

## Lain-lain

### 1. Controller

#### Di BarangController

```
1 reference
public void hapusbarang(string id_barang)
{
    string hapus = "delete from barang where id_barang=" + id_barang;

    try
    {
        cmd = new MySQLConnector.MySqlCommand(hapus, GetConn());
        cmd.Parameters.Add("@id_barang", MySQLConnector.MySqlDbType.VarChar).Value = id_barang;
        cmd.ExecuteNonQuery();
    }
    catch (Exception ex)
    {
        MessageBox.Show("delete data gagal" + ex.Message);
    }
}
```

Contoh lain untuk nampilin table dari database

```
public DataTable selectTeacher(MySqlCommand command)
{
    DataTable date = new DataTable();
    try
    {
        string show = "SELECT * FROM teacher";
        da = new MySqlDataAdapter(show, GetConn());
        da.Fill(date);
    }
    catch (Exception ex)
    {
        MessageBox.Show(ex.Message);
    }
    return date;
}
3 references
```

Penerapannya di komponen

```
5 references
public void showTable()
{
    DataGridView_teacher.DataSource = teacherControl.selectTeacher(new MySqlCommand("SELECT * FROM teacher"));
    DataGridView_teacher.RowTemplate.Height = 80;
}
1 reference
```

*\*Panggil function nya di Form\_Load*

## 2. Membuat Event di DataGridView

Contoh :

```
private void DataGridView_addTeacher_Click(object sender, EventArgs e)
{
    textBox_nip.Text = DataGridView_teacher.CurrentRow.Cells[0].Value.ToString();
    textBox_firstname.Text = DataGridView_teacher.CurrentRow.Cells[1].Value.ToString();
    textBox_lastname.Text = DataGridView_teacher.CurrentRow.Cells[2].Value.ToString();
    dateTimePicker_date.Value = (DateTime)DataGridView_teacher.CurrentRow.Cells[3].Value;

    if (DataGridView_teacher.CurrentRow.Cells[4].Value.ToString() == "Man")
        radioButton_man.Checked = true;

    textBox_phone.Text = DataGridView_teacher.CurrentRow.Cells[5].Value.ToString();
    textBox_address.Text = DataGridView_teacher.CurrentRow.Cells[6].Value.ToString();
    comboBox_lastEduc.Text = DataGridView_teacher.CurrentRow.Cells[7].Value.ToString();
}
```

## 3. Membuat Validasi

Contoh :

Berikut codingan yang ada di dalam form

```
private void ManageTeacherForm_Load(object sender, EventArgs e)
{
    textBox_nip.MaxLength = 9;
    textBox_address.MaxLength = 45;
    textBox_firstname.MaxLength = 25;
    textBox_lastname.MaxLength = 25;
    textBox_phone.MaxLength = 13;
    comboBox_lastEduc.SelectedIndex = 0;
    showTable();
}
```

```
bool verify()
{
    if ((textBox_nip.Text == "") || (textBox_lastname.Text == "") || (textBox_firstname.Text == "") ||
        (textBox_phone.Text == "") || (textBox_address.Text == ""))
    {
        return false;
    }
    else
    {
        return true;
    }
}
```

Berikut codingan yang ada di controller

```
4 references
public bool valName(string name)
{
    for(int a = 0; a < name.Length; a++)
    {
        if ((name[a] >= '0' && name[a] <= '9') || name[0] == ' ' || name[name.Length - 1] == ' ' || name[a] == ':' ||
            name[a] == ',' || name[0] == '-' || name[name.Length - 1] == '-' ||
            name[a] == '/' || name[a] == '\\' || name[a] == '?')
        {
            MessageBox.Show("Input Name field", "Add student", MessageBoxButtons.OK, MessageBoxIcon.Warning);
            return false;
        }
    }
    return true;
}
```

```
4 references
public bool valAlamat(string alamat)
{
    for (int a = 0; a < alamat.Length; a++)
    {
        if ((alamat[a] >= '0' && alamat[a] <= '9') || alamat[0] == ' ' || alamat[alamat.Length - 1] == ' '
            || alamat[a] == ':' || alamat[a] == ',' || alamat[0] == '-' || alamat[alamat.Length - 1] == '-' ||
            alamat[a] == '/' || alamat[a] == '\\' || alamat[a] == '?')
        {
            MessageBox.Show("Input Address/Kota field", "Add student",
                MessageBoxButtons.OK, MessageBoxIcon.Warning);
            return false;
        }
    }
    return true;
}
```

Penerapannya di komponen

- Untuk button add

```
private void button_addReg_Click(object sender, EventArgs e)
{
    string gender = radioButton_man.Checked ? "Man" : "Woman";
    int born_year = dateTimePicker_date.Value.Year;
    int this_year = DateTime.Now.Year;
    if ((this_year - born_year) <= 21 || (this_year - born_year) >= 60){
        MessageBox.Show("Age 21 s/d 60 year", "Invalid", MessageBoxButtons.OK, MessageBoxIcon.Error);
    }else if (verify()){
        if(val.valName(textBox_firstnameReg.Text) && val.valName(textBox_lastnameReg.Text) &&
            val.valAlamat(textBox_addressReg.Text)){
            try{
                teacherControl.insertTeacher(textBox_nispReg.Text, textBox_firstnameReg.Text,
                    textBox_lastnameReg.Text, dateTimePicker_date.Value,
                    gender, textBox_phoneReg.Text, textBox_addressReg.Text, comboBox_lastEduc.Text);
                MessageBox.Show("New Teacher Added", "Add Teacher",
                    MessageBoxButtons.OK, MessageBoxIcon.Information);
                showTable();
                textBox_nispReg.Focus();
            }catch (Exception ex){
                MessageBox.Show(ex.Message, "Error ", MessageBoxButtons.OK, MessageBoxIcon.Error);
            }
        }
    }else{
        MessageBox.Show("Empety field", "Add Teacher", MessageBoxButtons.OK, MessageBoxIcon.Warning);
    }
}
```

- Untuk button update

```
private void button_update_Click(object sender, EventArgs e)
{
    string gender = radioButton_man.Checked ? "Man" : "Woman";

    int born_year = dateTimePicker_date.Value.Year;
    int this_year = DateTime.Now.Year;
    if ((this_year - born_year) <= 20 || (this_year - born_year) >= 60){
        MessageBox.Show("Age 20 s/d 60 year", "Invalid", MessageBoxButtons.OK, MessageBoxIcon.Error);
    }else if (verify()){
        if(val.valName(textBox_firstname.Text) && val.valName(textBox_lastname.Text) &&
            val.valAlamat(textBox_address.Text)){
            try{
                teacherControl.updateTeacher(textBox_nip.Text, textBox_firstname.Text,
                    textBox_lastname.Text, dateTimePicker_date.Value, gender,
                    textBox_phone.Text, textBox_address.Text, comboBox_lastEduc.Text);
                showTable();
                button_clear.PerformClick();
                MessageBox.Show("Teacher data Update", "Update Teacher",
                    MessageBoxButtons.OK, MessageBoxIcon.Information);
                textBox_nip.Focus();
            }catch (Exception ex){
                MessageBox.Show(ex.Message, "Error ", MessageBoxButtons.OK, MessageBoxIcon.Error);
            }
        }else{
            MessageBox.Show("Fieled Update", "Update Teacher", MessageBoxButtons.OK, MessageBoxIcon.Warning);
        }
    }
}
```

- Untuk button delete

```
private void button_delete_Click(object sender, EventArgs e)
{
    if (verify()){
        try
        {
            teacherControl.deleteTeacher(textBox_nip.Text);
            showTable();
            button_clear.PerformClick();
            MessageBox.Show("Teacher Deleted succesfully", "Delete Teacher",
                MessageBoxButtons.OK, MessageBoxIcon.Information);
            textBox_nip.Focus();
        }
        catch (Exception ex)
        {
            MessageBox.Show(ex.Message, "Error", MessageBoxButtons.OK, MessageBoxIcon.Error);
        }
    }else{
        MessageBox.Show("Error-Teacher not delete", "Delete Teacher",
            MessageBoxButtons.OK, MessageBoxIcon.Warning);
    }
}
```

#### 4. Validasi yang simple

```
private void textBox_nip_KeyPress(object sender, KeyPressEventArgs e)
{
    e.Handled = !char.IsDigit(e.KeyChar) && e.KeyChar != (char)Keys.Back;
}
```

```
1 reference
private void textBox_firstname_KeyPress(object sender, KeyPressEventArgs e)
{
    e.Handled = char.IsDigit(e.KeyChar) && e.KeyChar != (char)Keys.Back;
}
```

```
1 reference
private void textBox_address_KeyPress(object sender, KeyPressEventArgs e)
{
    e.Handled = char.IsDigit(e.KeyChar) && e.KeyChar != (char)Keys.Back;
}
```

```
1 reference
private void textBox_phone_KeyPress(object sender, KeyPressEventArgs e)
{
    e.Handled = !char.IsDigit(e.KeyChar) && e.KeyChar != (char)Keys.Back;
}
```

#### 5. Yang ada Di Controller selain CRUD

Contoh :

```
public string totalTeacher()
{
    return exeCount("SELECT COUNT(*) FROM teacher");
}
0 references
public string manTeacher()
{
    return exeCount("SELECT COUNT(*) FROM teacher WHERE Gender='Man'");
}
0 references
public string womanTeacher()
{
    return exeCount("SELECT COUNT(*) FROM teacher WHERE Gender='Woman'");
}
```

```

public DataTable searchTeacher(string search)
{
    DataTable table = new DataTable();
    try
    {
        MySqlCommand command = new MySqlCommand
            ("SELECT * FROM teacher WHERE CONCAT(NIP,FirstName,LastName,Birthdate,Gender," +
            "Phone,Address,LastEducation)LIKE '%" + search + "%'", koneksi.GetConn());
        MySqlDataAdapter adapter = new MySqlDataAdapter(command);
        adapter.Fill(table);
    }
    catch (Exception ex)
    {
        MessageBox.Show(ex.Message);
    }
    return table;
}

```

1 reference

## 6. Membuat button Clear

Contoh :

```

private void button_clear_Click(object sender, EventArgs e)
{
    textBox_nip.Clear();
    textBox_firstname.Clear();
    textBox_lastname.Clear();
    textBox_phone.Clear();
    textBox_address.Clear();
    radioButton_man.Checked = true;
    dateTimePicker_date.Value = DateTime.Now;
}

```

2 references

## 7. Membuat Print

```

1 reference
private void printDocument1_PrintPage(object sender, System.Drawing.Printing.PrintPageEventArgs e)
{
    Bitmap btm = new Bitmap(this.DataGridView_teacher.Width, this.DataGridView_teacher.Height);
    DataGridView_teacher.DrawToBitmap(btm, new Rectangle(0, 0, this.DataGridView_teacher.Width,
    this.DataGridView_teacher.Height));
    e.Graphics.DrawImage(btm, 40, 120);
    e.Graphics.DrawString(label1.Text, new Font("Consolas", 23, FontStyle.Bold), Brushes.Black, new Point(300, 50));
}

1 reference
private void button_print_Click(object sender, EventArgs e)
{
    printPreviewDialog1.Document = printDocument1;
    printPreviewDialog1.ShowDialog();
}

```

Sebelumnya harus membuat komponen : `printPreviewDialog` dan `printDocument`