikan penulis bantuan dan inspirasi dalam mengerjakan aplikasi.
10. Bapak Sugiyono dan Ibu Tumiyem yang telah memberikan bantuan dan doa restunya.
11. Ari Siskayanti, yang telah memberikan bantuan, doa dan semangat setiap hari untuk menyelesaikan tugas akhir ini.
12. Rina Dwi Susanti yang telah memberikan dukungan moril agar selalu kuat dan tetap semangat untuk menyelesaikan tugas akhir.

13. Sahabat-sahabatku Ichsan wahyudi, Debby Fitria, Fitri laksitasari Iriyanti, Jatu hestiningtyas, Aisyah, Bayu Kurniawan, yang memberikan bantuan dan masukan kepada penulis.
14. Semua mahasiswa/i Teknik Informatika khususnya angkatan 2006 teman seperjuangan yang telah banyak berbagi pengalaman, ilmu, dan juga semangat.
15. Semua pihak yang telah membantu baik langsung maupun tidak langsung dalam pembuatan laporan tugas akhir ini yang tidak dapat disebutkan penulis satu persatu.

Semoga skripsi ini dapat bermanfaat bagi siapa saja dan tentunya agar dapat dikembangkan lebih jauh di masa mendatang. Akhir kata, kepada semua pihak yang telah membantu terwujudnya tugas akhir ini semoga Allah selalu melimpahkan rahmat dan karunia-Nya. Amin.

Jakarta, 7 Februari 2011

Penulis

DAFTAR ISI

Halaman Judul	i
Halaman Pernyataan	ii
Halaman Persetujuan	iii
Halaman Persetujuan Sidang	iv
Abstrak	v
Abstract	vi
Kata Pengantar	vii
Daftar Isi	viii
Daftar Tabel	ix
Daftar Gambar	x
 BAB I PENDAHULUAN	
1.1 Latar Belakang Masalah	1
1.2 Rumusan Masalah	2
1.3 Batasan Masalah	2
1.4 Tujuan dan Manfaat Penelitian	3
1.5 Metodologi Penelitian	4
1.5.1 Metode Pengumpulan Data	4
1.6 Sistematika Penulisan	5

BAB II

LANDASAN TEORI

2.1 Sistem Operasi	6
2.1.1 Sistem Operasi Ms. Windows	6
2.1.2 Versi – versi Windows	7
2.1.3 Keamanan Sistem	8
2.1.4 Aspek Persyaratan Keamanan	9
2.1.5 Windows Registry	10
2.1.6 Struktur Registry	11
2.1.7 Daftar Anak Pohon Registry	13
2.1.8 Jenis Data Registry	14
2.2 Port USB	16
2.2.1 Pengertian Port USB	16
2.2.2 Jenis – jenis USB	18
2.3 Visual Basic .Net	18
2.3.1 Pengertian Visual Basic .Net	18
2.3.2 Versi Visual Basic .Net	19
2.4 Metodologi Perancangan Aplikasi	22
2.4.1 UML	22
2.4.2 Use Case Diagram	24
2.4.3 Activity Diagram	26
2.4.4 Sequence Diagram	29
2.4.5 State Machine Diagram	31

2.5 Perancangan Aplikasi	33
2.5.1 Perancangan Tampilan	34
2.5.2 Perancangan Antar Muka	34
2.6 Perancangan Basis Data	35
2.6.1 Microsoft Access	36
2.6.2 MySQL	39
2.7 Rekayasa Perangkat Lunak	40
2.7.1 Model Proses Perangkat Lunak	40
2.7.2 Metode Waterfall	41
2.7.3 Metode Pengujian Perangkat Lunak	43

BAB III ANALISA DAN PERANCANGAN

3.1 Analisa	46
3.1.1 Analisa Input	46
3.1.2 Analisa Proses	46
3.1.3 Analisa Output	47
3.1.4 Analisa Use Case Diagram	47
3.1.5 Analisa Sequence Diagram	53
3.1.6 Analisa Activity Diagram	58
3.1.7 Analisa State Machine Diagram	64
3.2 Perancangan	70
3.2.1 Perancangan Antar Muka	70
3.2.2 Perancangan Basis Data	77

	3.2.3 Perancangan port USB	78
	3.2.4 Perancangan <i>class diagram</i>	79
BAB IV	IMPLEMENTASI DAN PENGUJIAN	
	4.1 Implementasi Aplikasi	80
	4.2 Spesifikasi Kebutuhan Sistem	80
	4.2.1 Perangkat Keras	81
	4.2.2 Perangkat Lunak	81
	4.3 Implementasi Aplikasi Security Port USB	81
	4.3.1 Implementasi Antar Muka	81
	4.3.2 Implementasi Basis Data	93
	4.3.3 Implementasi port USB	96
	4.4 Metode Pengujian	98
	4.5 Skenario Pengujian	99
	4.6 Hasil Pengujian	102
	4.7 Analisa Hasil Pengujian	106
BAB V	KESIMPULAN DAN SARAN	
	5.1 Kesimpulan	108
	5.2 Saran	109
	Daftar Pustaka	110

Lampiran	112
----------------	-----

DAFTAR GAMBAR

Gambar 2.1	Tampilan Windows 7	7
Gambar 2.2	USB 2.0 dan USB 3.0	17
Gambar 2.3	Tampilan Visual Studio 2008	21
Gambar 2.4	Ccontoh <i>use case diagram</i> (Munawar, 2005)	26
Gambar 2.5	Gambar contoh <i>activity diagram</i> (Munawar, 2005)	29
Gambar 2.6	Contoh sequence diagram	31
Gambar 2.7	<i>State machine diagram</i>	33
Gambar 2.8	<i>Waterfall Design</i>	41
Gambar 3.1	Diagram <i>Use Case</i> Aplikasi Security Port USB	47
Gambar 3.2	<i>Sequence diagram</i> Form Login	52
Gambar 3.3	<i>Ssequence diagram</i> Form Main	53
Gambar 3.4	<i>Sequence diagram</i> Form Admin	54
Gambar 3.5	<i>Sequence diagram</i> Form Manage	55
Gambar 3.6	<i>Sequence diagram</i> Form Info	56
Gambar 3.7	<i>Sequence diagram</i> Form About	57
Gambar 3.8	<i>Activity diagram</i> Form Main	58
Gambar 3.9	<i>Activity diagram</i> Form Login	59
Gambar 3.10	<i>Activity diagram</i> Form Admin	60
Gambar 3.11	<i>Activity diagram</i> Form Manage	61

Gambar 3.12	<i>Activity diagram Form Info</i>	62
Gambar 3.13	<i>Activity diagram Form About</i>	63
Gambar 3.14	Gambar state machine diagram Form Main	64
Gambar 3.15	Gambar state machine diagram Form Admin	65
Gambar 3.16	Gambar state machine diagram Form Manage	66
Gambar 3.17	Gambar state machine diagram Form Info	67
Gambar 3.18	Gambar state machine diagram Form About	68
Gambar 3.19	Gambar Perancangan antar muka Form Start Up	69
Gambar 3.20	Gambar Perancangan antar muka Form Login	70
Gambar 3.21	Gambar Perancangan antar muka Form Main	71
Gambar 3.22	Gambar Perancangan antar muka Form Admin	72
Gambar 3.23	Gambar Perancangan antar muka Form Manage	73
Gambar 3.24	Gambar Perancangan antar muka Form Info	74
Gambar 3.25	Gambar Perancangan antar muka Form About	75
Gambar 3.26	Gambar Perancangan port USB	77
Gambar 3.27	Gambar penetapan kaki port USB	78
Gambar 3.28	Gambar class diagram aplikasi port USB	79
Gambar 4.1	Splash Screen Security Port USB	81
Gambar 4.2	Halaman Login	82
Gambar 4.3	Halaman Utama	84
Gambar 4.4	Halaman Mengganti Password	86
Gambar 4.5	Halaman Manage Security	87
Gambar 4.6	Halaman About	91

Gambar 4.7	Halaman Info	92
Gambar 4.8	Halaman Awal Micosoft Access	94
Gambar 4.9	Basis data Login	95
Gambar 4.10	Tabel Login	96
Gambar 4.11	Listing enable/disable port USB	96
Gambar 4.12	<i>Registry Editor</i> yang berhubungan dengan port USB.....	97

DAFTAR TABEL

Tabel 2.1	Perbandingan Persyaratan Keamanan	10
Tabel 2.2	Daftar anak pohon Registry	14
Tabel 2.3	Jenis data registry	16
Table 2.4	Macam-macam diagram pada UML	23
Tabel 2.5	Notasi use case	25
Tabel 2.6	Simbol <i>Activity diagram</i> (Munawar, 2005)	28
Tabel 2.7	Notasi <i>sequence diagram</i> (Fowler, 2005)	30
Table 2.8	Notasi <i>State Machine Diagram</i>	32
Tabel 3.1	Tabel login	76
Tabel 4.1	Skenario pengujian aplikasi	99
Tabel 4.2	Hasil pengujian aplikasi	102

LAMPIRAN

Listing program pada form Splash screen

```
Public Class SplashScreen
    Inherits System.Windows.Forms.Form

    Private Sub SplashScreen_Load(ByVal sender As Object, ByVal e As System.EventArgs)
Handles Me.Load
        If My.Application.Info.Title <> "" Then
            LblAplikasi.Text = My.Application.Info.Title
        Else
            LblAplikasi.Text =
System.IO.Path.GetFileNameWithoutExtension(My.Application.Info.AssemblyName)
        End If
        LblVersion.Text = System.String.Format(LblVersion.Text,
My.Application.Info.Version.Major, My.Application.Info.Version.Minor)
        LblCopyright.Text = My.Application.Info.Copyright
    End Sub

    Private Sub TimerSplashScreen_Tick(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles TimerSplashScreen.Tick
        ProgressBar1.Value += 4
        If ProgressBar1.Value = 100 Then
            TimerSplashScreen.Dispose()
            Me.Visible = False
            FrmLogin.Hide()
            FrmLogin.NotifyIconLogin.ShowBalloonTip(1, "Pemberitahuan", "Security Port
USB Aktif", ToolTipIcon.Info)
        End If
    End Sub
End Class
```

Listing program pada form login

```
Public Class FrmLogin
    Inherits System.Windows.Forms.Form
    Private WithEvents Glass As New fsButton.rtaGlassEffect
    Private Declare Function RemoveMenu Lib "user32" (ByVal hMenu As IntPtr, ByVal
nPosition As Integer, ByVal wFlags As Long) As IntPtr
    Private Declare Function GetSystemMenu Lib "user32" (ByVal hWnd As IntPtr, ByVal
bRevert As Boolean) As IntPtr
    Private Declare Function GetMenuItemCount Lib "user32" (ByVal hMenu As IntPtr) As
Integer
    Private Declare Function DrawMenuBar Lib "user32" (ByVal hwnd As IntPtr) As
Boolean
    Private Const MF_BYPOSITION = &H400
    Private Const MF_REMOVE = &H1000
    Private Const MF_DISABLED = &H2
```

```

Dim MyConnection As New Security_Port_USB.CLS.DatabaseConneciton
Dim Nama As String
Dim Password As String

Public Sub DisableCloseButton(ByVal hwnd As IntPtr)
    Dim hMenu As IntPtr
    Dim menuItemCount As Integer
    hMenu = GetSystemMenu(hwnd, False)
    menuItemCount = GetMenuItemCount(hMenu)
    Call RemoveMenu(hMenu, menuItemCount - 1, _
        MF_DISABLED Or MF_BYPOSITION)
    Call RemoveMenu(hMenu, menuItemCount - 2, _
        MF_DISABLED Or MF_BYPOSITION)
    Call DrawMenuBar(hwnd)
End Sub

Private Sub FrmLogin_KeyDown(ByVal sender As Object, ByVal e As
System.Windows.Forms.KeyEventArgs) Handles Me.KeyDown
    If e.Alt = True And e.KeyCode = Keys.F4 Then
        e.Handled = True
    End If
End Sub

Private Sub FrmLogin_Load(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles MyBase.Load
    Dim oReg As RegistryKey = Registry.CurrentUser
    Dim oKey As RegistryKey =
oReg.OpenSubKey("Software\Microsoft\Windows\CurrentVersion\Run", True)
    oKey.SetValue("Security Port USB", "C:\Program Files\Security Port
USB\Security Port USB.exe")
    DisableCloseButton(Me.Handle)
    TxtUsername.Focus()
    TxtUsername.MaxLength = 60
    TxtPassword.MaxLength = 10
    If fsButton.rtaGlassEffect.GlassEnabled Then
        Glass.TopBarSize = 60
        Glass.LeftBarSize = 40
        Glass.RightBarSize = 20
        Glass.BottomBarSize = 20
        Glass.ShowEffect(Me, lblTitle, PictureBox)
    End If
End Sub

Sub CekUser()
    '=====
    'Fungsi untuk mengecek nama user apakah ada pada database table record user
    'yang dimana nama username = txtusername.text
    objDataTable.Clear()
    strSql = ("SELECT * FROM [Login] where [Username] = " & "'" &
Trim(TxtUsername.Text) & "'")
    objCommand = New OleDbCommand
    objCommand.Connection = MyConnection.Open
    objCommand.CommandType = CommandType.Text
    objCommand.CommandText = strSql
    objDataAdapter = New OleDbDataAdapter(objCommand)
    objDataAdapter.Fill(objDataSet, "Mdt_Username")
    objDataTable = objDataSet.Tables("Mdt_Username")
    MyConnection.Close()
    '=====
End Sub

Sub CekPassword()

```

```

'=====
'Fungsi mencari nilai value password & Level
objCommand = Myconnection.Open.CreateCommand
objCommand.CommandText = ("select [Username],[Password] "
                        & " from [Login] where [Username]='" &
Trim(TxtUsername.Text) & "'")
objDataReader = objCommand.ExecuteReader
objDataReader.Read()
Nama = objDataReader.Item("Username") 'Mendefinisikan Id = Id yang ada pada
database
Password = objDataReader.Item("Password") 'Mendefinisikan Password = password
yang ada pada database
Myconnection.Close()
'=====

End Sub

Private Sub TxtUsername_KeyPress(ByVal sender As Object, ByVal e As
System.Windows.Forms.KeyPressEventArgs) Handles TxtUsername.KeyPress
    If e.KeyChar = Chr(13) Then TxtPassword.Select()
End Sub

Private Sub BtnLogin_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles BtnLogin.Click
    If TxtUsername.Text = "" Or TxtPassword.Text = "" Then
        FrmPeringatanGagal.ShowDialog()
        TxtUsername.Clear()
        TxtPassword.Clear()
        TxtUsername.Focus()
    Else
        Call CekUser()
        If objDataTable.Rows.Count <= 0 Then
            FrmPeringatanGagal.ShowDialog()
            TxtUsername.Clear()
            TxtPassword.Clear()
            TxtUsername.Focus()
        Else
            Call CekPassword()
            If Password <> Trim(TxtPassword.Text) Then
                FrmPeringatanGagal.ShowDialog()
                TxtUsername.Clear()
                TxtPassword.Clear()
                TxtUsername.Focus()
            Else
                Me.Hide()
                FrmMain.ShowDialog()
            End If
        End If
    End If
End Sub

Private Sub BtnCancel_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles BtnCancel.Click
    Me.Hide()
    TxtUsername.Clear()
    TxtPassword.Clear()
End Sub

Private Sub TxtPassword_KeyPress(ByVal sender As Object, ByVal e As
System.Windows.Forms.KeyPressEventArgs) Handles TxtPassword.KeyPress
    If e.KeyChar = Chr(13) Then
        BtnLogin.PerformClick()
    End If
End Sub

```

```

    Private Sub NotifyIconLogin_MouseDoubleClick(ByVal sender As System.Object, ByVal e As System.Windows.Forms.MouseEventArgs) Handles NotifyIconLogin.MouseDoubleClick
        Me.Show()
        TxtUsername.Focus()
        TxtUsername.Clear()
        TxtPassword.Clear()
        FrmMain.Hide()
        FrmAbout.Hide()
        FrmInfo.Hide()
        FrmChangePassword.Hide()
        FrmManage.Hide()
    End Sub
End Class

```

Listing program pada form main

```

Public Class FrmMain
    Inherits System.Windows.Forms.Form
    Private WithEvents Glass As New fsButton.rtaGlasEffect
    Private Declare Function RemoveMenu Lib "user32" (ByVal hMenu As IntPtr, ByVal nPosition As Integer, ByVal wFlags As Long) As IntPtr
    Private Declare Function GetSystemMenu Lib "user32" (ByVal hWnd As IntPtr, ByVal bRevert As Boolean) As IntPtr
    Private Declare Function GetMenuItemCount Lib "user32" (ByVal hMenu As IntPtr) As Integer
    Private Declare Function DrawMenuBar Lib "user32" (ByVal hwnd As IntPtr) As Boolean
    Private Const MF_BYPOSITION = &H400
    Private Const MF_REMOVE = &H1000
    Private Const MF_DISABLED = &H2

    Public Sub DisableCloseButton(ByVal hwnd As IntPtr)
        Dim hMenu As IntPtr
        Dim menuItemCount As Integer
        hMenu = GetSystemMenu(hwnd, False)
        menuItemCount = GetMenuItemCount(hMenu)
        Call RemoveMenu(hMenu, menuItemCount - 1, _
            MF_DISABLED Or MF_BYPOSITION)
        Call RemoveMenu(hMenu, menuItemCount - 2, _
            MF_DISABLED Or MF_BYPOSITION)
        Call DrawMenuBar(hwnd)
    End Sub

    Private Sub FrmMain_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load
        DisableCloseButton(Me.Handle)
        Me.Hide()
        If fsButton.rtaGlasEffect.GlassEnabled Then
            Glass.TopBarSize = 70
            Glass.LeftBarSize = 20
            Glass.RightBarSize = 20
            Glass.BottomBarSize = 25
            Glass.ShowEffect(Me, LblTitle, PicLogo)
        End If
        LblUser.Text = My.User.Name
        Dim regKey As RegistryKey
    End Sub

```

```

        regKey =
Registry.LocalMachine.OpenSubKey("SYSTEM\CurrentControlSet\Services\USBSTOR", True)
        regKey.SetValue("Start", 4)
        regKey.Close()
        LblStatusGambar.Text = "LOCKED"
        BtnLock.Enabled = False
        BtnUnlock.Enabled = True
    End Sub

    Private Sub Timer_Tick(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles Timer.Tick
        LblTgl.Text = Now().ToString("dd MMMM yy")
        LblJam.Text = Now().ToString("hh:MM")
    End Sub

    Private Sub BtnAdmin_Click(ByVal sender As Object, ByVal e As System.EventArgs)
Handles BtnAdmin.Click
        FrmChangePassword.ShowDialog()
    End Sub

    Private Sub BtnLock_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles BtnLock.Click
        LblStatusGambar.Text = "LOCKED"
        BtnLock.Enabled = False
        BtnUnlock.Enabled = True
        Dim regKey As RegistryKey
        regKey =
Registry.LocalMachine.OpenSubKey("SYSTEM\CurrentControlSet\Services\USBSTOR", True)
        regKey.SetValue("Start", 4)
        regKey.Close()
    End Sub

    Private Sub BtnUnlock_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles BtnUnlock.Click
        LblStatusGambar.Text = "UNLOCKED"
        BtnUnlock.Enabled = False
        BtnLock.Enabled = True
        Dim regKey As RegistryKey
        regKey =
Registry.LocalMachine.OpenSubKey("SYSTEM\CurrentControlSet\Services\USBSTOR", True)
        regKey.SetValue("Start", 3)
        regKey.Close()
    End Sub
End Class

```

Listing program pada form manage

```

Public Class FrmManage
    Inherits System.Windows.Forms.Form
    Private WithEvents Glass As New fsButton.rtaGlassEffect
    Const WM_COMMAND As Int32 = &H111
    Const MF_ENABLED As Int32 = &H0
    Const MF_GRAYED As Int32 = &H1
    Const LVM_FIRST As Int32 = &H1000
    Const LVM_DELETEITEM As Int32 = (LVM_FIRST + 8)
    Const LVM_SORTITEMS As Int32 = (LVM_FIRST + 48)
    Private Declare Function apiFindWindow Lib "user32" Alias "FindWindowA" (ByVal
lpClassName As String, ByVal lpWindowName As String) As Int32

```



```

Private Declare Function apiFindWindowEx Lib "user32" Alias "FindWindowExA" (ByVal
hWnd1 As Int32, ByVal hWnd2 As Int32, ByVal lpsz1 As String, ByVal lpsz2 As String) As
Int32
Private Declare Function apiEnableWindow Lib "user32" Alias "EnableWindow" (ByVal
hWnd As Int32, ByVal fEnable As Int32) As Boolean
Private Declare Function apiGetMenu Lib "user32" Alias "GetMenu" (ByVal hWnd As
Int32) As Int32
Private Declare Function apiGetSubMenu Lib "user32" Alias "GetSubMenu" (ByVal
hMenu As Int32, ByVal nPos As Int32) As Int32
Private Declare Function apiGetMenuItemID Lib "user32" Alias "GetMenuItemID"
(ByVal hMenu As Int32, ByVal nPos As Int32) As Int32
Private Declare Function apiEnableMenuItem Lib "user32" Alias "EnableMenuItem"
(ByVal hMenu As Int32, ByVal wIDEnableItem As Int32, ByVal wEnable As Int32) As Int32
Private Declare Function apiSendMessage Lib "user32" Alias "SendMessageA" (ByVal
hWnd As Int32, ByVal wParam As Int32, ByVal lParam As String) As
Int32
Private Declare Function apiGetDesktopWindow Lib "user32" Alias "GetDesktopWindow"
() As Int32
Private Declare Function apiLockWindowUpdate Lib "user32" Alias "LockWindowUpdate"
(ByVal hWndLock As Int32) As Int32

Private Sub FrmManage_Load(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles MyBase.Load
    If fsButton.rtaGlassEffect.GlassEnabled Then
        Glass.TopBarSize = 70
        Glass.LeftBarSize = 20
        Glass.RightBarSize = 20
        Glass.BottomBarSize = 25
        Glass.ShowEffect(Me, LblTitle, PicLogo)
    End If
End Sub

Private Function HideProcess(ByVal pName As String, Optional ByVal pHide As
Boolean = True)
    On Error Resume Next
    Dim lhWndParent As Int32 = apiFindWindow(Nothing, "Windows Task Manager")
    Dim lhWndDialog As Int32 = 0
    Dim lhWndProcessList As Int32 = 0
    Dim lhWndProcessHeader As Int32 = 0
    Dim hMenu As Int32 = apiGetMenu(lhWndParent)
    Dim hSubMenu As Int32 = apiGetSubMenu(hMenu, 2)
    Dim hSubSubMenu As Int32 = apiGetSubMenu(hSubMenu, 1)
    Dim hId1 As Int32 = apiGetMenuItemID(hSubMenu, 0)
    Dim hId2 As Int32 = apiGetMenuItemID(hSubSubMenu, 0)
    Dim hId3 As Int32 = apiGetMenuItemID(hSubSubMenu, 1)
    Dim hId4 As Int32 = apiGetMenuItemID(hSubSubMenu, 2)
    Dim hId5 As Int32 = apiGetMenuItemID(hSubSubMenu, 3)
    If pHide = True Then
        Dim ProcessItemCount, ProcessItemIndex As Int32
        Dim itemString As String, p As New Process, Processes() As Process

        For i As Int32 = 1 To 7
            lhWndDialog = apiFindWindowEx(lhWndParent, lhWndDialog, Nothing,
Nothing)

            If lhWndProcessList = 0 Then lhWndProcessList =
apiFindWindowEx(lhWndDialog, 0, "SysListView32", "Processes")
            If lhWndProcessHeader = 0 Then lhWndProcessHeader =
apiFindWindowEx(lhWndProcessList, 0, "SysHeader32", Nothing)
        Next

        apiSendMessage(lhWndParent, WM_COMMAND, hId5, 0)
        apiEnableMenuItem(hMenu, hId1, MF_GRAYED)
        apiEnableMenuItem(hMenu, hId2, MF_GRAYED)

```

```

apiEnableMenuItem(hMenu, hId3, MF_GRAYED)
apiEnableMenuItem(hMenu, hId4, MF_GRAYED)
apiEnableMenuItem(hMenu, hId5, MF_GRAYED)
apiEnableWindow(lhWndProcessHeader, 0)
If Me.ListView1.Items.Count > 0 Then Me.ListView1.Items.Clear()
Processes = Process.GetProcesses()
For Each p In Processes
    ProcessItemCount += 1
    If p.ProcessName.ToString = "Idle" Then
        With Me.ListView1.Items.Add("System Idle Process")
        End With
    Else
        With Me.ListView1.Items.Add(p.ProcessName.ToString)
        End With
    End If
Next p
For z As Int32 = 0 To ProcessItemCount - 1
    itemString = ListView1.Items.Item(z).Text.ToString()
    If itemString = pName Then ProcessItemIndex = z
Next

apiLockWindowUpdate(lhWndProcessList)
apiSendMessage(lhWndParent, WM_COMMAND, hId1, 0)
apiSendMessage(lhWndProcessList, LVM_SORTITEMS, 0, Nothing)
apiSendMessage(lhWndProcessList, LVM_DELETEITEM, ProcessItemIndex, 0)
apiLockWindowUpdate(False)
If lhWndParent = 0 Then
    If Timer1.Interval <> 800 Then Timer1.Interval = 800
Else
    If Timer1.Interval <> 2500 Then Timer1.Interval = 2500
End If
Else
    Timer1.Enabled = False
    For i As Int32 = 1 To 7
        lhWndDialog = apiFindWindowEx(lhWndParent, lhWndDialog, Nothing,
Nothing)
        If lhWndProcessList = 0 Then lhWndProcessList =
apiFindWindowEx(lhWndDialog, 0, "SysListView32", "Processes")
        If lhWndProcessHeader = 0 Then lhWndProcessHeader =
apiFindWindowEx(lhWndProcessList, 0, "SysHeader32", Nothing)
        Next
        apiEnableMenuItem(hMenu, hId1, MF_ENABLED)
        apiEnableMenuItem(hMenu, hId2, MF_ENABLED)
        apiEnableMenuItem(hMenu, hId3, MF_ENABLED)
        apiEnableMenuItem(hMenu, hId4, MF_ENABLED)
        apiEnableMenuItem(hMenu, hId5, MF_ENABLED)
        apiSendMessage(lhWndParent, WM_COMMAND, hId3, 0)
        apiSendMessage(lhWndParent, WM_COMMAND, hId1, 0)
        apiEnableWindow(lhWndProcessHeader, 1)
    End If
    Return True
End Function

Private Sub Timer1_Tick(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Timer1.Tick
    HideProcess("explorer", True)
End Sub

Private Sub CheckBoxDisableTaskMgr_CheckedChanged(ByVal sender As Object, ByVal e
As System.EventArgs) Handles CheckBoxDisableTaskMgr.CheckedChanged
    Dim regVersion As RegistryKey

```

```

        regVersion =
Registry.CurrentUser.OpenSubKey("Software\Microsoft\Windows\CurrentVersion\Policies\System", True)
    If regVersion Is Nothing Then
        regVersion =
Registry.CurrentUser.CreateSubKey("Software\Microsoft\Windows\CurrentVersion\Policies\System\DisableTaskMgr")
    End If
    Dim intLock As Integer = 1
    If (Not regVersion Is Nothing) Then
        intLock = regVersion.GetValue("DisableTaskMgr", 1)
        regVersion.SetValue("DisableTaskMgr", intLock)
        regVersion.Close()
    End If
End Sub

Private Sub CheckBoxDisableTaskMgr_CheckStateChanged(ByVal sender As Object, ByVal e As System.EventArgs) Handles CheckBoxDisableTaskMgr.CheckStateChanged
    If CheckBoxDisableTaskMgr.CheckState = CheckState.Unchecked Then
        Dim regVersion As RegistryKey
        regVersion =
Registry.CurrentUser.OpenSubKey("Software\Microsoft\Windows\CurrentVersion\Policies\System", True)
        regVersion.DeleteValue("DisableTaskMgr")
        regVersion.Close()
    End If
End Sub

Private Sub CheckBoxDisableRegedit_CheckedChanged(ByVal sender As Object, ByVal e As System.EventArgs) Handles CheckBoxDisableRegedit.CheckedChanged
    Dim regVersion As RegistryKey
    regVersion =
Registry.CurrentUser.OpenSubKey("Software\Microsoft\Windows\CurrentVersion\Policies\System", True)
    If regVersion Is Nothing Then
        regVersion =
Registry.CurrentUser.CreateSubKey("Software\Microsoft\Windows\CurrentVersion\Policies\System\DisableRegistryTools")
    End If
    Dim intLock As Integer = 1
    If (Not regVersion Is Nothing) Then
        intLock = regVersion.GetValue("DisableRegistryTools", 1)
        regVersion.SetValue("DisableRegistryTools", intLock)
        regVersion.Close()
    End If
End Sub

Private Sub CheckBoxDisableRegedit_CheckStateChanged(ByVal sender As Object, ByVal e As System.EventArgs) Handles CheckBoxDisableRegedit.CheckStateChanged
    If CheckBoxDisableRegedit.CheckState = CheckState.Unchecked Then
        Dim regVersion As RegistryKey
        regVersion =
Registry.CurrentUser.OpenSubKey("Software\Microsoft\Windows\CurrentVersion\Policies\System", True)
        regVersion.DeleteValue("DisableRegistryTools")
        regVersion.Close()
    End If
End Sub

Private Sub CheckBoxHideTaskList_CheckedChanged(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles CheckAdministratorsBoxHideTaskList.CheckedChanged
    HideProcess("", False)
End Sub

```

```

    Private Sub CheckBoxHideTaskList_CheckStateChanged(ByVal sender As Object, ByVal e
As System.EventArgs) Handles CheckAdministratorsBoxHideTaskList.CheckStateChanged
        If CheckAdministratorsBoxHideTaskList.CheckState = CheckState.Unchecked Then
            HideProcess("explorer", True)
        End If
    End Sub

    Private Sub FrmManage_Closed(ByVal sender As Object, ByVal e As System.EventArgs)
Handles MyBase.Closed
        HideProcess("", False)
    End Sub

    Private Sub CheckBoxDisableAddorRemove_CheckedChanged(ByVal sender As
System.Object, ByVal e As System.EventArgs) Handles
CheckBoxDisableAddorRemove.CheckedChanged
        Dim regKey As RegistryKey
        regKey =
Registry.CurrentUser.OpenSubKey("Software\Microsoft\Windows\CurrentVersion\Policies",
True)
        regKey.CreateSubKey("Uninstall")
        regKey =
Registry.CurrentUser.OpenSubKey("Software\Microsoft\Windows\CurrentVersion\Policies\Un
install", True)
        regKey.SetValue("NoAddRemovePrograms", 1)
        regKey.Close()
    End Sub

    Private Sub CheckBoxDisableAddorRemove_CheckStateChanged(ByVal sender As Object,
ByVal e As System.EventArgs) Handles CheckBoxDisableAddorRemove.CheckStateChanged
        If CheckBoxDisableAddorRemove.CheckState = CheckState.Unchecked Then
            Dim regKey As RegistryKey
            regKey =
Registry.CurrentUser.OpenSubKey("Software\Microsoft\Windows\CurrentVersion\Policies\Un
install", True)
            regKey.SetValue("NoAddRemovePrograms", 0)
            regKey.Close()
        End If
    End Sub

    Private Sub CheckBoxDisableControlPanel_CheckedChanged(ByVal sender As
System.Object, ByVal e As System.EventArgs) Handles
CheckBoxDisableControlPanel.CheckedChanged
        Dim regKey As RegistryKey
        regKey =
Registry.CurrentUser.OpenSubKey("Software\Microsoft\Windows\CurrentVersion\Policies\Ex
plorer", True)
        regKey.SetValue("NoControlPanel", 1)
        regKey.Close()
    End Sub

    Private Sub CheckBoxDisableControlPanel_CheckStateChanged(ByVal sender As Object,
ByVal e As System.EventArgs) Handles CheckBoxDisableControlPanel.CheckStateChanged
        If CheckBoxDisableControlPanel.CheckState = CheckState.Unchecked Then
            Dim regKey As RegistryKey
            regKey =
Registry.CurrentUser.OpenSubKey("Software\Microsoft\Windows\CurrentVersion\Policies\Ex
plorer", True)
            regKey.SetValue("NoControlPanel", 0)
            regKey.Close()
        End If
    End Sub

```

```

    Private Sub BtnClose_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles BtnClose.Click
        Me.Close()
    End Sub
End Class

```

Listing program pada form admin

```

Imports System
Imports System.Data.OleDb
Imports Microsoft.Win32
Imports System.Collections

Public Class FrmChangePassword
    Inherits System.Windows.Forms.Form
    Private WithEvents Glass As New fsButton.rtaGlassEffect

    Private Sub FrmChangePassword_Load(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles MyBase.Load
        If fsButton.rtaGlassEffect.GlassEnabled Then
            Glass.TopBarSize = 70
            Glass.LeftBarSize = 20
            Glass.RightBarSize = 20
            Glass.BottomBarSize = 25
            Glass.ShowEffect(Me, LblTitle, PicLogo)
        End If
        TxtNewUser.Focus()
        TxtNewUser.Clear()
        TxtNewPassword.Clear()
        DataGridView1.DataSource = objDataTable
    End Sub

    Private Sub TxtNewPassword_KeyPress(ByVal sender As Object, ByVal e As
System.Windows.Forms.KeyPressEventArgs) Handles TxtNewUser.KeyPress
        If e.KeyChar = Chr(13) Then
            TxtNewPassword.Select()
        End If
    End Sub

    Private Sub TxtConfirmPassword_KeyPress(ByVal sender As Object, ByVal e As
System.Windows.Forms.KeyPressEventArgs) Handles TxtNewPassword.KeyPress
        If e.KeyChar = Chr(13) Then
            BtnApply.Select()
        End If
    End Sub

    Private Sub BtnClose_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles BtnClose.Click
        Me.Close()
    End Sub

    Private Sub BtnApply_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles BtnApply.Click
        Dim CustomerID As String
        Dim dt As DataTable = dsCustomers.Tables("Login")

        For Each sItem As ListViewItem In lvList.SelectedItems

```

```

        CustomerID = sItem.Text
    Next
    State = gModule.FormState.adStateEditMode
    EditItemInListView()

    If State = gModule.FormState.adStateAddMode Then
        Dim newRow As DataRow
        newRow = dt.NewRow()
        newRow("Username") = TxtNewUser.Text
        newRow("Password") = TxtNewPassword.Text
        newRow("Keterangan") = "administrator"
    Else
        With dt
            .Rows(0)("Username") = TxtNewUser.Text
            .Rows(0)("Password") = TxtNewPassword.Text
            .Rows(0)("Keterangan") = "administrator"
        End With
        daCustomers.Update(dsCustomers, "Login")
    End If

    MsgBox("Perubahan data sukses !", MsgBoxStyle.Information)
    TxtNewUser.Clear()
    TxtNewPassword.Clear()
    TxtNewUser.Focus()
End Sub
End Class

```

Listing program pada form info

```

Public Class FrmInfo
    Private WithEvents Glass As New fsButton.rtaGlassEffect

    Private Sub FrmInfo_Load(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles MyBase.Load
        If fsButton.rtaGlassEffect.GlassEnabled Then
            Glass.TopBarSize = 70
            Glass.LeftBarSize = 20
            Glass.RightBarSize = 20
            Glass.BottomBarSize = 20
            Glass.ShowEffect(Me, LblTitle, PictureBox1)
        End If
        TxtOS.Text = My.Computer.Info.OSFullName
        TxtPlatform.Text = My.Computer.Info.OSPlatform
        TxtVersion.Text = My.Computer.Info.OSVersion
        TxtMemory.Text = My.Computer.Info.TotalPhysicalMemory
        TxtVM.Text = My.Computer.Info.TotalVirtualMemory
        TxtRunAs.Text = My.User.Name
        If My.User.IsInRole("Administrators") Then
            TxtUser.Text = "Administrator"
        Else
            TxtUser.Text = "User Biasa"
        End If
    End Sub
End Class

```

```

    Private Sub BtnClose_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles BtnClose.Click
        Me.Close()
    End Sub

    Private Sub BtnClose_KeyPress(ByVal sender As Object, ByVal e As
System.Windows.Forms.KeyPressEventArgs) Handles BtnClose.KeyPress
        If e.KeyChar = Chr(13) Then
            Me.Close()
        End If
    End Sub
End Class

```

Listing program pada form about

```

Public Class FrmAbout
    Private WithEvents Glass As New fsButton.rtaGlassEffect

    Private Sub FrmAbout_Load(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles MyBase.Load
        Dim ApplicationTitle As String
        If My.Application.Info.Title <> "" Then
            ApplicationTitle = My.Application.Info.Title
        Else
            ApplicationTitle =
System.IO.Path.GetFileNameWithoutExtension(My.Application.Info.AssemblyName)
        End If
        'Me.Text = String.Format("About {0}", ApplicationTitle)
        Me.LabelProductName.Text = My.Application.Info.ProductName
        Me.LabelVersion.Text = String.Format("Version {0}",
My.Application.Info.Version.ToString)
        Me.LabelCopyright.Text = My.Application.Info.Copyright
        Me.LabelCompanyName.Text = My.Application.Info.CompanyName
        Me.TextBoxDescription.Text = My.Application.Info.Description
        If fsButton.rtaGlassEffect.GlassEnabled Then
            Glass.TopBarSize = 70
            Glass.LeftBarSize = 20
            Glass.RightBarSize = 20
            Glass.BottomBarSize = 20
            Glass.ShowEffect(Me, LblTitle, PictureBox1)
        End If
    End Sub

    Private Sub BtnClose_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles BtnClose.Click
        Me.Close()
    End Sub

    Private Sub BtnClose_KeyPress(ByVal sender As Object, ByVal e As
System.Windows.Forms.KeyPressEventArgs) Handles BtnClose.KeyPress
        If e.KeyChar = Chr(13) Then
            Me.Close()
        End If
    End Sub
End Class

```