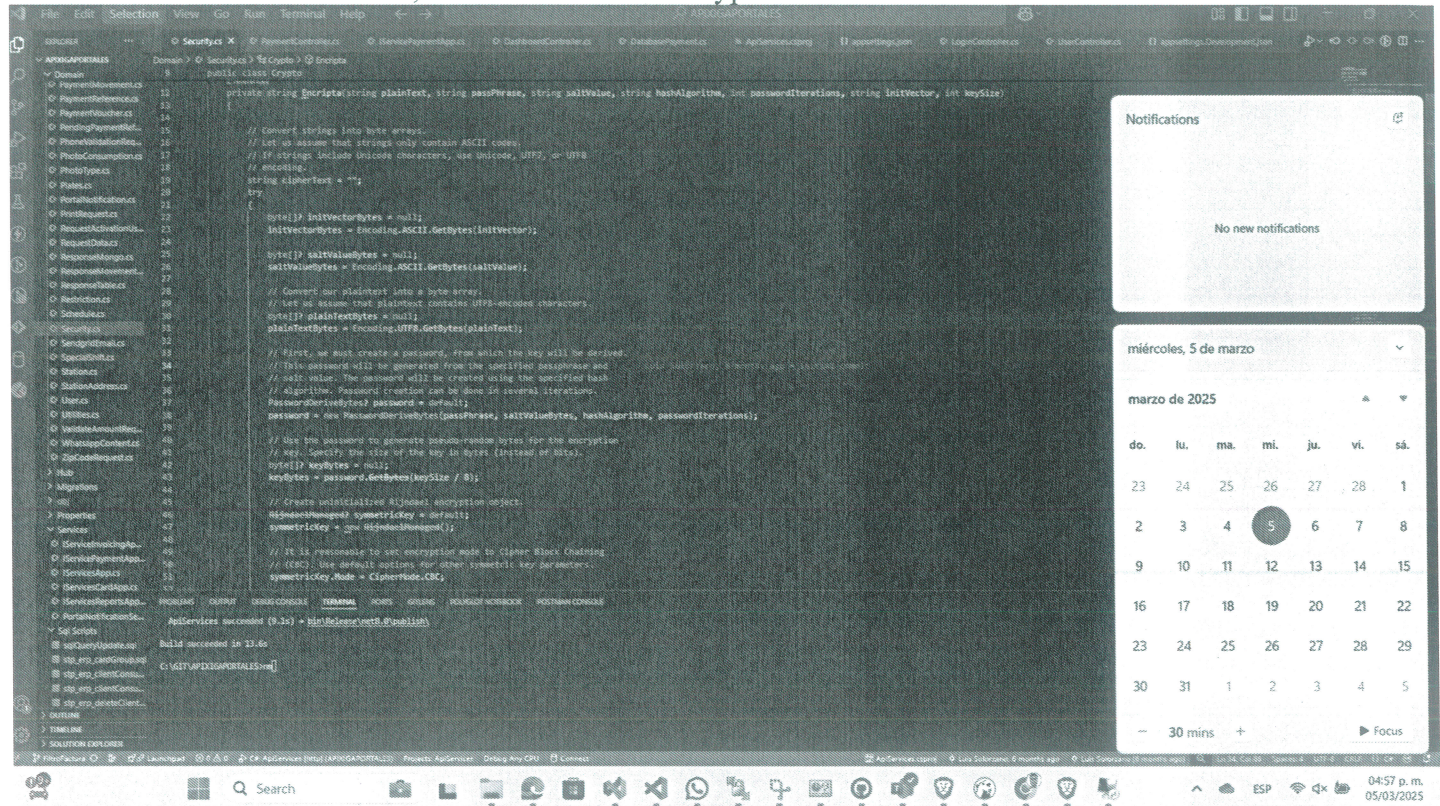


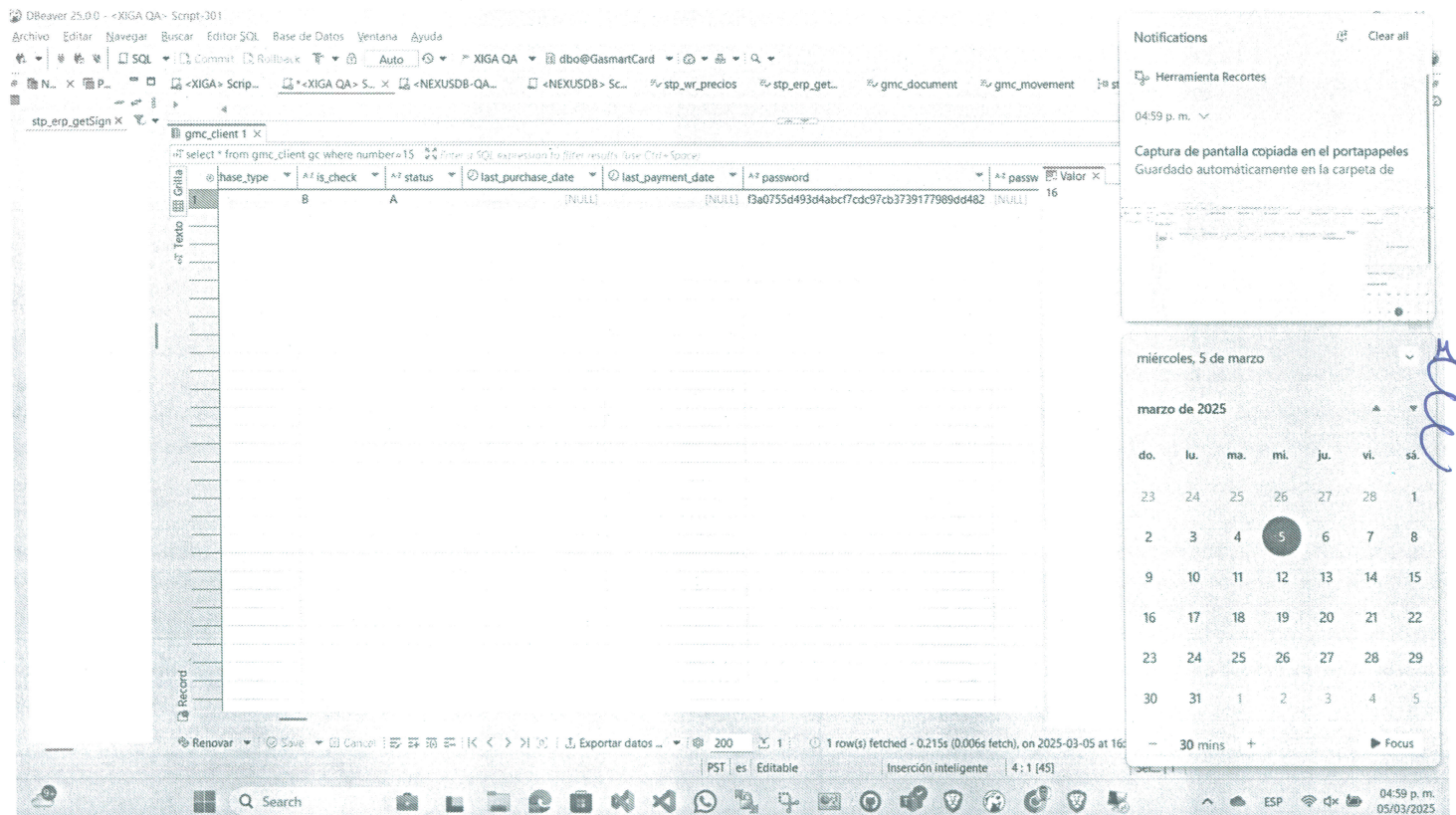
Req. 53 Evidencia de Seguridad en Desarrollo

Portal

Caso 1. Al guardar el password del usuario administrador y/ usuarios secundarios, se encripta antes de almacenarse en la base de datos, mediante la librería Crypto de C#



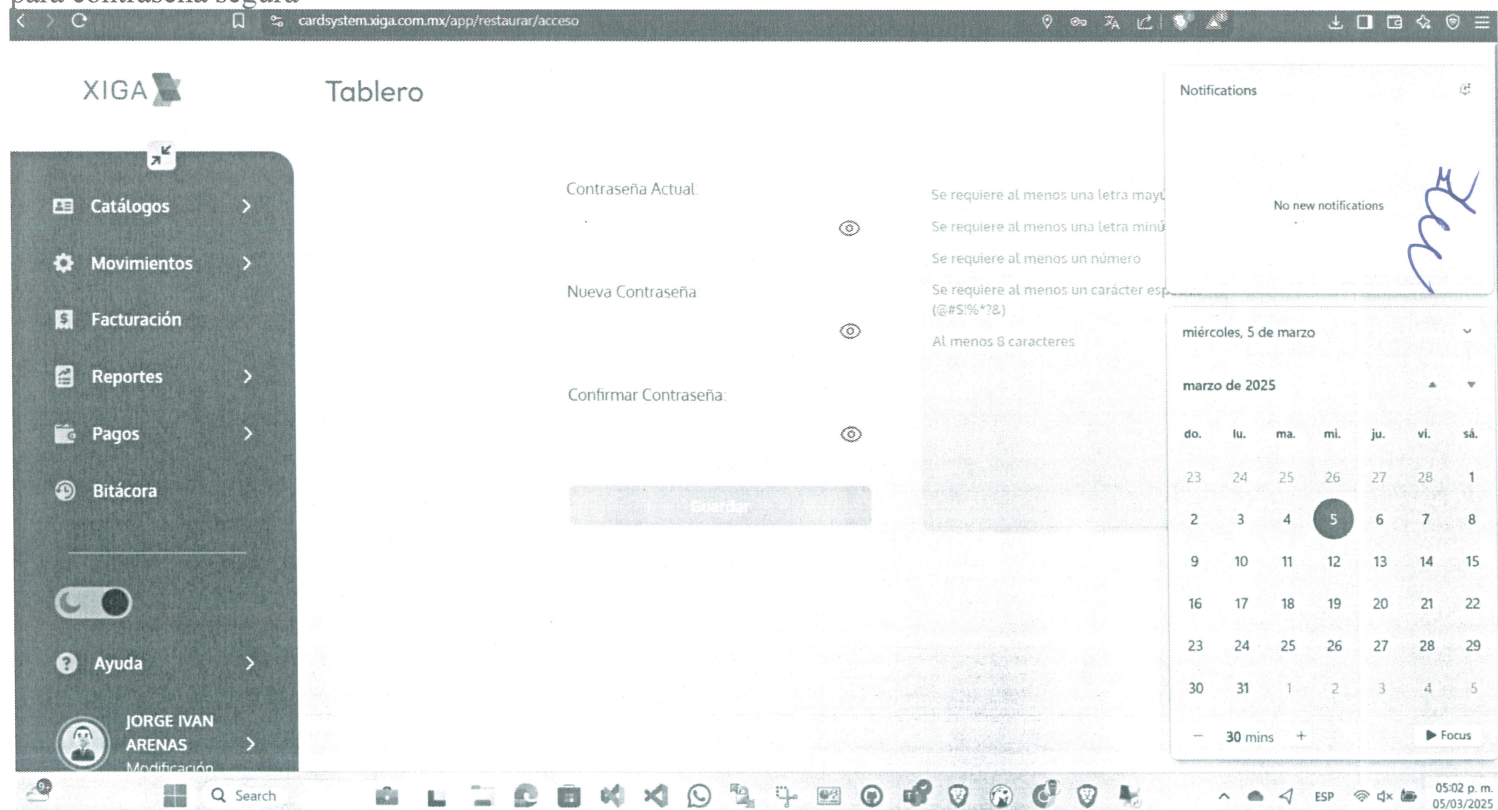
La contraseña encriptada en base de datos



Caso 2. En el código muestra líneas donde valida vigencia de contraseña



Caso 3. Cuando va a cambiar contraseña, pide que cumpla con las especificaciones de seguridad mandatorias para contraseña segura



Caso 1. Al guardar el password del usuario, se encripta antes de almacenarse en la base de datos, mediante la librería CryptoService de C#

```

100 case "save":
101     string person_id = Session["person_id"].ToString();
102     string org_id = Session["org_id"].ToString();
103     string flagOldPWD = Session["flagOldPWD"].ToString();
104
105     CryptoService cryptoService = new CryptoService();
106     SqlDataReader mySqlReader;
107     bool flag = false;
108     bool flagOld = false;
109
110     string[] items = { "usr_old", "usr_pw", "usr_pw_confirm", "passPasswordChange" };
111     string short_item_value = GetSqlParameter("usr_old").ToString().Trim();
112
113     if (flagOld == "true")
114     {
115         short_item_value = EncryptionPassword.EncryptString(short_item_value);
116     }
117     else
118     {
119         short_item_value = cryptoService.Encrypt(short_item_value);
120     }
121     mySqlParameter = m_dtdoQuery("validateOldPwd", @item_nm="usr_pw", @person_id=" " + person_id + " ", @usr_pw_old=" " + short_item_value + " ");
122     if (mySqlParameter.Read())
123     {
124         flagOld = true;
125     }
126     mySqlParameter.Close();
127
128     if (flagOld)
129     {
130         for (int i = 0; i < items.Length; i++)
131         {
132             string short_item_value = GetSqlParameter(items[i]).ToString();
133
134             if (!(((items[i] == "usr_pw" || items[i] == "usr_pw_confirm") && (short_item_value == "")))
135             {
136                 if (items[i] == "usr_pw" || items[i] == "usr_pw_confirm" || items[i] == "usr_old")
137                 {
138                     short_item_value = EncryptionPassword.EncryptString(short_item_value);
139                 }
140                 m_dtdoQuery("setup_person 'update_item', @person_id=" + person_id + " ", @item_nm="
141             }
142         }
143
144         using (Data.DataServer ds = new Data.DataServer())
145         {
146             // Invalidar código de recuperación //
147             ds.AddParameter("method", "invalidate_code");
148             ds.AddParameter("person_id", Session["person_id"]);
149             ds.ExecuteNonQuery("setup_recover_password");
150
151             // MANDAR A BITÁCORA //
152             ds.AddParameter("method", "saveItem");
153             ds.AddParameter("person_id", person_id);
154             ds.AddParameter("date", DateTime.Now);
155         }
156     }
157 }
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```

La contraseña encriptada en base de datos

person_id	item_id	item_value
1	2	Can Pico Suarez No 92
2	3	TUJANA
3	4	
4	5	2
5	6	Victor
6	10	Victor
7	11	Guayma
8	12	vgaray@telefonos.com
9	13	vgaray
10	14	EC340A7F7273767D42AE32DE4C491E2B34316A8A339F7A6A7D
11	15	EC340A7F7273767D42AE32DE4C491E2B34316A8A339F7A6A7D
12	16	1
13	17	Yes
14	18	Yes
15	20	672
16	21	0
17	22	68438501
18	23	
19	24	2344
20	25	EMPRESA
21	26	
22	27	
23	28	
24	29	0
25	72	No
26	98	
27	105	
28	118	320
29	120	na
30	121	0819A1F3A4E1C1D1C9C20B3087E0CE1860FC7B42008
31	122	02-18-25 16:03:52
32	124	1
33	125	01-04-2025
34	126	
35	127	0
36	129	0
37	2	2
38	3	
39	4	
40	5	

Caso 2. En el Código muestra líneas donde valida vigencia de contraseña

The screenshot displays a Visual Studio IDE with a C# code file named `LogOn.aspx.cs`. The code is part of an ASP.NET Web application, `AspNetXenex.NexusFuel.Web`, and is associated with the `LoginProcess(object sender, EventArgs e)` method. The code implements password change logic, including validation of password strength and expiration.

```
// Calcular si debe cambiar contraseña.
if (lastPasswordChange != null)
{
    // Máximo de días para cambiar contraseña.
    ds.AddParameter("item", "vigencia-contraseña-user-10");
    ds.AddParameter("method", "showItem");
    DataTable dtConfig = ds.FillTable("asp_net_configuration");
    int maxDays = int.Parse(dtConfig.Rows[0]["value"].ToString());

    DateTime lastDate = DateTime.Parse(lastPasswordChange);
    TimeSpan t = DateTime.Now.Date - lastDate.Date;
    Session["changePassword"] = t.Days > maxDays ? "true" : "false";
    Session["flagsha256"] = flagsha256.ToString();
}
else
{
    // Primera vez que entra al sistema.
    Session["changePassword"] = "true";
    Session["flagsha256"] = flagsha256.ToString();
}

if (loginByCode)
{
    Session["changePassword"] = "true";
    Session["flagsha256"] = flagsha256.ToString();
}

if (Session["changePassword"].ToString() != "true")
    SaveAttempt("or", personaId);

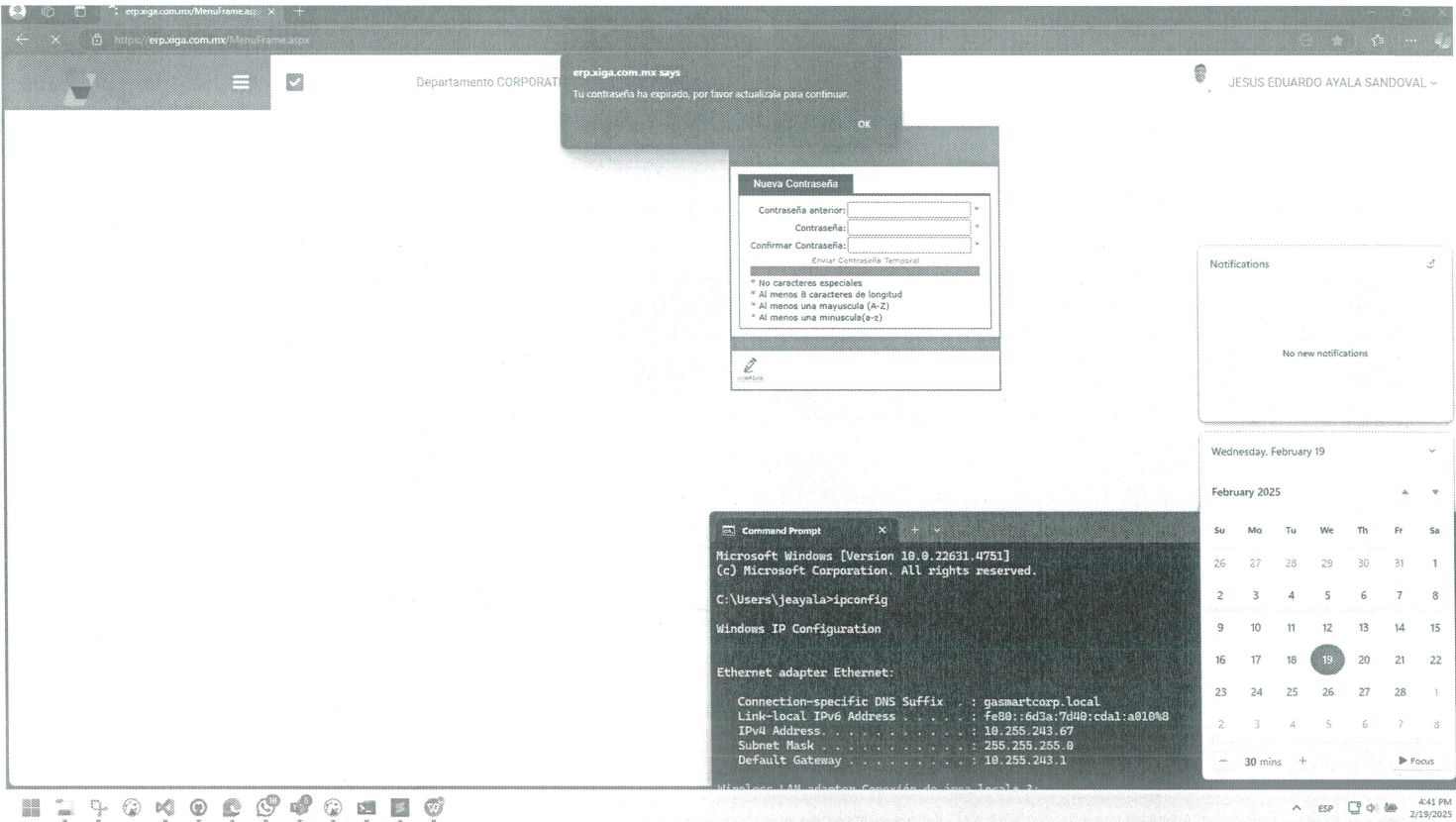
if (flagsha256)
{
    Session["changePassword"] = "true";
    Session["flagsha256"] = flagsha256.ToString();
}

else if (user_name != userPass)
{
    if (countAttempt < 5)
    {
        ErrorMessage.Value = Translate("Invalid Password");
        SaveAttempt(Convert.ToString(countAttempt + 1), personaId);
    }
    else
    {
        ErrorMessage.Value = Translate("User locked out for several failed attempts, select forgot password");
    }
}
else if (countAttempt >= 5)
{
    ErrorMessage.Value = Translate("User locked out for several failed attempts, select forgot password");
}
```

The Windows taskbar at the bottom shows the system clock as 4:20 PM on 2/19/2025. A calendar widget displays the month of February 2025, with the 19th highlighted. A command prompt window is open, showing the Windows version (10.0.22631.4751) and the current directory (C:\Users\jeayala>ipconfig). The IP configuration details for the Ethernet adapter Ethernet are as follows:

Ethernet adapter Ethernet:	
Connection-specific DNS Suffix	: gasmartcorp.local
Link-local IPv6 Address	: fe80::6d3a:7d48:cdal:a010%8
IPv4 Address	: 10.255.243.67
Subnet Mask	: 255.255.255.0
Default Gateway	: 10.255.243.1

Caso 3. Cuando va a cambiar contraseña, pide que cumpla con las especificaciones de seguridad mandatorias para password seguro



Handwritten signature in blue ink.