Compte rendu:

La déclaration des variables globales du formulaire de départ

```
private TableauDeBord tableauDeBord;
private AjoutMissions ajoutMissions;
private GestionEngins gestionEngins;
private GestionPerso gestionPerso;
private Statistique stats;
private SQLiteConnection con;
private DataSet monDs;
private DataTable dtMissionsFormatees;
private Bouton btnActuel;

// Déclarer le volet de gestion des engins
// Déclarer le volet de gestion du personnel
// Déclarer le volet de statistiques
private SQLiteConnection con;
péclarer le volet de destion du personnel
// Déclarer le volet de statistiques
// Déclarer le volet de gestion des engins
```

 Le code complet du formulaire (ou UserControl) dans lequel vous permettez le choix d'un pompier, puis affichez les informations complètes concernant un pompier

```
private void UCGestionPerso_Load(object sender, EventArgs e)
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
71
72
73
74
75
76
77
78
                                   try
{
                                          //On remplit le panel avec des boutons (Caserne)
string caserneCommand = "SELECT nom, id FROM Caserne";
SQLiteCommand cmd = new SQLiteCommand(caserneCommand, _con);
SQLiteDataReader data = cmd.ExecuteReader();
                                           while(data.Read())
                                                  string nom = data.GetString(0);
string id = data.GetValue(1).ToString();
                                                 UCRichButton btn = new UCRichButton(nom);
btn.Tag = id;
                                                  btn.clickReturnTag += btnClickForCaserne;
                                                  flpCaserne.Controls.Add(btn);
                                          //On charge nos combobox
ChargercboGrade();
ChargercboCaserne();
                                    catch(Exception ex)
                                           MessageBox.Show(ex.ToString());
                            private void btnClickForCaserne(UCRichButton clicked, object tag)
80
81
82
83
84
85
86
87
88
89
91
92
93
94
95
96
                                    if(Selected != null && Selected != clicked)
                                          Selected.isSelected = false;
Selected.BackColor = Color.White;
Selected.ForeColor = Color.Black;
                                   clicked.isSelected = true;
Selected = clicked;
                                   grpCaserne.Visible = false;
grpContact.Visible = false;
grpIdentite.Visible = false;
                                    lblMatricule.Visible = false;
                                   btnInfo.Visible = false;
                                   refreshPompier();
```

```
private void btnClickPompier(UCRichButton clicked, object tag)

{
    if(SelectedPompier != null && clicked != SelectedPompier)
    {
        SelectedPompier.isSelected = false;
        SelectedPompier.BackColor = Color.White;
        SelectedPompier.ForeColor = Color.Black;
    }
    clicked.isSelected = true;
    SelectedPompier = clicked;
    formPompier();
}

102

103

104

105

106

107

108

109

109

110

111

111

112
```

```
Vola retresurompler()
                                 if(Selected.Tag == null)
                                      return;
                                 flpPompier.Controls.Clear();
string cmdPompier = $@"SELECT matriculePompier FROM Affectation WHERE idCaserne = {Selected.Tag}";
SQLiteCommand cd = new SQLiteCommand(cmdPompier, _con);
                                 SQLiteDataReader dr = cd.ExecuteReader();
                                 while(dr.Read())
                                      int id = dr.GetInt32(0);
string cmdNom = $0"SELECT CONCAT(prenom, ' ', nom) FROM Pompier WHERE matricule = {id}";
SQLiteCommand cd1 = new SQLiteCommand(cmdNom, _con);
                                      string nom = (string)cdl.ExecuteScalar();
                                      string cmdGrade = $@"SELECT codeGrade FROM Pompier WHERE matricule = {id}";
                                      SQLiteCommand cd2 = new SQLiteCommand(cmdGrade, _con);
string grade = (string)cd2.ExecuteScalar();
                                      UCRichButton btn;
if(grade != null)
                                           var varing = SAE_Aparcio_Claudel_Meral.Properties.Resources.ResourceManager.GetObject(grade);
if(varing is Image img)
140
141
                                                btn = new UCRichButton(nom, id.ToString(), (Image)varimg);
                                                btn = new UCRichButton(nom, id.ToString(), SAE_Aparcio_Claudel_Meral.Properties.Resources.SAP
                                           btn.Width = flpPompier.Width - 30;
150
151
152
153
                                           btn.Tag = id;
btn.clickReturnTag += btnClickPompier;
flpPompier.Controls.Add(btn);
                                 dr.Close();
157
158
159
160
                                 MessageBox.Show("Erreur : connexion fermée !");
                            catch(SQLiteException)
                                 MessageBox.Show("Erreur dans la requête SQL !");
                            catch(Exception err)
                                 MessageBox.Show(err.ToString());
```

```
private void formPompier()
174
                      try
175
                          InitPompierInfo();
                          grpIdentite.Visible = true;
                          grpContact.Visible = true;
                          lblMatricule.Visible = true;
                          btnInfo.Visible = true;
181
                          int id = Convert.ToInt32(SelectedPompier.Tag);
182
                          lblMatricule.Text = "Matricule " + id;
                          lblMatricule.Tag = id;
185
                          string requete = $@"SELECT * FROM Pompier WHERE matricule = {id}";
186
                          SQLiteCommand cd = new SQLiteCommand(requete, _con);
187
                          SQLiteDataReader dr = cd.ExecuteReader();
189
                          while(dr.Read())
192
                               lblNom.Text = dr.GetString(1);
                               lblPrenom.Text = dr.GetString(2);
lblSexe.Text = dr.GetString(3);
lblDateNaissance.Text = dr.GetString(4);
194
                               string type = dr.GetString(5);
198
199
                               if(type == "p")
                                   rdbPro.Checked = true;
203
                               else if(type == "v")
204
                               {
                                   rdbVolontaire.Checked = true;
                               lblTel.Text = dr.IsDBNull(6) ? "Non renseigné" : dr.GetString(6);
                               lblBip.Text = dr.GetInt32(7).ToString();
                               int enConge = dr.GetInt32(9);
                               string codeGrade = dr.GetString(10);
                               txtGradeCode.Text = codeGrade;
215
                               codeGradeInit = codeGrade;
                               cboGrade.SelectedValue = codeGrade;
                               if(enConge == 1)
                               £
                                   chbConge.Checked = true;
                                   enCongeInit = 1;
                               lblDateEmbauche.Text = dr.GetString(11);
224
                          dr.Close();
```

```
///Affectations
string cadCaserne = $@"SELECT * FROM Affectation WHERE matriculePompier = " + id + " ORDER BY dateA";
SQLiteCommand cd1 = new SQLiteCommand(cmdCaserne, _con);
SQLiteDataReader dr1 = cd1.ExecuteReader();
int idCaserne = 0;
while(dr1.Read())
       string affectation = "";
if(!dr1.IsDBNull(2))
             dateF = true; //il existe une date fin
            DateTime dateNow = DateTime.Now;
DateTime dateFin = DateTime.ParseExact(dr1.GetString(2), "yyyyy-MM-dd", CultureInfo.InvariantCulture);
            int comp = DateTime.Compare(dateNow, dateFin);
            if(dr1.GetString(2) == null || comp > 0)
                idCaserne = dr1.GetInt32(3);
affectation += dr1.GetString(1);
            dateF = false;
idCaserne = dr1.GetInt32(3);
affectation += dr1.GetString(1);
      }
cboCaserne.SelectedValue = idCaserne;
affectation += " " + cboCaserne.Text;
     rtbAffec.Text += affectation + "\n";
dr1.Close();
idCaserneInit = idCaserne;
///Habilitations string cmdHab = 9"SELECT * FROM Passer WHERE matriculePompier = {id}"; SQLiteCommand cd2 = new SQLiteCommand(cmdHab, _con); SQLiteDataReader dr2 = cd2.ExecuteReader();
while(dr2.Read())
      string rq = $0"SELECT libelle FROM Habilitation WHERE id = {dr2.GetInt32(1)}";
SQLiteCommand cm = new SQLiteCommand(rq, _con);
string nom = (string)cm.ExecuteScalar();
       rtbHab.Text += hab + " " + dr2.GetString(2) + "\n";
```

```
var varimg = SAE_Aparcio_Claudel_Meral.Properties.Resources.ResourceManager.GetObject(codeGradeInit);
if(varimg is Image img)
pic.Image = img;
                                        else
{
                                             pic.Image = SAE_Aparcio_Claudel_Meral.Properties.Resources.Default;
                                        if(login.Connected)
                                              cboCaserne.Enabled = true;
cboGrade.Enabled = true;
chbConge.Enabled = true;
                                  catch(InvalidOperationException)
                                       MessageBox.Show("Erreur : la connexion est fermé !");
                                       MessageBox.Show("Erreur dans la requête SQL !");
                                       MessageBox.Show(err.ToString()):
                                  finally { }
                                 if(!login.Connected)
                                       connexionRequest();
318
319
320
321
322
323
324
                                 grpCaserne.Visible = true;
btnInfo.Visible = false;
btnModif.Visible = true;
                           2 références
private void <u>ChargementCbo(DataTable dt</u>, String col1, String col2, ComboBox c)
{
327
328
329
                                 c.Items.Clear();
                                 c.DataSource = dt;
c.DisplayMember = col1;
c.ValueMember = col2;
                          private void ChargercboGrade() {
                               string cmdGrade = $@"SELECT code, libelle FROM Grade";
SQLiteCommand cd1 = new SQLiteCommand(cmdGrade, _con);
SQLiteDataReader dr1 = cd1.ExecuteReader();
DataTable dt = new DataTable();
dt.Columns.Add("code");
dt.Columns.Add("libelle");
while(dr1.Read());
                                     DataRow ligne = dt.NewRow();
ligne[0] = drl.GetString(0);
ligne[1] = drl.GetString(1);
dt.Rows.Add(ligne);
                               drl.Close();
ChargementCbo(dt, "libelle", "code", cboGrade);
                          1 référence
private void ChargercboCaserne()
{
                              DataRow ligne = dt.NewRow();
ligne[0] = dr1.GetInt32(0);
ligne[1] = dr1.GetString(1);
dt.Rows.Add(ligne);
                                dr1.Close();
ChargementCbo(dt, "nom", "id", cboCaserne);
```

```
private void ChargercboCaserne()
    string cmdCaserne = $@"SELECT * FROM Caserne";
SQLiteCommand cd1 = new SQLiteCommand(cmdCaserne, _con);
    SQLiteDataReader dr1 = cd1.ExecuteReader();
    DataTable dt = new DataTable();
    dt.Columns.Add("id");
dt.Columns.Add("nom");
    while(dr1.Read())
         DataRow ligne = dt.NewRow();
         ligne[0] = dr1.GetInt32(0);
ligne[1] = dr1.GetString(1);
         dt.Rows.Add(ligne);
    dr1.Close();
    ChargementCbo(dt, "nom", "id", cboCaserne);
1 référence
private void InitPompierInfo()
    lblNom.Text = String.Empty;
    lblPrenom.Text = String.Empty;
    lblMatricule.Text = String.Empty;
    lblSexe.Text = String.Empty;
lblDateNaissance.Text = String.Empty;
    lblDateEmbauche.Text = String.Empty;
    rdbPro.Checked = false;
    rdbVolontaire.Checked = false;
    lblBip.Text = String.Empty;
    lblTel.Text = String.Empty;
    txtGradeCode.Text = String.Empty;
    cboCaserne.SelectedIndex = -1;
    cboGrade.SelectedIndex = -1;
    rtbAffec.Text = String.Empty;
    rtbHab.Text = String.Empty;
    chbConge.Checked = false;
    grpCaserne.Visible = false;
    btnModif.Visible = false;
    btnModif.Text = "Modifier";
```

```
private void cboGrade_SelectedIndexChanged(object sender, EventArgs e)
                     if(cboGrade.SelectedIndex != -1)
403
404
                         txtGradeCode.Text = cboGrade.SelectedValue.ToString();
405
                 private bool _pendingCreatePompier = false;
413
                 1 référence
                 private void btnCreate_Click(object sender, EventArgs e)
                     if(!login.Connected)
417
                         _pendingCreatePompier = true;
                         connexionRequest();
                         return:
                     OpenCreatePompier();
                 private void OpenCreatePompier()
                     frmCreationPompier creerPompier = new frmCreationPompier(_con);
427
                     DialogResult res = creerPompier.ShowDialog();
                     if(res == DialogResult.OK)
                         MessageBox.Show("Vous avez créé un nouveau pompier");
                         refreshPompier();
```

```
SQLISTERNALISM (Explanation transaction = multi-transaction = multi-transaction = contemporary (in the comporary of the contemporary of the contem
```

```
3 références
private void connexionRequest()
541
                      if(login == null)
                          login = new UCLogin(_con);
545
                      login.OnLoginResult = HandleLoginResult;
546
                      login.OnLoginCancelled = HandleLoginCancelled;
                      Parent.Controls.Add(login);
549
                      login.BringToFront();
login.Left = (this.Width - login.Width) / 2;
                      login.Top = (this.Height - login.Height) / 2;
                      login.Visible = true;
                      this.Enabled = false;
                  private void HandleLoginCancelled()
                      this.Enabled = true;
                      login.Visible = false;
                  2 références
                  private void HandleLoginResult(bool success)
                  {
                      this.Enabled = true;
                      login.Visible = false;
566
                      if(success)
                          btnModif.Text = "Annuler";
                          cboCaserne.Enabled = true;
                          cboGrade.Enabled = true;
                          chbConge.Enabled = true;
574
                           if(_pendingCreatePompier)
                           {
                               _pendingCreatePompier = false;
                               OpenCreatePompier();
584
```

- Le code complet du User Control que vous jugez le plus intéressant.:
- Tableau de Bord:

```
| Indiana | Indi
```

Un extrait du code permettant de générer le pdf

0

 Le code permettant la navigation en mode liaison de données entre les véhicules d'une caserne.

```
public EnginsDisplay(BindingSource baseEngin)
{
    InitializeComponent();
    EnginsList = baseEngin;
    lblCodeEngin.DataBindings.Add("Text", EnginsList, "numero");
    lblDate.DataBindings.Add("Text", EnginsList, "dateReception");
    chkEnPanne.DataBindings.Add("Checked", EnginsList, "enPanne");
    chkEnMission.DataBindings.Add("Checked", EnginsList, "enMission");
}
```

```
private void refreshImage()
{
    Visible = false;
    timer.Start();
    DataRowView currentEngin = (DataRowView)EnginsList.Current;
    string codeType = currentEngin["codeTypeEngin"].ToString();
    var varimg = Properties.Resources.ResourceManager.GetObject(codeType);
    if(varimg is Image img)
    {
        pctEnginImage.Image = img;
    }
    else
    {
        pctEnginImage.Image = Properties.Resources.Default;
    }
}
```

```
private void UCGestionEngin_Load(object sender, EventArgs e)
    if(monDs == null)
        return;
   if (!monDs.Relations.Contains("RelationsCaserneEngins"))
       monDs.Relations.Add("RelationsCaserneEngins",
           monDs.Tables["Caserne"].Columns["id"],
           monDs.Tables["Engin"].Columns["idCaserne"]);
   BindingSource baseCaserne = new BindingSource(monDs,"Caserne");
   cbxChoixCaserne.DataSource = baseCaserne;
   cbxChoixCaserne.DisplayMember = "nom";
   cbxChoixCaserne.ValueMember = "id";
   BindingSource baseEngin = new BindingSource(baseCaserne, "RelationsCaserneEngins");
   display = new EnginsDisplay(baseEngin);
   display.Dock = DockStyle.Fill;
   cbxChoixCaserne.Focus();
   setNext(false);
   setPrevious(false);
```