## Raport



كستك التكوين المهنئ وإنعكاش الششف

# Rapport de projet de fin d'étude

440UB SALEK TDI-A 2019/2020

### Pc Building

Ce projet est un application C# qui permet d'aider pour assemble un Pc à zéro par choisir les pièces de « Hardware »

**❖ Schéma de DataBase :** 



#### Le code SQL:

```
create database PC
use PC
--les client qui demander
create table Demand (id int primary key identity(1,1),cpu nvarchar(20),motherboard
nvarchar(20),ram nvarchar(20),graphiccard nvarchar(30),stockage nvarchar(30),
```

```
powerSupplay nvarchar(30),cooling nvarchar(30),case1 nvarchar(30),price money)
--le processeur
create table CPU(id int primary key, socket nvarchar(11), name nvarchar(20), cores
int,threads int, frequency float,price money)
insert into CPU values(1, 'AM4', 'RYZEN3_2200G',4,4,3.5,100)
insert into CPU values(2,'AM4','RYZEN5_1600AF',6,12,3.9,150)
insert into CPU values(3,'AM4','RYZEN5_3600G',6,12,4.5,160)
insert into CPU values(4, 'LGA1151V2', 'I3_8350k', 4, 4, 4, 0, 140)
insert into CPU values(5,'LGA1151V2','I5-9500',6,6,3.0,260)
insert into CPU values(6, 'LGA1151V2', 'I7-8700k', 6, 12, 4.0, 378)
--carte mere
create table motherboard(id int primary key, socket nvarchar(11), name
nvarchar(20),RamCount int,price money)
insert into motherboard values(1, 'AM4', 'MSI_B450M',4,126)
insert into motherboard values(2, 'AM4', 'ASUS_ROG_B450',4,189)
insert into motherboard values(3, 'LGA1151V2', 'ASROCK_B250',4,111)
insert into motherboard values(4, 'LGA1151V2', 'ASUS MAXIMUS XI', 8, 390)
-- RAM
create table RAM(id int primary key,name nvarchar(20),size int,price money)
insert into RAM values(1, 'SAMSUNG_A90',8,40)
insert into RAM values(2, 'HYPER300',4,30)
insert into RAM values(3, 'HYPER120',2,10)
--graphicCard
create table graphicCard(id int primary key,name nvarchar(30),MemorySize int,price
money)
insert into graphicCard values(1, 'RX550',2,145)
insert into graphicCard values(2, 'GTX1050Ti',4,150)
insert into graphicCard values(3, 'GTX1080Ti', 8, 727)
--Stockage
create table stockage(id int primary key, name nvarchar(30), type1 nvarchar(10), size
nvarchar(5),price money)
insert into stockage values(1, 'SEGATE_ST', 'HDD', '1TB', 58)
insert into stockage values(2, 'SAMSUNG_860', 'SSD', '240GB', 30)
insert into stockage values(3,'SEGATE_500TY','HDD','3TB',140)
insert into stockage values(4, 'HYPER_ST', 'M.2', '1TB', 340)
--powerSupplay
create table powerSupply(id int primary key,name nvarchar(30),power1 int,price money)
insert into powerSupply values(1, 'AERCOL VX 700W', 700, 126)
insert into powerSupply values(2, 'ZALMVN_ZM_850W',850,155)
insert into powerSupply values(3, 'AERCOL_VXI_1000W',100,200)
--cooling
create table cooling(id int primary key, socket nvarchar(20), type1 nvarchar(20), name
nvarchar(30),price money)
insert into cooling values (1, 'AM4', 'AIR COOLER', 'COOLER MASTER AIR8', 67)
insert into cooling values (2,'LGA1151V2','AIR_COOLER','COOLER MASTER RYZEN',57)
insert into cooling values (3,'AM4+LGA1151V2','WATER_COOLER','COOLER_MASTER_AIR8',87)
--case
create table case1(id int primary key,name nvarchar(30),price money)
insert into case1 values(1, 'coolerMaster H500M', 38)
```

```
insert into case1 values(2,'coolerMaster MB530P',58)
insert into case1 values(3,'APPLE_MAC_PRO',134)

--chpping
create table chipping(country nvarchar(20),
motherboard int references motherboard(id),
cpu int references CPU(id),
ram int references RAM(id),
graphiccard int references graphicCard(id),
stockage int references stockage(id),
powerSupplay int references powerSupply(id),
cooling int references cooling(id),
case1 int references case1(id),
price money)
```

#### **❖** Partie C# :

#### **Form 1:**

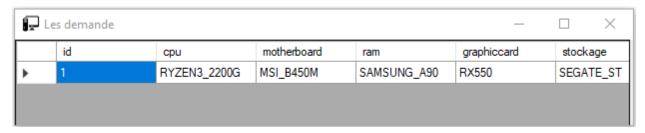


```
private void Form1_Load(object sender, EventArgs e)
{
    label1.BackColor = System.Drawing.Color.Transparent;
}

private void button1_Click(object sender, EventArgs e)
{
    Form4 f = new Form4();
    f.Show();
}

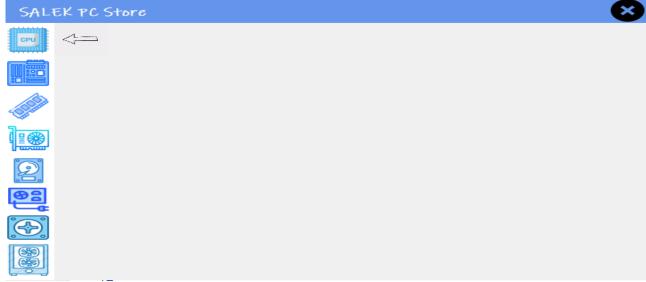
private void button2_Click(object sender, EventArgs e)
{
    Form2 f = new Form2();
    this.Hide();
    f.Show();
}
```

#### 1. Button : les demande déjà fait



```
private void Form2_Load(object sender, EventArgs e)
{
     var demande = pc.Demands.ToList();
     dataGridView1.DataSource = demande;
}
```

#### La button: start you're own build



si tu es Click on Picture CPU tu peux choisir votre Processeur par click a ca photo pour afficher aussi les détails de ce processeur :





```
public partial class UserControl1 : UserControl
        public int aaa { get; set; }
        PCEntities pc = new PCEntities();
        private void pictureBox1_Click(object sender, EventArgs e)
            dataGridView1.DataSource = pc.CPUs.Where(x => x.id == 1).ToList();
            aaa = 1;
        private void pictureBox2 Click(object sender, EventArgs e)
            dataGridView1.DataSource = pc.CPUs.Where(x => x.id == 2).ToList();
            aaa = 2;
        private void pictureBox3_Click(object sender, EventArgs e)
            dataGridView1.DataSource = pc.CPUs.Where(x => x.id == 3).ToList();
            aaa = 3;
        private void pictureBox4 Click(object sender, EventArgs e)
            dataGridView1.DataSource = pc.CPUs.Where(x => x.id == 4).ToList();
            aaa = 4;
        private void pictureBox5 Click(object sender, EventArgs e)
            dataGridView1.DataSource = pc.CPUs.Where(x => x.id == 5).ToList();
            aaa = 5;
        private void pictureBox6 Click(object sender, EventArgs e)
            dataGridView1.DataSource = pc.CPUs.Where(x => x.id == 6).ToList();
            aaa = 6;
        private void button_Valider_Click(object sender, EventArgs e)
            if (aaa < 1 || aaa >6 )
            {MessageBox.Show("choix inconnue");}
            else
                MessageBox.Show(" bien enregistre");
                this.Hide();
            }}}
 SALEK PC Store
                               Choisir votre cart mere

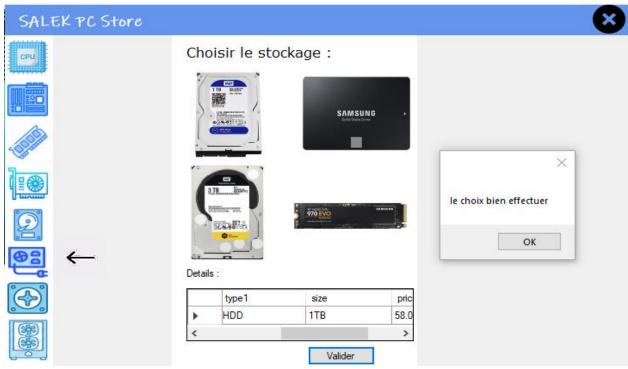
\leftarrow

                                                                       bien enregistrer
                                                                             OK
                             socket
                                         name
                                                      RamCount
                                         MSI_B450M
                                        Valide
```

```
public partial class CARTMEREuser : UserControl
        PCEntities pc = new PCEntities();
        public int mmm { get; set; }
        public CARTMEREuser()
            InitializeComponent();
        private void pictureBox1_Click(object sender, EventArgs e)
            dataGridView1.DataSource = pc.motherboards.Where(x => x.id == 1).ToList();
            mmm = 1;
        private void pictureBox2 Click(object sender, EventArgs e)
            dataGridView1.DataSource = pc.motherboards.Where(x => x.id == 2).ToList();
            mmm = 2;
        private void pictureBox3 Click(object sender, EventArgs e)
            dataGridView1.DataSource = pc.motherboards.Where(x => x.id == 3).ToList();
            mmm = 3;
        private void pictureBox4 Click(object sender, EventArgs e)
            dataGridView1.DataSource = pc.motherboards.Where(x => x.id == 4).ToList();
            mmm = 4;
        private void button1_Click(object sender, EventArgs e)
            if(mmm< 1 || mmm>4)
            {MessageBox.Show("choisir votre cart mere");}
            else
                MessageBox.Show("bien enregistrer");
                this.Hide();
            }}}
 SALEK PC Store
                                Choisir la RAM
                                                                 bien enregistrer
                                                                       OK
                         Details
                               name
                                                      price
                              HYPER120
                                          2
                                                      10.0000
                                       Valide
```

```
public partial class RAMuser : UserControl
        public decimal capacity { get; set; }
        public int rrr { get; set; }
        PCEntities pc = new PCEntities();
        public RAMuser()
            InitializeComponent();
        private void pictureBox1_Click(object sender, EventArgs e)
            dataGridView1.DataSource = pc.RAMs.Where(x => x.id == 3).ToList();
            rrr = 3;
            numericUpDown1.Visible = true;
        private void RAMuser_Load(object sender, EventArgs e)
            numericUpDown1.Visible = false;
        private void pictureBox2 Click(object sender, EventArgs e)
            dataGridView1.DataSource = pc.RAMs.Where(x => x.id == 2).ToList();
            rrr = 2;
            numericUpDown1.Visible = false;
        private void pictureBox3_Click(object sender, EventArgs e)
            dataGridView1.DataSource = pc.RAMs.Where(x => x.id == 1).ToList();
            rrr =1;
            numericUpDown1.Visible = false;
        private void button1_Click(object sender, EventArgs e)
            capacity = numericUpDown1.Value;
            if(rrr<1 || rrr > 3)
            { MessageBox.Show("choisir votre RAM"); }
            else { MessageBox.Show("bien enregistrer");
            this.Hide();
        }}}
  SALEK PC Store
                          Choisir votre carte graphic:
                                                                     bien enregistrer
                                           Memory Size
                               name
                                                        price
                              GTX1080Ti
                                                       727.0000
                                          Valider
```

```
public partial class graphiCard : UserControl
        PCEntities pc = new PCEntities();
        public int ggg { get; set; }
        public graphiCard()
            InitializeComponent();
        private void pictureBox1_Click(object sender, EventArgs e)
            dataGridView1.DataSource = pc.graphicCards.Where(x => x.id == 1).ToList();
            ggg = 1;
       private void pictureBox2_Click(object sender, EventArgs e)
            dataGridView1.DataSource = pc.graphicCards.Where(x => x.id == 2).ToList();
            ggg = 2;
        private void pictureBox3_Click(object sender, EventArgs e)
            dataGridView1.DataSource = pc.graphicCards.Where(x => x.id == 3).ToList();
            ggg = 3;
        private void button1_Click(object sender, EventArgs e)
            if (ggg < 1 || ggg > 4)
     MessageBox.Show("alors tu choisir aucun carte graphic pas de problem c'est optionelle");
                MessageBox.Show("bien enregistrer");
                this.Hide();
            }
            else
                MessageBox.Show("bien enregistrer");
                this.Hide();
            }}}
```

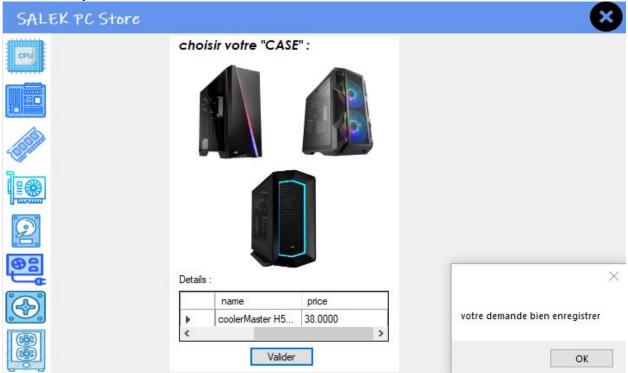


```
public partial class ssdHDD : UserControl
        PCEntities pc = new PCEntities();
        public int stok { get; set; }
        public ssdHDD()
            InitializeComponent();
        private void pictureBox1_Click(object sender, EventArgs e)
            dataGridView1.DataSource = pc.stockages.Where(x => x.id == 1).ToList();
            stok = 1;
        private void pictureBox2_Click(object sender, EventArgs e)
            dataGridView1.DataSource = pc.stockages.Where(x => x.id == 2).ToList();
        private void pictureBox3_Click(object sender, EventArgs e)
            dataGridView1.DataSource = pc.stockages.Where(x => x.id == 3).ToList();
            stok = 3;
        private void pictureBox4_Click(object sender, EventArgs e)
            dataGridView1.DataSource = pc.stockages.Where(x => x.id == 4).ToList();
            stok = 4;
        private void button1_Click(object sender, EventArgs e)
            if(stok<1 || stok>4)
            { MessageBox.Show("choisir le stockage"); }
            else
                MessageBox.Show("le choix bien effectuer");
                this.Hide();
            }}}
 SALEK PC Store
                            Choisir votre Boite d'allumentation :
                                                                    le choix bien effectuer
                               Details
                                                                                OK
                                               power1
                                                            price
                                     VN_ZM_8...
                                                            155.00
                                              850
                                                     Valider
```

```
public partial class power : UserControl
        public int pow {get;set;}
        PCEntities pc = new PCEntities();
        public power()
            InitializeComponent();
       private void button1_Click(object sender, EventArgs e)
            if (pow < 1 || pow > 3)
            { MessageBox.Show("choisir la boite d'alumentation "); }
            else
                MessageBox.Show("le choix bien effectuer");
                this.Hide();
       private void pictureBox1_Click(object sender, EventArgs e)
            dataGridView1.DataSource = pc.powerSupplies.Where(x => x.id == 1).ToList();
            pow = 1;
        private void pictureBox2_Click(object sender, EventArgs e)
            dataGridView1.DataSource = pc.powerSupplies.Where(x => x.id == 2).ToList();
       private void pictureBox3_Click(object sender, EventArgs e)
            dataGridView1.DataSource = pc.powerSupplies.Where(x => x.id == 3).ToList();
            pow = 3;
        }}}
  SALEK PC Store
```

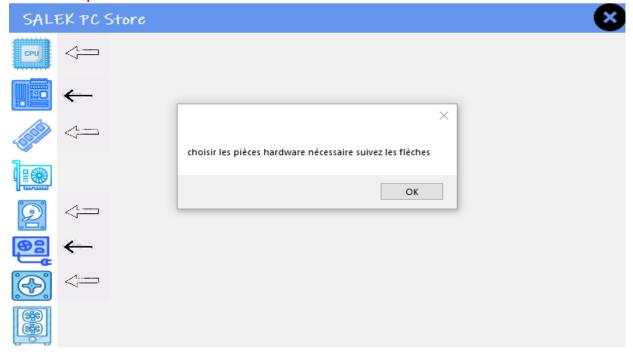


```
public partial class CPUcooling : UserControl
        PCEntities pc = new PCEntities();
        public int cpufan { get; set; }
        public CPUcooling()
            InitializeComponent();
        private void pictureBox1_Click(object sender, EventArgs e)
            dataGridView1.DataSource= pc.coolings.Where(x => x.id == 1).ToList();
            cpufan = 1;
       private void pictureBox2_Click(object sender, EventArgs e)
            dataGridView1.DataSource = pc.coolings.Where(x => x.id == 2).ToList();
            cpufan = 2;
        private void pictureBox3_Click(object sender, EventArgs e)
            dataGridView1.DataSource = pc.coolings.Where(x => x.id == 3).ToList();
            cpufan = 3;
        private void button1_Click(object sender, EventArgs e)
            if(cpufan == 0)
                MessageBox.Show("choisir un Cooler !!!");
            }
            else
                MessageBox.Show("bien enregistrer");
                this.Hide();
```



```
public partial class casee : UserControl
        PCEntities pc = new PCEntities();
        public int caseID { get; set; }
        public casee()
            InitializeComponent();
        private void pictureBox2_Click(object sender, EventArgs e)
            dataGridView1.DataSource = pc.case1.Where(x => x.id == 2).ToList();
            caseID = 2;
       private void pictureBox1_Click(object sender, EventArgs e)
            dataGridView1.DataSource = pc.case1.Where(x => x.id == 1).ToList();
            caseID = 1;
        private void pictureBox3_Click(object sender, EventArgs e)
            dataGridView1.DataSource = pc.case1.Where(x => x.id == 3).ToList();
            caseID = 3;
        private void button1_Click(object sender, EventArgs e)
            if (caseID < 1 || caseID > 3)
                MessageBox.Show("choisir votre case !");
            }
            else
                MessageBox.Show("votre demande bien enregistrer");
                this.Hide();
            }}}
```

Si tu choisir pas un ou plusieurs pièces le programme afficher des flèches a ces pièces :



Le code qui permettre d'afficher les effets, les photos et d'afficher les message d'erreurs en plus de stockes les informations :

```
public partial class Form1 : System.Windows.Forms.Form
        PCEntities pc = new PCEntities();
        public int CPUID = 0;
        public int cartmere = 0;
        public int GPU = 0;
        public int RAM = 0;
        public decimal ramCapacity = 0;
        public int stockage = 0;
        public int cooling = 0;
        public int powerS = 0;
        public int case1 = 0;
        public Form4( )
        {
            InitializeComponent();
        private void pictureBox2_Click(object sender, EventArgs e)
            cpUcooling1.Visible = false;
            casee1.Visible = false;
            userControl11.Visible = true;
            pictureBox10.Visible = false;
            pictureBox11.Visible = true;
            cartmerEuser1.Visible = false;
            graphiCard1.Visible = false;
            raMuser1.Visible = false;
            ssdHDD1.Visible = false;
            power1.Visible = false;
            cpUcooling1.Visible = false;
               }
private void pictureBox3 Click(object sender, EventArgs e)
            cpUcooling1.Visible = false;
            casee1.Visible = false:
            userControl11.Visible = false;
            graphiCard1.Visible = false;
            raMuser1.Visible = false;
            ssdHDD1.Visible = false;
            power1.Visible = false;
            cartmerEuser1.Visible = true;
            pictureBox11.Visible = false;
            pictureBox12.Visible = true;
            using (UserControl1 uc = new UserControl1())
                this.CPUID = userControl11.aaa;
        private void pictureBox4_Click(object sender, EventArgs e)
            cpUcooling1.Visible = false;
            casee1.Visible = false;
            userControl11.Visible = false;
            graphiCard1.Visible = false;
            ssdHDD1.Visible = false;
            power1.Visible = false;
```

```
pictureBox12.Visible = false;
            pictureBox13.Visible = true;
            raMuser1.Visible = true;
            cartmerEuser1.Visible = false;
            using (CARTMEREuser cv = new CARTMEREuser())
                this.cartmere = cartmerEuser1.mmm;
        private void pictureBox5 Click(object sender, EventArgs e)
            cpUcooling1.Visible = false;
            casee1.Visible = false;
            userControl11.Visible = false;
            raMuser1.Visible = false;
            ssdHDD1.Visible = false;
            power1.Visible = false;
            pictureBox13.Visible = false;
            pictureBox14.Visible = true;
            using (RAMuser ra = new RAMuser())
                this.ramCapacity = raMuser1.capacity;
                this.RAM = raMuser1.rrr;
            graphiCard1.Visible = true;
            cartmerEuser1.Visible = false;
private void pictureBox6_Click(object sender, EventArgs e)
            cpUcooling1.Visible = false;
            casee1.Visible = false;
            cartmerEuser1.Visible = false:
            userControl11.Visible = false;
            raMuser1.Visible = false;
            power1.Visible = false;
            pictureBox14.Visible = false;
            graphiCard1.Visible = false;
            pictureBox15.Visible = true;
            ssdHDD1.Visible = true;
            using (graphiCard gf = new graphiCard())
                this.GPU = graphiCard1.ggg;
        private void pictureBox7_Click(object sender, EventArgs e)
            cpUcooling1.Visible = false;
            casee1.Visible = false;
            cartmerEuser1.Visible = false;
            userControl11.Visible = false;
            graphiCard1.Visible = false;
            raMuser1.Visible = false;
            ssdHDD1.Visible = false;
            power1.Visible = true;
            pictureBox15.Visible = false;
            pictureBox16.Visible = true;
            using (ssdHDD st = new ssdHDD())
```

```
this.stockage = ssdHDD1.stok;
            }
        private void pictureBox8_Click(object sender, EventArgs e)
            casee1.Visible = false;
            cpUcooling1.Visible = true;
            cartmerEuser1.Visible = false;
            userControl11.Visible = false;
            graphiCard1.Visible = false;
            raMuser1.Visible = false;
            ssdHDD1.Visible = false;
            power1.Visible = false;
            pictureBox16.Visible = false;
            pictureBox17.Visible = true;
            using (power st = new power())
                this.powerS = power1.pow;
        private void pictureBox9 Click(object sender, EventArgs e)
            cpUcooling1.Visible = false;
            cartmerEuser1.Visible = false;
            userControl11.Visible = false;
            graphiCard1.Visible = false;
            raMuser1.Visible = false;
            ssdHDD1.Visible = false;
            power1.Visible = false;
            pictureBox17.Visible = false;
            using (CPUcooling cc = new CPUcooling())
                this.cooling = cpUcooling1.cpufan;
                if (CPUID != 0 && cartmere != 0 && RAM != 0 && stockage != 0 && cooling
!= 0 && powerS != 0)
                casee1.Visible = true;
                button1.Visible = true;
                    pictureBox18.Visible = true;
                    pictureBox17.Visible = false;
                }//GPU optionnell
             if (CPUID == 0){ pictureBox10.Visible = true; MessageBox.Show("choisir les
pièces hardware nécessaire suivez les flèches");
            if (cartmere == 0) { pictureBox11.Visible = true; MessageBox.Show("choisir
les pièces hardware nécessaire suivez les flèches");
            if (RAM == 0) { pictureBox12.Visible = true; MessageBox.Show("choisir les
pièces hardware nécessaire suivez les flèches");
            if (stockage == 0) { pictureBox14.Visible = true; MessageBox.Show("choisir
les pièces hardware nécessaire suivez les flèches");
            if (cooling == 0) { pictureBox16.Visible = true; MessageBox.Show("choisir les
pièces hardware nécessaire suivez les flèches");
            if (powerS == 0) { pictureBox15.Visible = true; MessageBox.Show("choisir les
pièces hardware nécessaire suivez les flèches");
```

```
}
private void toolTip1_Draw(object sender, DrawToolTipEventArgs e)
            e.DrawBackground();
            e.DrawBorder();
            e.DrawText();
        private void pictureBox1 Click(object sender, EventArgs e)
            this.Hide();
        private void pictureBox2_MouseHover(object sender, EventArgs e)
            toolTip1.Show("le Processeur", pictureBox2);
            toolTip1.OwnerDraw = true;
            toolTip1.ForeColor = Color.Red;
            toolTip1.BackColor = Color.Yellow;
        private void pictureBox3_MouseHover(object sender, EventArgs e)
            toolTip1.Show("la cart mere", pictureBox3);
            toolTip1.OwnerDraw = true;
            toolTip1.ForeColor = Color.Red;
            toolTip1.BackColor = Color.Yellow;
        private void pictureBox4 MouseHover(object sender, EventArgs e)
            toolTip1.Show("la Ram", pictureBox4);
            toolTip1.OwnerDraw = true;
            toolTip1.ForeColor = Color.Red;
            toolTip1.BackColor = Color.Yellow;
        }
private void pictureBox5_MouseHover(object sender, EventArgs e)
            toolTip1.Show("la cart graphic", pictureBox5);
            toolTip1.OwnerDraw = true;
            toolTip1.ForeColor = Color.Red;
            toolTip1.BackColor = Color.Yellow;
        private void pictureBox6 MouseHover(object sender, EventArgs e)
            toolTip1.Show("le Stockage/SSD HDD", pictureBox6);
            toolTip1.OwnerDraw = true;
            toolTip1.ForeColor = Color.Red;
            toolTip1.BackColor = Color.Yellow;
        private void pictureBox7 MouseHover(object sender, EventArgs e)
            toolTip1.Show("la boit d'allumentation", pictureBox7);
            toolTip1.OwnerDraw = true;
            toolTip1.ForeColor = Color.Red;
            toolTip1.BackColor = Color.Yellow;
        }
        private void pictureBox8_MouseHover(object sender, EventArgs e)
            toolTip1.Show("CPU FAN/Cooler", pictureBox8);
            toolTip1.OwnerDraw = true;
```

```
toolTip1.ForeColor = Color.Red;
    toolTip1.BackColor = Color.Yellow;
private void pictureBox9_MouseHover(object sender, EventArgs e)
    toolTip1.Show("Case", pictureBox9);
    toolTip1.OwnerDraw = true;
    toolTip1.ForeColor = Color.Red;
    toolTip1.BackColor = Color.Yellow;
}
private void Form4_Load(object sender, EventArgs e)
    button1.Visible = false;
    cartmerEuser1.Visible = false;
    userControl11.Visible = false;
    graphiCard1.Visible = false;
    raMuser1.Visible = false;
    ssdHDD1.Visible = false;
    power1.Visible = false;
    casee1.Visible = false;
    cpUcooling1.Visible = false;
    pictureBox11.Visible = false;
    pictureBox12.Visible = false;
    pictureBox13.Visible = false;
    pictureBox14.Visible = false;
    pictureBox15.Visible = false;
    pictureBox16.Visible = false;
    pictureBox17.Visible = false;
    pictureBox18.Visible = false;
 }
```

✓ Après choisir tous les pièces hardware nécessaires le programme affiche un Button enregistrer qui permit de sauvegarder les informations dans la database :



```
private void button1_Click(object sender, EventArgs e)
     using (casee ca = new casee())
          this.case1 = casee1.caseID;
     try
        var CPU = pc.CPUs.Where(x => x.id == CPUID).Select(x => new \{ x.name \}).ToList();
        var ram = pc.RAMs.Where(x => x.id ==RAM).Select(x => new { x.name }).ToList();
        var MB = pc.motherboards.Where(x => x.id == cartmere).Select(x => new { x.name
}).ToList();
        var GC = pc.graphicCards.Where(x => x.id == GPU).Select(x => new { x.name
}).ToList();
        var SSD = pc.stockages.Where(x => x.id == stockage).Select(x => new { x.name
}).ToList();
       var PS = pc.powerSupplies.Where(x \Rightarrow x.id == powerS).Select(x \Rightarrow new { x.name
}).ToList();
       var Fan = pc.coolings.Where(x => x.id == cooling).Select(x => new { x.name
}).ToList();
       var Case = pc.case1.Where(x => x.id == case1).Select(x => new { x.name
}).ToList();
pc.Database.ExecuteSqlCommand("insert into Demand
values(\{1\},\{2\},\{3\},\{4\},\{5\},\{6\},\{7\},\{8\},\{9\})", CPU, MB, ram, GC, SSD, PS, Fan, Case, 99);\\
            catch { MessageBox.Show("error"); }
J'ai créé des user control dans ce projet voilà :
```

Toolbox

Search Toolbox

WindowsFormsApplication1 C...

Pointer

CARTMEREuser

casee

CPUcooling

graphiCard

power

RAMuser

ssdHDD

UserControl1

All Windows Forms

