Crear un proyecto de Windows Froms

A través de nuGet instalr:

* MicrosoftEntityFrameworkCore (usar la versión compatible con nuestra compilación “net core 6”)
* Pomelo.EntitiyFrameworkCore.MySql

Agregar una clase “Employee.cs” al proyecto, tendrá el código:

using Microsoft.EntityFrameworkCore;

namespace CRUD.Models

{

public class Employee

{

public int EmployeeID { get; set; }

public string FirstName { get; set; }

public string LastName { get; set; }

public DateTime BirthDate { get; set; }

}

public class AppDbContext : DbContext

{

public DbSet<Employee> employees { get; set; }

protected override void OnConfiguring(DbContextOptionsBuilder optionsBuilder)

{

optionsBuilder.UseMySql("server=localhost;port=3307;user=dam2;password=abc123.;database=w3schools;",

new MySqlServerVersion(new Version(8, 0, 27)));

}

//solo en caso de que el nombre de la clase sea distinto de la tabla

//protected override void OnModelCreating(ModelBuilder modelBuilder)

//{

// base.OnModelCreating(modelBuilder);

// // Specify the table name explicitly

// modelBuilder.Entity<Employee>().ToTable("employees");

//}

}

}

Creo una nueva clase “EmployeeController.cs” e introduzco el código

Crear una interface

using CRUD.Models;

namespace CRUD.Controllers

{

public class EmployeeController

{

private AppDbContext \_context;

public EmployeeController()

{

\_context = new AppDbContext();

}

public List<Employee> GetAllEmployees()

{

return \_context.employees.ToList();

}

public void AddEmployee(Employee employee)

{

\_context.employees.Add(employee);

\_context.SaveChanges();

}

public void UpdateEmployee(Employee employee)

{

var existingEmployee = \_context.employees.Find(employee.EmployeeID);

if (existingEmployee != null)

{

existingEmployee.FirstName = employee.FirstName;

existingEmployee.LastName = employee.LastName;

existingEmployee.BirthDate = employee.BirthDate;

\_context.SaveChanges();

}

}

public void DeleteEmployee(int employeeId)

{

var employee = \_context.employees.Find(employeeId);

if (employee != null)

{

\_context.employees.Remove(employee);

\_context.SaveChanges();

}

}

}

}

En su defecto copiar esto en el Form1.Designer.cs

#region Windows Form Designer generated code

/// <summary>

/// Required method for Designer support - do not modify

/// the contents of this method with the code editor.

/// </summary>

private void InitializeComponent()

{

this.dgvEmployees = new System.Windows.Forms.DataGridView();

this.txtFirstName = new System.Windows.Forms.TextBox();

this.txtLastName = new System.Windows.Forms.TextBox();

this.dtpBirthDate = new System.Windows.Forms.DateTimePicker();

this.btnAdd = new System.Windows.Forms.Button();

this.btnUpdate = new System.Windows.Forms.Button();

this.btnDelete = new System.Windows.Forms.Button();

this.lblFirstName = new System.Windows.Forms.Label();

this.lblLastName = new System.Windows.Forms.Label();

this.lblBirthDate = new System.Windows.Forms.Label();

((System.ComponentModel.ISupportInitialize)(this.dgvEmployees)).BeginInit();

this.SuspendLayout();

//

// dgvEmployees

//

this.dgvEmployees.AllowUserToAddRows = false;

this.dgvEmployees.AllowUserToDeleteRows = false;

this.dgvEmployees.ColumnHeadersHeightSizeMode = System.Windows.Forms.DataGridViewColumnHeadersHeightSizeMode.AutoSize;

this.dgvEmployees.Location = new System.Drawing.Point(12, 12);

this.dgvEmployees.MultiSelect = false;

this.dgvEmployees.Name = "dgvEmployees";

this.dgvEmployees.ReadOnly = true;

this.dgvEmployees.SelectionMode = System.Windows.Forms.DataGridViewSelectionMode.FullRowSelect;

this.dgvEmployees.Size = new System.Drawing.Size(450, 200);

this.dgvEmployees.TabIndex = 0;

//this.dgvEmployees.SelectionChanged += new System.EventHandler(this.dgvEmployees\_SelectionChanged);

//

// txtFirstName

//

this.txtFirstName.Location = new System.Drawing.Point(100, 230);

this.txtFirstName.Name = "txtFirstName";

this.txtFirstName.Size = new System.Drawing.Size(150, 22);

this.txtFirstName.TabIndex = 1;

//

// txtLastName

//

this.txtLastName.Location = new System.Drawing.Point(100, 260);

this.txtLastName.Name = "txtLastName";

this.txtLastName.Size = new System.Drawing.Size(150, 22);

this.txtLastName.TabIndex = 2;

//

// dtpBirthDate

//

this.dtpBirthDate.Format = System.Windows.Forms.DateTimePickerFormat.Short;

this.dtpBirthDate.Location = new System.Drawing.Point(100, 290);

this.dtpBirthDate.Name = "dtpBirthDate";

this.dtpBirthDate.Size = new System.Drawing.Size(150, 22);

this.dtpBirthDate.TabIndex = 3;

//

// btnAdd

//

this.btnAdd.Location = new System.Drawing.Point(300, 230);

this.btnAdd.Name = "btnAdd";

this.btnAdd.Size = new System.Drawing.Size(75, 30);

this.btnAdd.TabIndex = 4;

this.btnAdd.Text = "Agregar";

this.btnAdd.UseVisualStyleBackColor = true;

//this.btnAdd.Click += new System.EventHandler(this.btnAdd\_Click);

//

// btnUpdate

//

this.btnUpdate.Location = new System.Drawing.Point(300, 265);

this.btnUpdate.Name = "btnUpdate";

this.btnUpdate.Size = new System.Drawing.Size(75, 30);

this.btnUpdate.TabIndex = 5;

this.btnUpdate.Text = "Actualizar";

this.btnUpdate.UseVisualStyleBackColor = true;

//this.btnUpdate.Click += new System.EventHandler(this.btnUpdate\_Click);

//

// btnDelete

//

this.btnDelete.Location = new System.Drawing.Point(300, 300);

this.btnDelete.Name = "btnDelete";

this.btnDelete.Size = new System.Drawing.Size(75, 30);

this.btnDelete.TabIndex = 6;

this.btnDelete.Text = "Eliminar";

this.btnDelete.UseVisualStyleBackColor = true;

//this.btnDelete.Click += new System.EventHandler(this.btnDelete\_Click);

//

// lblFirstName

//

this.lblFirstName.AutoSize = true;

this.lblFirstName.Location = new System.Drawing.Point(12, 233);

this.lblFirstName.Name = "lblFirstName";

this.lblFirstName.Size = new System.Drawing.Size(62, 17);

this.lblFirstName.TabIndex = 7;

this.lblFirstName.Text = "Nombre:";

//

// lblLastName

//

this.lblLastName.AutoSize = true;

this.lblLastName.Location = new System.Drawing.Point(12, 263);

this.lblLastName.Name = "lblLastName";

this.lblLastName.Size = new System.Drawing.Size(65, 17);

this.lblLastName.TabIndex = 8;

this.lblLastName.Text = "Apellido:";

//

// lblBirthDate

//

this.lblBirthDate.AutoSize = true;

this.lblBirthDate.Location = new System.Drawing.Point(12, 293);

this.lblBirthDate.Name = "lblBirthDate";

this.lblBirthDate.Size = new System.Drawing.Size(52, 17);

this.lblBirthDate.TabIndex = 9;

this.lblBirthDate.Text = "Fecha:";

//

// MainForm

//

this.AutoScaleDimensions = new System.Drawing.SizeF(8F, 16F);

this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;

this.ClientSize = new System.Drawing.Size(484, 341);

this.Controls.Add(this.lblBirthDate);

this.Controls.Add(this.lblLastName);

this.Controls.Add(this.lblFirstName);

this.Controls.Add(this.btnDelete);

this.Controls.Add(this.btnUpdate);

this.Controls.Add(this.btnAdd);

this.Controls.Add(this.dtpBirthDate);

this.Controls.Add(this.txtLastName);

this.Controls.Add(this.txtFirstName);

this.Controls.Add(this.dgvEmployees);

this.Name = "MainForm";

this.Text = "Gestión de Empleados";

((System.ComponentModel.ISupportInitialize)(this.dgvEmployees)).EndInit();

this.ResumeLayout(false);

this.PerformLayout();

}

#endregion

private System.Windows.Forms.DataGridView dgvEmployees;

private System.Windows.Forms.TextBox txtFirstName;

private System.Windows.Forms.TextBox txtLastName;

private System.Windows.Forms.DateTimePicker dtpBirthDate;

private System.Windows.Forms.Button btnAdd;

private System.Windows.Forms.Button btnUpdate;

private System.Windows.Forms.Button btnDelete;

private System.Windows.Forms.Label lblFirstName;

private System.Windows.Forms.Label lblLastName;

private System.Windows.Forms.Label lblBirthDate;

Ponemos namespace CRUD.Views a los dos ficheros de presentación (Form1.cs y Form1.Deseigner.cs)

En el program program.cs hay que iniciar incluyendo la vista, por ejemplo:  
using CRUD.Views;

namespace CRUD

En el form1.cs añadimos:

using CRUD.Controllers;

using Microsoft.EntityFrameworkCore.Diagnostics;

namespace CRUD.Views {

public partial class Form1 : Form

{

private EmployeeController \_controller;

public Form1()

{

InitializeComponent();

\_controller = new EmployeeController();

LoadData();

}

private void LoadData()

{

dgvEmployees.DataSource = \_controller.GetAllEmployees();

}

Programo el evento que cambia la selección en el DataGridView para que cargue el contenido en los textBox para que derive a este método:

private void dgvEmployees\_SelectionChanged(object sender, EventArgs e)

{

if (dgvEmployees.SelectedRows.Count > 0)

{

var row = dgvEmployees.SelectedRows[0];

txtFirstName.Text = row.Cells["FirstName"].Value.ToString();

txtLastName.Text = row.Cells["LastName"].Value.ToString();

dtpBirthDate.Value = Convert.ToDateTime(row.Cells["BirthDate"].Value);

}

}