JURNAL KONSTRUKSI PERANGKAT LUNAK MODUL 15



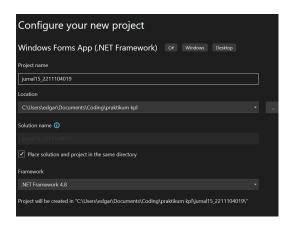
Oleh:

Muhammad Edgar Nadhif 2211104019 SE0601

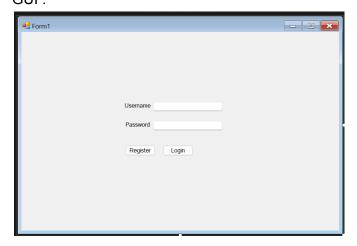
PROGRAM STUDI S1 SOFTWARE ENGINEERING FAKULTAS INFORMATIKA TELKOM UNIVERSITY PURWOKERTO

2025

1. Membuat project baru Jurnal15_2211104015



- 2. Membuat fitur
 - a. Registrasi user GUI:



Code:

```
private void InitializeComponent()
{
    this.btnRegister = new System.Windows.Forms.Button();
    this.btnToLogin = new System.Windows.Forms.Button();
    this.txtUsernameReg = new System.Windows.Forms.TextBox();
    this.txtPasswordReg = new System.Windows.Forms.TextBox();
    this.Label1 = new System.Windows.Forms.Label();
    this.Label2 = new System.Windows.Forms.Label();
    this.SuspendLayout();
    //
    // btnRegister
    //
    // btnRegister.Location = new System.Drawing.Point(295, 321);
    this.btnRegister.Mane = "btnRegister";
    this.btnRegister.Mane = "btnRegister";
    this.btnRegister.Size = new System.Drawing.Size(84, 29);
    this.btnRegister.Ist = "Register";
    this.btnRegister.Ist = "Register";
    this.btnRegister.Ist = "Register";
    this.btnRegister.Click += new System.EventHandler(this.btnRegister_Click);
    //
    // btnToLogin
    //
    // btnToLogin.Name = "btnToLogin";
    this.btnToLogin.Name = "btnToLogin";
    this.btnToLogin.Text = "Login";
    this.btnToLogin.Click += new System.EventHandler(this.btnToLogin_Click);
    //
    // txtUsernameReg
    //
    this.txtUsernameReg.Location = new System.Drawing.Point(374, 198);
    this.txtUsernameReg.Name = "txtUsernameReg";
    this.txtUsernameReg.Name = "txtUsernameReg";
    this.txtUsernameReg.TabIndex = 2;
    //
    // this.txtUsernameReg.TabIndex = 2;
    //
}
```

```
// txtPasswordReg
//
this.txtPasswordReg.Location = new System.Drawing.Point(374, 252);
this.txtPasswordReg.Mangin = new System.Windows.Forms.Padding(3, 4, 3, 4);
this.txtPasswordReg.Name = "txtPasswordReg";
this.txtPasswordReg.Size = new System.Drawing.Size(195, 26);
this.txtPasswordReg.TabIndex = 3;
//
//abell
//
this.labell.AutoSize = true;
this.labell.Location = new System.Drawing.Point(288, 198);
this.labell.I.Bame = "tabell";
this.labell.I.Size = new System.Drawing.Size(83, 28);
this.labell.TabIndex = 4;
this.labell.TabIndex = 4;
this.labell.TabIndex = 4;
this.labell.Zocation = new System.Drawing.Point(291, 252);
this.label2.Name = "tabel2";
this.label2.Name = "tabel2";
this.label2.Name = "tabel2";
this.label2.TabIndex = 5;
this.label2.Text = "Password";
//
// RegisterForm
```

```
// RegisterForm
/// RegisterForm
///
// RegisterForm
//
// RegisterForm
//
// RegisterForm
//

this. AutoScaleDimensions = new System.Drawing.SizeF(9F, 20F);
this. AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
this. ClientSize = new System.Drawing.Size(980, 562);
this. Controls. Add(this. label2);
this. Controls. Add(this. label2);
this. Controls. Add(this. txtUsernameReg);
this. Controls. Add(this. txtUsernameReg);
this. Controls. Add(this. bthTologin);
this. Controls. Add(this. bthRegister);
this. Margin = new System.Windows.Forms.Padding(3, 4, 3, 4);
this. Name = "RegisterForm";
this. Text = "Form!;
this. ResumeLayout(false);
this. PerformLayout();
}

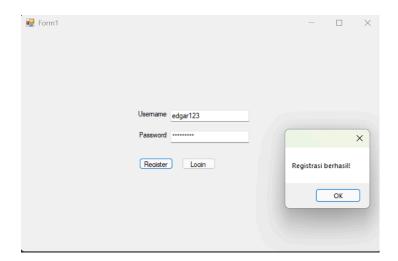
##endregion

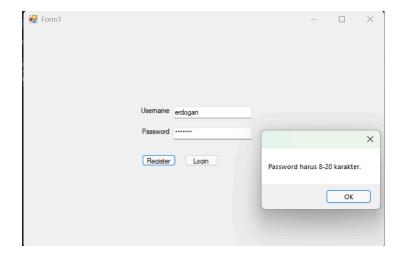
private System.Windows.Forms.Button btnRegister;
private System.Windows.Forms.Button btnRegister;
private System.Windows.Forms.TextBox txtPasswordReg;
private System.Windows.Forms.Label label2;
}

private System.Windows.Forms.Label label2;
}

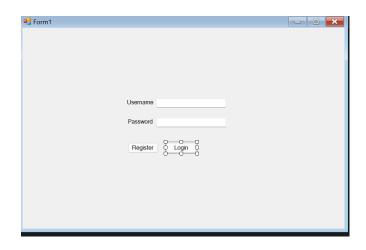
}
```

Hasil run jika berhasil





b. Login



```
private void InitializeComponent()

{    this trtUsernamet.ogin = new System Windows. Forms.TextBox();
    this.trtDassorr(login = new System Windows.Forms.Button();
    this.btRosgin = new System Windows.Forms.Button();
    this.btRosgin = new System.Windows.Forms.Button();
    this.btRosgin = new System.Windows.Forms.Button();
    this.btDPassword = new System.Windows.Forms.Button();
    this.btDRosgin = new System.Windows.Forms.Button();
    this.stsDepartmoneLogin.Location = new System.Brawing.Point(356, 162);
    this.trtUsernameLogin.Location = new System.Drawing.Point(356, 162);
    this.trtUsernameLogin.Margin = new System.Drawing.Point(356, 162);
    this.trtUsernameLogin.Name = "txtUsernameLogin";
    this.trtUsernameLogin.Size = new System.Drawing.Size(182, 26);
    this.trtUsernameLogin.Size = new System.Drawing.Size(182, 26);
    this.trtDasswordLogin.Location = new System.Drawing.Size(182, 26);
    this.trtDasswordLogin.Location = new System.Drawing.Size(182, 26);
    this.trtDasswordLogin.Drayin = new System.Drawing.Size(190, 26);
    this.trtPasswordLogin.Size = new System.Drawing.Size(190, 26);
    this.trtPasswordLogin.TabIndex = 1;
```

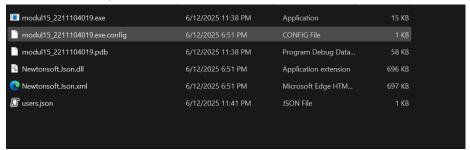
```
// btsLogin_Location = new System.Drawing.Point(258, 267);
this.btmlogin_Raryin = new System.Windows.Fares.Padding(3, 4, 3, 4);
this.btmlogin_Raryin = new System.Drawing.Size(84, 29);
this.btmlogin_Size = new System.Drawing.Size(84, 29);
this.btmlogin_Size(84, 29);
this.btmlogin_Color = "Login";
this.btmlogin_Color = new System.Drawing.Point(259, 162);
this.btmlogin_Color = new System.Drawing.Point(259, 162);
this.btmlogername.Location = new System.Drawing.Size(83, 28);
this.btmlogername.Size = "mew System.Drawing.Size(83, 28);
this.btmlogername.Size = "mew System.Drawing.Size(83, 28);
this.btmlogername.Size = "mew System.Drawing.Size(84, 289);
this.btmlogername.Text = "Username";
this.btmlogername.Text = "Username";
this.btmlogername.Text = "Username";
this.btmlogername.Text = "btmlogername";
this.btmlogername.Text = "btmlogername";
this.btmlogername.Text = "mew System.Drawing.Size(78, 28);
this.btmlogername.Text = "mew System.Drawing.Doint(254, 267);
this.btmlogerister.Text = "btmlogername";
this.btmlogerister.Size = new System.Drawing.Doint(356, 267);
this.btmlogerister.Size = new System.Drawing.Size(84, 29);
this.btmlogerister.Text = "Register";
this.btmlogerister.Text
```

```
this.lblPassmerd.AutoSize = true;
this.lblPassmerd AutoSize = "tblPassmord";
this.lblPassmerd Tablodes = "tblPassmord";
this.lblPassmerd Tablodes = "tblPassmord";
this.lblPassmerd Tablodes = "bltPassmord";
this.lblTablassmerd Tablodes = "bltPassmord";
this.lblTabl
```

Penjelasan singkat:

Kode di atas merupakan desain antarmuka dari form login pada aplikasi Windows Forms C#. Form ini terdiri dari dua TextBox untuk input username dan password, dua Label sebagai keterangan, serta dua Button yaitu untuk login dan pindah ke form registrasi. Tombol-tombol tersebut memiliki event handler (btnLogin_Click dan btnToRegister_Click) yang nantinya akan diisi logika pemrosesan. Seluruh komponen diatur posisinya menggunakan properti seperti Location dan Size, dan form memiliki ukuran default 900x562 piksel.

 Membuat file json untuk menyimpan user berinama users.json



3. Penerapan secure

Melalukan hash pada password yang akan disimpan di json