

My_Project PROJECT TECHNICAL DOCUMENTATION

19/05/2024

Part 1

Project

Project

General information

My_Project	
Directory	D:\My UNEX Projects\My_Project
First window	WIN_Login
Associated analysis	D:\My UNEX Projects\My_Project\My_Project.ana\My_Project.wda
Associated UML model	D:\My UNEX Projects\My_Project\Template.uml
Skin template	250 Phoenix

Project

List of project elements

	Name	Caption
	WIN_Cadastro_de_Usuarios	
	WIN_Chat	
	WIN_Contador	
	WIN_Equacao2Grau	
	WIN_FormGefin	
	WIN_FormGefin05	
	WIN_FormUsuarios	
	WIN_Home	
	WIN_Home_Table	
	WIN_Login	
	WIN_Menu	
	WIN_ProjetoSemestrePassado	
	WIN_SomaNumeros	
	WIN_TableGefin	
	WIN_TableUsuarios	
	WIN_Vendedor	
	WIN_Welcome	
	Carro	
	CarroLuxo	

	Name	Caption
	Cls_Mensagens	
	Cls_Movimentos	
	Cls_Usuarios	
	Movimentos_05	

Statistics	
Number of windows:	17
Number of classes:	6

Project

List of Custom-Folders

Custom-Folder	Name
Aula03	WIN_Contador
	WIN_Menu
	WIN_ProjetoSemestrePassado
	WIN_SomaNumeros
	WIN_Vendedor
	WIN_Welcome
Aula04	WIN_Equacao2Grau
Aula05	WIN_FormGefin05
Aula05Class	Carro
	CarroLuxo
	Movimentos_05
Aula06	WIN_FormGefin
	WIN_TableGefin
Aula06Class	Cls_Movimentos
Aula09	WIN_FormUsuarios
	WIN_TableUsuarios
Aula09Class	Cls_Usuarios
Aula11	WIN_Cadastro_de_Usuarios
	WIN_Chat
	WIN_Home

Custom-Folder		Name
		WIN_Home_Table
		WIN_Login
Aula11Class		Cls_Mensagens

Project

Code

Initialization of My_Project

```
CONSTANT
    //CNS_Link_WebService = "https://177.99.170.11:443"
    //CNS_Link_WebService = "https://localhost:8026"
END

gsLink_WebService is string = "https://177.99.170.11:443"
//gsLink_WebService is string = "https://localhost:8026"

gpcUsuarioLogado is Cls_Usuarios

//b1 is boolean = true
//num1 is int = 20 // inteiro de 4 bytes
//valor1 is real = 50.5
//texto1 is a string = "Linguagem W"
//Hoje1 is a Date = Today()// dia de hoje
//Hora1 is Time = Now()// horário atual
//
//IF texto1 = "01000" AND texto1 = "SP" THEN
//    num1++
//END
//
//IF texto1 = "01000" OR texto1 = "90000" THEN
//    valor1 = valor1 * 3
//END
//
//valor1 = 5 + 7           // valor = 12
//valor1 = valor1 - 6 // valor = 6
//valor1 = 5 * 2           // valor = 10
//valor1 = valor1 / 2 // valor = 5
//valor1 ++               // valor = 6
//valor1 --               // valor = 5
//valor1 += 12            // valor = 17
//valor1 -= 11            // valor = 6
//
//IF valor1 > 60 THEN
//    num1 += 1
//ELSE
//    num1 += 1
//END
//
//SWITCH Valor1
//    CASE 1 : Info(1)           // sintaxe 1
//    CASE 2 : Info("2a") ; Info("2b") // sintaxe 2
//    CASE 3 :                   // sintaxe 3
//        Info("3a")
```

```
//      Info("3b")
//  CASE 4 :           // sintaxe 4
//      Info("4a")
//      Info("4b")
//  OTHER CASE:
//      //não faz nada
//END
//
//contador is int = 1
//WHILE contador <= 10
//  info(contador)
//  contador++
//END
//
//FOR i = 1 TO 10
//  Info(i)
//END

//meuCarro is Carro = new Carro()
//
//meuCarro.cor = "Branco"
//meuCarro.marca = "Wolkswagen"
//meuCarro.modelo = "T-Cross"
//
//meuCarro.Ligar()
//meuCarro.Acelerar()
//meuCarro.Desligar()

//HReqSolicitar is httpRequest
//HReqSolicitar..URL           = "http://localhost/usuarios/lista"
//HReqSolicitar..Method        = httpGet
//HReqSolicitar..ContentType    = "application/json"
//HReqSolicitar..IgnoreError    = httpIgnoreInvalidCertificate
//
//HResRetorno is httpResponse = RESTSend(HReqSolicitar)
//jRetorno is json = HResRetorno..Content
//
//trace(jRetorno)
```

Part 2

Analysis

Analysis

Chart

TB_Movimentos	
Id	mov_ID
A/Z	mov_descricao
31	mov_cadastro
31	mov_vencimento
10/9	mov_valor
	mov_quitado
0/9	mov_tipo_lan

TBL_Usuarios	
Id	TBL_UsuariosID
A/Z	UsuNome
A/Z	UsuSenha
A/Z	UsuEmail
A/Z	UsuCelular

TBL_Mensagens	
Id	TBL_MensagensID
0/9	MsgUsuOrigem
0/9	MsgUsuDestino
31	MsgDataEnvio
	MsgHoraEnvio
A/Z	MsgConteudo
	MsgLida

Analysis

General information

My_Project.wda	
Directory	D:\My UNEX Projects\My_Project\My_Project.ana\
Data file directory	Application directory

Generation #	Nb files	Nb items	Nb links	Nb connections	Nb groups
7	3	20	0	1	0

Analysis

Item dictionary

Item	Type	Size	Unique Key	Key with Duplicates	Used by...
mov_cadastro	Date (yyyymmdd)				TB_Movimentos
Mov_descricao	String	100			TB_Movimentos
Mov_ID	Automatic identifier (8)		✓		TB_Movimentos
mov_quitado	Boolean				TB_Movimentos
mov_tipo_lan	1-byte integer				TB_Movimentos
mov_valor	Currency				TB_Movimentos
mov_vencimento	Date (yyyymmdd)				TB_Movimentos
MovimentosID					<Unused>
MsgConteudo	String	144			TBL_Mensagens
MsgDataEnvio	Date (yyyymmdd)				TBL_Mensagens
MsgHoraEnvio	Time (hhmm)				TBL_Mensagens
MsgLida	Boolean				TBL_Mensagens
MsgUsuDestino	Unsigned 8-byte integer				TBL_Mensagens
MsgUsuOrigem	Unsigned 8-byte integer				TBL_Mensagens
TBL_MensagensID	Automatic identifier (8)		✓		TBL_Mensagens
TBL_UsuariosID	Automatic identifier (8)		✓		TBL_Usuarios
UsuCelular	String	50			TBL_Usuarios
UsuEmail	String	50			TBL_Usuarios
UsuNome	String	50			TBL_Usuarios
UsuSenha	String	50			TBL_Usuarios

Analysis

Connections

Connection	Data source	User	Provider	Conn Timeout* 1	Exec. Timeout* 1
MyConnection1	MyAnalysis		WinDevSQLite	30	30
MyConnection1					

1 Conn Timeout* : Connection timeout

Exec. Timeout* : Execution timeout

Analysis

Files and items

	Abbreviation	Automatic ID	Generation #	Record size	exceeding 2GB	Spaces * 1	Replication	Write Log * 1	Read/Write Log * 1	Security * 1	Data encrypt.	Index encrypt.	Memo encrypt.	Memo compression	Type
TBL_Mensagens		✓	2	193	✓					✓	✓	✓	✓		HFSQL Classic
TBL_Usuarios		✓	2	221	✓					✓	✓	✓	✓		HFSQL Classic

1 Spaces * : Complete strings with spaces

Write Log * : Logging write operations

Read/Write Log * : Log read and write operations

Security * : High security mode

TBL_Mensagens

Files and items

General information

TBL_Mensagens	TBL_Mensagens
Name on disk	TBL_Mensagens.fic

TBL_Mensagens file items

	Caption	Type	Size	Unique Key	Key with Duplicates	Direction	Default value
TBL_MensagensID	ID	Automatic identifier (8 bytes)		✓		↗	
MsgUsuOrigem	MsgUsuOrigem	Unsigned 8-byte integer					0
MsgUsuDestino	MsgUsuDestino	Unsigned 8-byte integer					0
MsgDataEnvio	MsgDataEnvio	Date (yyyymmdd)					
MsgHoraEnvio	MsgHoraEnvio	Time (hhmm)					
MsgConteudo	MsgConteudo	String	144				
MsgLida	MsgLida	Boolean					0

TBL_Usuarios

Files and items

General information

TBL_Usuarios	TBL_Usuarios
Name on disk	TBL_Usuarios.fic

TBL_Usuarios file items

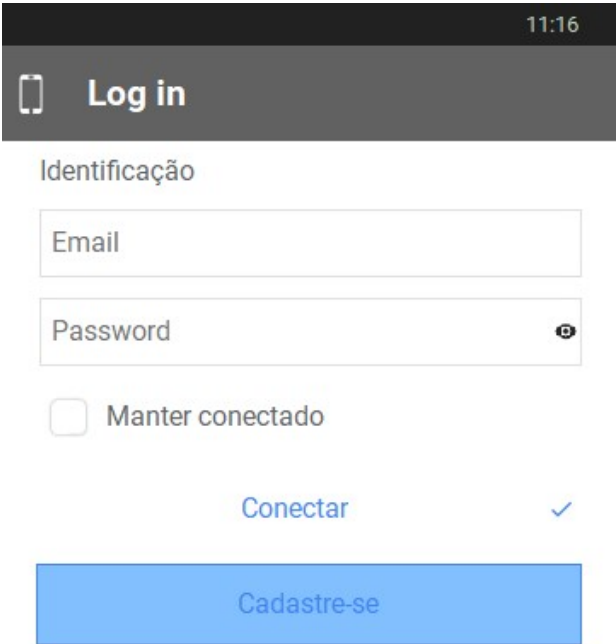
	Caption	Type	Size	Unique Key	Key with Duplicates	Direction	Default value
TBL_UsuariosID	Identifier of TBL_Usuarios	Automatic identifier (8 bytes)		✓		↗	
UsuNome	UsuNome	String	50				
UsuSenha	UsuSenha	String	50				
UsuEmail	UsuEmail	String	50				
UsuCelular	UsuCelular	String	50				

Part 3

WINDEV window

WIN_Login

Image



WIN_Login







General information

WIN_Login	
Physical file	D:\My UNEX Projects\My_Project\WIN_Login.wdw
Created by	AMO
Date created	06/09/2016 04:36:17
Last modified by	PEDRO
Last modified	17/05/2024 16:34:28
Title	BR: Log in

X position	0	Y position	0	Width	360	Height	318
Visible	✓	Title bar	✓	Status Bar			
9-slice scaling		Resizable	✓	Move/Background			
Automatic Scrollbar	✓						
Indep. HFSQL ctx.							

Initial state	Active
Hover cursor	0
Screenshot	Yes
Nb Options main menu	0
Size unit	Desktop OR mobile platform
Window orientation	Locked in portrait mode
Opacity	100
Action Bar	Yes
Sheet mode	No
Transp. system bar	<None>
Offset for sensor	Yes
Border type	Double
Ignore dark theme	No
Pull to refresh	No
Opening mode (Mobile)	Maximized at opening
Popover (iPad)	No
Widget mode	No
Widget refresh	0
Automatic validation.	0
Cap. + Time left	Yes
Virtual keyboard mode	No
Markdown text	No
Context menu mode.	<None>
U.M.C.	No
Animation	Automatic
Width of sliding left window	0
Width of sliding right window	0
Swipe of sliding left window	Yes
Swipe of sliding right window	Yes
Sliding Window effect	Cover: the sliding window covers the current window

Window statistics

	Edit control	2		Caption	1
	Button	2		Check Box	1
	Check Box option	1		Action bar	1

Number of elements in window: 8

WIN_Login

Information on controls

Window : WIN_Login

Edit control

	X position	Y position	Width	Height	Plane	Visible	Initial state	TAB Key	Input type	Multiline	RTF format	Password	Required input	Blank if zero	NULL if empty	File assisted input	Automatic erase	End of automatic input	Horizontal scroll	Vertical scroll	Horz. scrollbar	Vert. scrollbar
EDT_Email	20	38	320	44	0	✓	Active	✓	Text					✓					✓			
EDT_Password	20	90	320	44	0	✓	Active	✓	Text			✓		✓			✓		✓			

Caption

	X position	Y position	Width	Height	Plane	Visible	Initial state	Horz. alignment	Vert. alignment	RTF format	Default animation
STC_Identification	20	8	320	22	0	✓	Active	Left	Top		

Button

	X position	Y position	Width	Height	Plane	Visible	Initial state	TAB Key	Button type
BTN_Cadastro	20	248	320	48	0	✓	Active	✓	Normal
BTN_Connect	20	192	320	48	0	✓	Active	✓	Normal

Check Box

	X position	Y position	Width	Height	Plane	Visible	Initial state	TAB Key	Nb. columns	Proportional column	Three states
CBOX_Checkbox	20	142	320	42	0	✓	Active	✓	1	✓	

Window : WIN_Login

Button : BTN_Cadastro

Caption	BR: Cadastre-se
Tab order	5
Hover cursor	0
UI changes by the user	According to window
On/Off	No
Height Paral. Rate	0
Y Paral. Rate	0
Pinned	No
Hide while scrolling	No
Left indent	0
Opacity	100
Default animation	Yes
Ellipsis mode	<None>
Markdown text	No
Context menu mode.	<None>
Apple button	Disabled
Sign In with Apple button - Style	White
Apple Location button - Icon	Filled arrow icon
Apple Location button - Text	"Current Location"
Nb. image states	1
Nb. background states	5
Stretch background image	Custom 9-slice scaling
Nb. animation steps	1

Anchoring

Anchor rate to right	300	Anchor rate bottom	1000	Horz. anchor rate	400	Vert. anchor rate	1000
-----------------------------	-----	---------------------------	------	--------------------------	-----	--------------------------	------

Button : BTN_Connect

Caption	BR: Conectar
Tab order	4
Hover cursor	0
UI changes by the user	According to window
On/Off	No
Height Paral. Rate	0
Y Paral. Rate	0
Pinned	No
Hide while scrolling	No
Left indent	0
Opacity	100
Default animation	Yes
Ellipsis mode	<None>

Markdown text	No						
Context menu mode.	<None>						
Apple button	Disabled						
Sign In with Apple button - Style	White						
Apple Location button - Icon	Filled arrow icon						
Apple Location button - Text	"Current Location"						
Image	BR: D:\My UNEX Projects\My_Project\Templates\WM\250 Phoenix\Phoenix_Pict_Save_16_5@dpi1x.png						
Nb. image states	1						
Background image	BR: D:\My UNEX Projects\My_Project\Templates\WM\250 Phoenix\Phoenix_Btn_Ok@dpi1x.png						
Nb. background states	5						
Stretch background image	Custom 9-slice scaling						
Nb. animation steps	1						
Anchoring							
Anchor rate to right	300	Anchor rate bottom	1000	Horz. anchor rate	400	Vert. anchor rate	1000

Check Box : CBOX_Checkbox

Caption	BR: &Check box
Initial value	0
Tab order	3
Hover cursor	0
Synchronizing shared information	No
UI changes by the user	According to window
Height Paral. Rate	0
Y Paral. Rate	0
Pinned	No
Hide while scrolling	No
Anchor to content	<None>
Horz. alignment	Left
Vert. alignment	Top
Auto height of options	Yes
Compact option	Yes
Opacity	100
Vista style	No
Bar type	Caption and sub-caption
Required input	No
Required input (error): Style	Yes
Required input (error): Text	No
Required input (error): Icon	No
Persistent value	No
Multiline option	No
Markdown text	No
Context menu mode.	<None>
Native control	No
Image	D:\My UNEX Projects\My_Project\Templates\WM\250 Phoenix\Phoenix_CBox@dpi1x.png
Nb. image states	1

Image width		64					
Nb. animation steps		1					
Anchoring							
Anchor rate to right	300	Anchor rate bottom	1000	Horz. anchor rate	400	Vert. anchor rate	1000

Edit control : EDT_Email

Tab order	1
Hover cursor	0
Synchronizing shared information	No
UI changes by the user	According to window
Calendar button	No
Delete button	<None>
TAB Key	Yes
Height Paral. Rate	0
Y Paral. Rate	0
Pinned	No
Hide while scrolling	No
Anchor to content	<None>
Horz. alignment	Left
Inside X position	22
Inside width	318
Hint text if empty	BR: Email
Opacity	100
Markdown read-only	No
Input size	0
Input mask	BR: 0
Bound in tooltip	No
Bound in the hint text	Yes
Ellipsis mode	<None>
Check spelling	Yes
Horz. scrollbar	Never
Vert. scrollbar	Never
Blocking validation	Yes
Required input (error): Style	Yes
Required input (error): Text	No
Required input (error): Icon	No
Required input (hint): Icon	No
Required input (hint): Text	No
Required input (hint): Style	Yes
Invalid input: Icon	No
Invalid input: Text	No
Invalid input: Style	Yes
With focus	Yes
Input history	No
Activates keyboard	Yes
Keyboard button	<Automatic>
Smartphone mode	No

Multiple values (tokens)	No
Allow duplicates	No
Deletable token	Yes
Persistent value	No
Markdown text	No
Context menu mode.	<None>
Data binding	:ControladorUsuario.UsuEmail
Euro management	No
Anchoring	
Anchor rate to right	300
Anchor rate bottom	1000
Horz. anchor rate	400
Vert. anchor rate	1000

Edit control : EDT_Password

Tab order	2
Hover cursor	0
Synchronizing shared information	No
UI changes by the user	According to window
Calendar button	No
Delete button	<None>
TAB Key	Yes
Height Paral. Rate	0
Y Paral. Rate	0
Pinned	No
Hide while scrolling	No
Anchor to content	<None>
Horz. alignment	Left
Inside X position	22
Inside width	318
Hint text if empty	BR: Password
Opacity	100
Markdown read-only	No
Input size	0
Input mask	BR: 0
Bound in tooltip	No
Bound in the hint text	Yes
Ellipsis mode	<None>
Check spelling	Yes
Horz. scrollbar	Never
Vert. scrollbar	Never
Blocking validation	Yes
Required input (error): Style	Yes
Required input (error): Text	No
Required input (error): Icon	No
Required input (hint): Icon	No
Required input (hint): Text	No
Required input (hint): Style	Yes
Invalid input: Icon	No
Invalid input: Text	No

Invalid input: Style	Yes
With focus	Yes
Input history	No
Activates keyboard	Yes
Keyboard button	<Automatic>
Smartphone mode	No
Multiple values (tokens)	No
Allow duplicates	No
Deletable token	Yes
Persistent value	No
Markdown text	No
Context menu mode.	<None>
Data binding	:ControladorUsuario.UsuSenha
Euro management	No

Anchoring							
Anchor rate to right	300	Anchor rate bottom	1000	Horz. anchor rate	400	Vert. anchor rate	1000

Caption : STC_Identification

Caption	BR: Identificação
Hover cursor	0
Synchronizing shared information	No
UI changes by the user	According to window
Height Paral. Rate	0
Y Paral. Rate	0
Pinned	No
Hide while scrolling	No
Anchor to content	<None>
Opacity	100
Min font size	0
Input type	Text
Input mask	BR: 0
Ellipsis mode	<None>
Transform &	No
Blank if zero	Yes
Markdown text	No

Anchoring							
Anchor rate to right	300	Anchor rate bottom	1000	Horz. anchor rate	400	Vert. anchor rate	1000

WIN_Login

Code

Global declarations of WIN_Login

```
PROCEDURE MyWindow()
```

```
ControladorUsuario is Cls_Usuarios = new Cls_Usuarios()
```

End of initialization of WIN_Login

```
//if InTestMode() = true then
    EDT_Email = "pedro.borges@ftc.edu.br"
    EDT_Password = "primeirocampeaomundial"
// ExecuteProcess(BTN_Connect,trtClick)
//end
```

WIN_Login

Control code

Click BTN_Cadastro

```
OpenMobileWindow(WIN_Cadastro_de_Usuarios,Null,"Inserir")
```

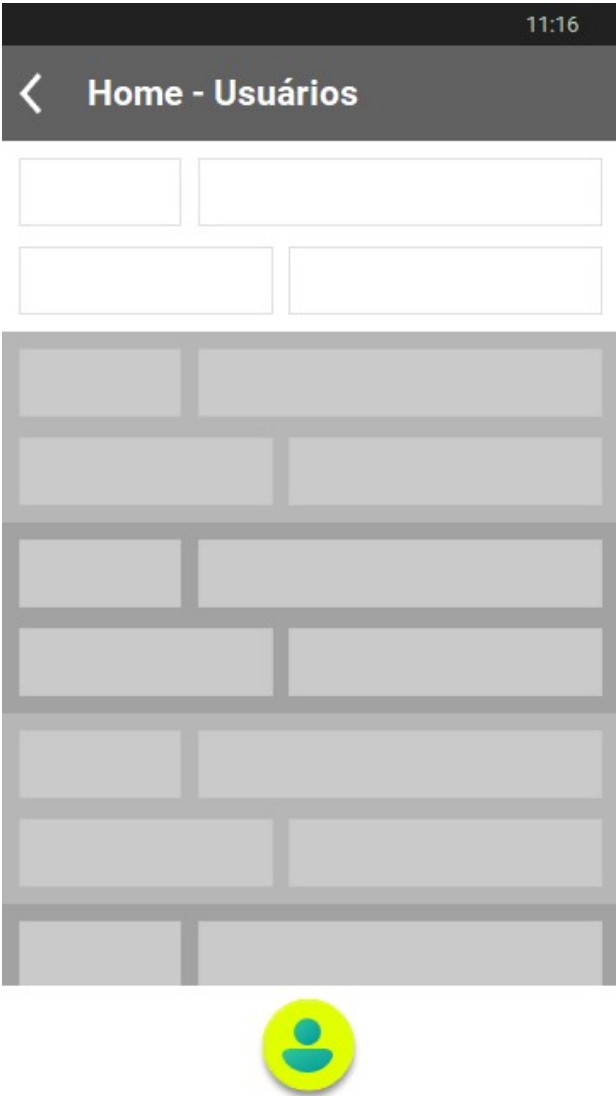
Click BTN_Connect

```
ScreenToFile(WIN_Login)
```

```
IF ControladorUsuario.login() = True THEN
    gpclUsuarioLogado = ControladorUsuario
    OpenMobileWindow(WIN_Home)
END
```

WIN_Home

Image



WIN_Home

General information

WIN_Home	
Physical file	D:\My UNEX Projects\My_Project\WIN_Home.wdw
Created by	PEDRO
Date created	22/03/2024 21:01:56
Last modified by	PEDRO





Last modified	17/05/2024 19:26:52
Title	BR: Home - Usuários

X position	0	Y position	0	Width	360	Height	569
------------	---	------------	---	-------	-----	--------	-----

Visible	✓	Title bar	✓	Status Bar
9-slice scaling		Resizable	✓	Move/Background
Automatic Scrollbar	✓			
Indep. HFSQL ctx.				

Initial state	Active
Hover cursor	0
Screenshot	Yes
Nb Options main menu	0
Size unit	Desktop OR mobile platform
Window orientation	Locked in portrait mode
Opacity	100
Action Bar	Yes
Sheet mode	No
Transp. system bar	<None>
Offset for sensor	No
Border type	Double
Ignore dark theme	No
Pull to refresh	No
Opening mode (Mobile)	Maximized at opening
PopOver (iPad)	No
Widget mode	No
Widget refresh	0
Automatic validation.	0
Cap. + Time left	Yes
Virtual keyboard mode	No
Markdown text	No
Context menu mode.	<None>
U.M.C.	No
Animation	Automatic
Width of sliding left window	0
Width of sliding right window	0
Swipe of sliding left window	Yes
Swipe of sliding right window	Yes
Sliding Window effect	Cover: the sliding window covers the current window

Window statistics

	Edit control	4		Button	1
	Looper	1		Action bar	1

Number of elements in window: 7

WIN_Home

Information on controls

Window : WIN_Home

Button

	X position	Y position	Width	Height	Plane	Visible	Initial state	TAB Key	Button type
BTN_AtualizarDados	153	504	54	54	0	✓	Active	✓	Normal

Looper

	X position	Y position	Width	Height	Plane	Visible	Initial state	TAB Key
LOOP_Usuarios	0	0	360	496	0	✓	Active	✓

Looper : LOOP_Usuarios

Edit control

	X position	Y position	Width	Height	Plane	Visible	Initial state	TAB Key	Input type	Multiline	RTF format	Password	Required input	Blank if zero	NULL if empty	File assisted input	Automatic erase	End of automatic input	Horizontal scroll	Vertical scroll	Horz. scrollbar	Vert. scrollbar
EDT_TBL_UsuariosID	8	8	97	44	0	✓	Read-on	✓	Numeric					✓			✓		✓			
EDT_UsuCelular	8	60	151	44	0	✓	Read-on	✓	Text					✓			✓		✓			
EDT_UsuEmail	167	60	185	44	0	✓	Read-on	✓	Text					✓			✓		✓			
EDT_UsuNome	113	8	239	44	0	✓	Read-on	✓	Text					✓			✓		✓			

Window : WIN_Home

Button : BTN_AtualizarDados

Tab order	2						
Hover cursor	0						
UI changes by the user	According to window						
On/Off	No						
Height Paral. Rate	0						
Y Paral. Rate	0						
Pinned	Yes						
Hide while scrolling	No						
Left indent	0						
Opacity	100						
Default animation	Yes						
Ellipsis mode	<None>						
Markdown text	No						
Context menu mode.	<None>						
Apple button	Disabled						
Sign In with Apple button - Style	White						
Apple Location button - Icon	Filled arrow icon						
Apple Location button - Text	"Current Location"						
Image	BR: D:\My UNEX Projects\My_Project\WON_Basic-User 1@dpi1x.png						
Nb. image states	5						
Nb. background states	1						
Stretch background image	Custom 9-slice scaling						
Nb. animation steps	1						
Anchoring	Right and bottom						
Anchor rate to right	500	Anchor rate bottom	1000	Horz. anchor rate	1000	Vert. anchor rate	1000

Looper : LOOP_Usuarios

Tab order	1
Hover cursor	0
UI changes by the user	According to window
Height Paral. Rate	0
Y Paral. Rate	0
Pinned	No
Hide while scrolling	No
Max. row height	0
Row height	112
Column width	360
Direction	Vertical
Resizable row height	No
Resizable column width	No

Multi-selection	No						
Scrollbar tooltip	Yes						
Per-pixel scrolling	Yes						
Touch scrolling	Yes						
Fast scrolling	No						
Slide	<No action>						
Respects width IW left swipe	No						
Left swipe event on scroll	Yes						
Respects width IW right swipe	No						
Right swipe event on scroll	Yes						
Row movement	<Forbidden>						
Horz. scrollbar	Automatic						
Vert. scrollbar	Automatic						
Selection mode	Single selection						
Pull to refresh	No						
Add additional elements	No						
Max. nb of additional elements	10000						
1 IW per row	No						
Unload IW per row	When the row is not visible anymore						
iOS Selection Compat. 20	No						
Same content/row	No						
Reuse controls	According to platform						
Cascading input	No						
Nb. columns	1						
Hide bar	Yes						
Display/Scrollbar	No						
Collapsible Breaks	Yes						
Markdown text	No						
Context menu mode.	<None>						
Display mode	Standard (grid)						
Column anchoring	Variable column width						
Gallery: Automatic Popup	Yes						
Fill source	Variable						
Max Nb Rec	0						
Browse	Automatic						
Browsed file	:arrUsuarios						
Stored item	:arrUsuarios						
Add/Delete in variable	Yes						
Save on exit	Yes						
Anchoring	Width and height						
Anchor rate to right	1000	Anchor rate bottom	1000	Horz. anchor rate	1000	Vert. anchor rate	1000

Looper : LOOP_Usuarios

Edit control : LOOP_Usuarios.EDT_TBL_UsuariosID

Tab order	1
Hover cursor	0
Synchronizing shared information	No
UI changes by the user	According to window
Calendar button	No
Delete button	<None>
TAB Key	Yes
Height Paral. Rate	0
Y Paral. Rate	0
Pinned	No
Hide while scrolling	No
Anchor to content	<None>
Horz. alignment	Left
Inside X position	10
Inside width	95
Opacity	100
Markdown read-only	No
Input size	0
Input mask	BR: 9999999999
Bound in tooltip	No
Bound in the hint text	Yes
Ellipsis mode	<None>
Check spelling	Yes
Horz. scrollbar	Never
Vert. scrollbar	Never
Blocking validation	No
Required input (error): Style	Yes
Required input (error): Text	No
Required input (error): Icon	No
Required input (hint): Icon	No
Required input (hint): Text	No
Required input (hint): Style	Yes
Invalid input: Icon	No
Invalid input: Text	No
Invalid input: Style	Yes
With focus	Yes
Input history	No
Activates keyboard	Yes
Keyboard button	<Automatic>
Smartphone mode	No
Multiple values (tokens)	No
Allow duplicates	No
Deletable token	Yes
Persistent value	No
Markdown text	No
Context menu mode.	<None>

Data binding		:arrUsuarios.TBL_UsuariosID					
Euro management		No					
Anchoring		Right					
Anchor rate to right	500	Anchor rate bottom	1000	Horz. anchor rate	1000	Vert. anchor rate	1000

Edit control : LOOP_Usuarios.EDT_UsuCelular

Tab order	3
Hover cursor	0
Synchronizing shared information	No
UI changes by the user	According to window
Calendar button	No
Delete button	<None>
TAB Key	Yes
Height Paral. Rate	0
Y Paral. Rate	0
Pinned	No
Hide while scrolling	No
Anchor to content	<None>
Horz. alignment	Left
Inside X position	10
Inside width	149
Opacity	100
Markdown read-only	No
Input size	0
Input mask	BR: 0
Bound in tooltip	No
Bound in the hint text	Yes
Ellipsis mode	<None>
Check spelling	Yes
Horz. scrollbar	Never
Vert. scrollbar	Never
Blocking validation	No
Required input (error): Style	Yes
Required input (error): Text	No
Required input (error): Icon	No
Required input (hint): Icon	No
Required input (hint): Text	No
Required input (hint): Style	Yes
Invalid input: Icon	No
Invalid input: Text	No
Invalid input: Style	Yes
With focus	Yes
Input history	No
Activates keyboard	Yes
Keyboard button	<Automatic>
Smartphone mode	No
Multiple values (tokens)	No

Allow duplicates	No						
Deletable token	Yes						
Persistent value	No						
Markdown text	No						
Context menu mode.	<None>						
Data binding	:arrUsuarios.UsuCelular						
Euro management	No						
Anchoring	Right						
Anchor rate to right	500	Anchor rate bottom	1000	Horz. anchor rate	1000	Vert. anchor rate	1000

Edit control : LOOP_Usuarios.EDT_UsuEmail

Tab order	4
Hover cursor	0
Synchronizing shared information	No
UI changes by the user	According to window
Calendar button	No
Delete button	<None>
TAB Key	Yes
Height Paral. Rate	0
Y Paral. Rate	0
Pinned	No
Hide while scrolling	No
Anchor to content	<None>
Horz. alignment	Left
Inside X position	168
Inside width	184
Opacity	100
Markdown read-only	No
Input size	0
Input mask	BR: 0
Bound in tooltip	No
Bound in the hint text	Yes
Ellipsis mode	<None>
Check spelling	Yes
Horz. scrollbar	Never
Vert. scrollbar	Never
Blocking validation	No
Required input (error): Style	Yes
Required input (error): Text	No
Required input (error): Icon	No
Required input (hint): Icon	No
Required input (hint): Text	No
Required input (hint): Style	Yes
Invalid input: Icon	No
Invalid input: Text	No
Invalid input: Style	Yes
With focus	Yes

Input history	No						
Activates keyboard	Yes						
Keyboard button	<Automatic>						
Smartphone mode	No						
Multiple values (tokens)	No						
Allow duplicates	No						
Deletable token	Yes						
Persistent value	No						
Markdown text	No						
Context menu mode.	<None>						
Data binding	:arrUsuarios.UsuEmail						
Euro management	No						
Anchoring	Right						
Anchor rate to right	500	Anchor rate bottom	1000	Horz. anchor rate	1000	Vert. anchor rate	1000

Edit control : LOOP_Usuarios.EDT_UsuNome

Tab order	2
Hover cursor	0
Synchronizing shared information	No
UI changes by the user	According to window
Calendar button	No
Delete button	<None>
TAB Key	Yes
Height Paral. Rate	0
Y Paral. Rate	0
Pinned	No
Hide while scrolling	No
Anchor to content	<None>
Horz. alignment	Left
Inside X position	115
Inside width	237
Opacity	100
Markdown read-only	No
Input size	0
Input mask	BR: 0
Bound in tooltip	No
Bound in the hint text	Yes
Ellipsis mode	<None>
Check spelling	Yes
Horz. scrollbar	Never
Vert. scrollbar	Never
Blocking validation	No
Required input (error): Style	Yes
Required input (error): Text	No
Required input (error): Icon	No
Required input (hint): Icon	No
Required input (hint): Text	No

Required input (hint): Style	Yes						
Invalid input: Icon	No						
Invalid input: Text	No						
Invalid input: Style	Yes						
With focus	Yes						
Input history	No						
Activates keyboard	Yes						
Keyboard button	<Automatic>						
Smartphone mode	No						
Multiple values (tokens)	No						
Allow duplicates	No						
Deletable token	Yes						
Persistent value	No						
Markdown text	No						
Context menu mode.	<None>						
Data binding	:arrUsuarios.UsuNome						
Euro management	No						
Anchoring	Right						
Anchor rate to right	500	Anchor rate bottom	1000	Horz. anchor rate	1000	Vert. anchor rate	1000

WIN_Home

Code

Global declarations of WIN_Home

```
PROCEDURE MyWindow()  
arrUsuarios is array of Cls_Usuarios
```

End of initialization of WIN_Home

```
arrUsuarios = Cls_Usuarios.home()  
  
LOOP_Usuarios.Display()
```

Focus gain of WIN_Home

```
arrUsuarios = Cls_Usuarios.home()  
  
LOOP_Usuarios.Display()
```

WIN_Home

Control code

Click BTN_AtualizarDados


```
OpenMobileWindow(WIN_Cadastro_de_Usuarios,gpclUsuarioLogado,"Alterar")
```

Select a row in LOOP_Usuarios

```
clUsuario is Cls_Usuarios = LOOP_Usuarios..Value  
OpenMobileWindow(WIN_Chat,clUsuario)
```

Add a token in EDT_TBL_UsuariosID (LOOP_Usuarios)

```
PROCEDURE AddToken(MyToken is Token)  
  
//RETURN False to prevent from adding the token  
RETURN True
```

Delete a token in EDT_TBL_UsuariosID (LOOP_Usuarios)

```
PROCEDURE DeleteToken(MyToken is Token)  
  
//RETURN False to prevent from deleting the token  
RETURN True
```

Click on a token of EDT_TBL_UsuariosID (LOOP_Usuarios)

```
PROCEDURE ClickToken(MyToken is Token)
```

Add a token in EDT_UsuCelular (LOOP_Usuarios)

```
PROCEDURE AddToken(MyToken is Token)  
  
//RETURN False to prevent from adding the token  
RETURN True
```

Delete a token in EDT_UsuCelular (LOOP_Usuarios)

```
PROCEDURE DeleteToken(MyToken is Token)  
  
//RETURN False to prevent from deleting the token  
RETURN True
```

Click on a token of EDT_UsuCelular (LOOP_Usuarios)

```
PROCEDURE ClickToken(MyToken is Token)
```

Add a token in EDT_UsuEmail (LOOP_Usuarios)

```
PROCEDURE AddToken(MyToken is Token)  
  
//RETURN False to prevent from adding the token  
RETURN True
```

Delete a token in EDT_UsuEmail (LOOP_Usuarios)

```
PROCEDURE DeleteToken(MyToken is Token)  
  
//RETURN False to prevent from deleting the token
```

RETURN *True*

Click on a token of EDT_UsuEmail (LOOP_Usuarios)

PROCEDURE ClickToken(MyToken is Token)

Add a token in EDT_UsuNome (LOOP_Usuarios)

PROCEDURE AddToken(MyToken is Token)

//RETURN False to prevent from adding the token

RETURN *True*

Delete a token in EDT_UsuNome (LOOP_Usuarios)

PROCEDURE DeleteToken(MyToken is Token)

//RETURN False to prevent from deleting the token

RETURN *True*

Click on a token of EDT_UsuNome (LOOP_Usuarios)

PROCEDURE ClickToken(MyToken is Token)

WIN_Cadastro_de_Usuarios

Image

11:16

< Cadastro de Usuários

Código

Nome

Senha

E-mail

Celular

Inserir

Alterar

Deletar

WIN_Cadastro_de_Usuarios

General information

WIN_Cadastro_de_Usuarios	
Physical file	D:\My UNEX Projects\My_Project\WIN_Cadastro_de_Usuarios.wdw
Created by	PEDRO
Date created	19/04/2024 20:00:02
Last modified by	PEDRO




Last modified	17/05/2024 19:24:43
Title	BR: Cadastro de Usuários

X position	0	Y position	0	Width	360	Height	569
------------	---	------------	---	-------	-----	--------	-----

Visible	✓	Title bar	✓	Status Bar
9-slice scaling		Resizable	✓	Move/Background
Automatic Scrollbar	✓			
Indep. HFSQL ctx.				

Initial state	Active
Hover cursor	0
Screenshot	Yes
Nb Options main menu	0
Size unit	Desktop OR mobile platform
Window orientation	Locked in portrait mode
Opacity	100
Action Bar	Yes
Sheet mode	No
Transp. system bar	<None>
Offset for sensor	No
Border type	Double
Ignore dark theme	No
Pull to refresh	No
Opening mode (Mobile)	Maximized at opening
PopOver (iPad)	No
Widget mode	No
Widget refresh	0
Automatic validation.	0
Cap. + Time left	Yes
Virtual keyboard mode	No
Markdown text	No
Context menu mode.	<None>
U.M.C.	No
Animation	Automatic
Width of sliding left window	0
Width of sliding right window	0
Swipe of sliding left window	Yes
Swipe of sliding right window	Yes
Sliding Window effect	Cover: the sliding window covers the current window

Window statistics

	Edit control	5		Button	3
	Action bar	1			

Number of elements in window: 9

WIN_Cadastro_de_Usuarios

Information on controls

Window : WIN_Cadastro_de_Usuarios

Edit control

	X position	Y position	Width	Height	Plane	Visible	Initial state	TAB Key	Input type	Multiline	RTF format	Password	Required input	Blank if zero	NULL if empty	File assisted input	Automatic erase	End of automatic input	Horizontal scroll	Vertical scroll	Horz. scrollbar	Vert. scrollbar
EDT_TBL_UsuariosID	53	8	240	63	0	✓	Read-on	✓	Numeric					✓		✓	✓		✓			
EDT_UsuCelular	53	292	240	63	0	✓	Active	✓	Text					✓		✓	✓		✓			
EDT_UsuEmail	53	221	240	63	0	✓	Active	✓	Text					✓		✓	✓		✓			
EDT_UsuNome	53	79	240	63	0	✓	Active	✓	Text					✓		✓	✓		✓			
EDT_UsuSenha	53	150	240	63	0	✓	Active	✓	Text			✓		✓		✓	✓		✓			

Button

	X position	Y position	Width	Height	Plane	Visible	Initial state	TAB Key	Button type
BTN_Alterar	90	411	167	40	0	✓	Active	✓	Normal
BTN_Deletar	90	459	167	40	0	✓	Active	✓	Normal
BTN_Inserir	90	363	167	40	0	✓	Active	✓	Normal

Window : WIN_Cadastro_de_Usuarios

Button : BTN_Alterar

Caption	BR: Alterar						
Tab order	7						
Hover cursor	0						
UI changes by the user	According to window						
On/Off	No						
Height Paral. Rate	0						
Y Paral. Rate	0						
Pinned	No						
Hide while scrolling	No						
Left indent	0						
Opacity	100						
Default animation	Yes						
Ellipsis mode	<None>						
Markdown text	No						
Context menu mode.	<None>						
Apple button	Disabled						
Sign In with Apple button - Style	White						
Apple Location button - Icon	Filled arrow icon						
Apple Location button - Text	"Current Location"						
Image	BR: D:\My UNEX Projects\My_Project\edit@dpi1x.png						
Nb. image states	5						
Background image	BR: D:\My UNEX Projects\My_Project\Templates\WM\250 Phoenix\Phoenix_Btn_Std@dpi1x.png						
Nb. background states	5						
Stretch background image	Custom 9-slice scaling						
Nb. animation steps	1						
Anchoring	Right						
Anchor rate to right	500	Anchor rate bottom	1000	Horz. anchor rate	1000	Vert. anchor rate	1000

Button : BTN_Deletar

Caption	BR: Deletar						
Tab order	8						
Hover cursor	0						
UI changes by the user	According to window						
On/Off	No						
Height Paral. Rate	0						
Y Paral. Rate	0						
Pinned	No						
Hide while scrolling	No						
Left indent	0						
Opacity	100						

Default animation		Yes					
Ellipsis mode		<None>					
Markdown text		No					
Context menu mode.		<None>					
Apple button		Disabled					
Sign In with Apple button - Style		White					
Apple Location button - Icon		Filled arrow icon					
Apple Location button - Text		"Current Location"					
Image		BR: D:\My UNEX Projects\My_Project\WON_Basic-Error@dpi1x.png					
Nb. image states		5					
Background image		BR: D:\My UNEX Projects\My_Project\Templates\WM\250 Phoenix\Phoenix_Btn_Std@dpi1x.png					
Nb. background states		5					
Stretch background image		Custom 9-slice scaling					
Nb. animation steps		1					
Anchoring		Right					
Anchor rate to right	500	Anchor rate bottom	1000	Horz. anchor rate	1000	Vert. anchor rate	1000

Button : BTN_Inserir

Caption	BR: Inserir						
Tab order	6						
Hover cursor	0						
UI changes by the user	According to window						
On/Off	No						
Height Paral. Rate	0						
Y Paral. Rate	0						
Pinned	No						
Hide while scrolling	No						
Left indent	0						
Opacity	100						
Default animation	Yes						
Ellipsis mode	<None>						
Markdown text	No						
Context menu mode.	<None>						
Apple button	Disabled						
Sign In with Apple button - Style	White						
Apple Location button - Icon	Filled arrow icon						
Apple Location button - Text	"Current Location"						
Image	BR: D:\My UNEX Projects\My_Project\WON_Basic-Add@dpi1x.png						
Nb. image states	5						
Background image	BR: D:\My UNEX Projects\My_Project\Templates\WM\250 Phoenix\Phoenix_Btn_Std@dpi1x.png						
Nb. background states	5						
Stretch background image	Custom 9-slice scaling						
Nb. animation steps	1						
Anchoring	Right						
Anchor rate to right	500	Anchor rate bottom	1000	Horz. anchor rate	1000	Vert. anchor rate	1000

Edit control : EDT_TBL_UsuariosID

Caption	BR: Código
Tab order	1
Hover cursor	0
Synchronizing shared information	No
UI changes by the user	According to window
Calendar button	No
Delete button	<None>
TAB Key	Yes
Height Paral. Rate	0
Y Paral. Rate	0
Pinned	No
Hide while scrolling	No
Anchor to content	<None>
Horz. alignment	Right
Inside X position	53
Inside width	240
Opacity	100
Markdown read-only	No
Input size	0
Input mask	BR: +9 999 999 999 999 999
Bound in tooltip	No
Bound in the hint text	Yes
Ellipsis mode	<None>
Check spelling	Yes
Horz. scrollbar	Never
Vert. scrollbar	Never
Blocking validation	No
Required input (error): Style	Yes
Required input (error): Text	No
Required input (error): Icon	No
Required input (hint): Icon	No
Required input (hint): Text	No
Required input (hint): Style	Yes
Invalid input: Icon	No
Invalid input: Text	No
Invalid input: Style	Yes
With focus	Yes
Input history	No
Activates keyboard	Yes
Keyboard button	<Automatic>
Smartphone mode	No
Multiple values (tokens)	No
Allow duplicates	No
Deletable token	Yes
Persistent value	No
Markdown text	No
Context menu mode.	<None>
Data binding	:ControladorUsuario.TBL_UsuariosID

Euro management		No			
Anchoring		Right			
Anchor rate to right	500	Anchor rate bottom	1000	Horz. anchor rate	1000
				Vert. anchor rate	1000

Edit control : EDT_UsuCelular

Caption	BR: Celular
Tab order	5
Hover cursor	0
Synchronizing shared information	No
UI changes by the user	According to window
Calendar button	No
Delete button	<None>
TAB Key	Yes
Height Paral. Rate	0
Y Paral. Rate	0
Pinned	No
Hide while scrolling	No
Anchor to content	<None>
Horz. alignment	Left
Inside X position	53
Inside width	240
Opacity	100
Markdown read-only	No
Input size	50
Input mask	BR: 0
Bound in tooltip	No
Bound in the hint text	Yes
Ellipsis mode	<None>
Check spelling	Yes
Horz. scrollbar	Never
Vert. scrollbar	Never
Blocking validation	No
Required input (error): Style	Yes
Required input (error): Text	No
Required input (error): Icon	No
Required input (hint): Icon	No
Required input (hint): Text	No
Required input (hint): Style	Yes
Invalid input: Icon	No
Invalid input: Text	No
Invalid input: Style	Yes
With focus	Yes
Input history	No
Activates keyboard	Yes
Keyboard button	<Automatic>
Smartphone mode	No
Multiple values (tokens)	No

Allow duplicates	No						
Deletable token	Yes						
Persistent value	No						
Markdown text	No						
Context menu mode.	<None>						
Data binding	:ControladorUsuario.UsuCelular						
Euro management	No						
Anchoring	Right						
Anchor rate to right	500	Anchor rate bottom	1000	Horz. anchor rate	1000	Vert. anchor rate	1000

Edit control : EDT_UsuEmail

Caption	BR: E-mail
Tab order	4
Hover cursor	0
Synchronizing shared information	No
UI changes by the user	According to window
Calendar button	No
Delete button	<None>
TAB Key	Yes
Height Paral. Rate	0
Y Paral. Rate	0
Pinned	No
Hide while scrolling	No
Anchor to content	<None>
Horz. alignment	Left
Inside X position	53
Inside width	240
Opacity	100
Markdown read-only	No
Input size	50
Input mask	BR: 27
Bound in tooltip	No
Bound in the hint text	Yes
Ellipsis mode	<None>
Check spelling	Yes
Horz. scrollbar	Never
Vert. scrollbar	Never
Blocking validation	No
Required input (error): Style	Yes
Required input (error): Text	No
Required input (error): Icon	No
Required input (hint): Icon	No
Required input (hint): Text	No
Required input (hint): Style	Yes
Invalid input: Icon	No
Invalid input: Text	No
Invalid input: Style	Yes

With focus	Yes
Input history	No
Activates keyboard	Yes
Keyboard button	<Automatic>
Smartphone mode	No
Multiple values (tokens)	No
Allow duplicates	No
Deletable token	Yes
Persistent value	No
Markdown text	No
Context menu mode.	<None>
Data binding	:ControladorUsuario.UsuEmail
Euro management	No
Anchoring	Right
Anchor rate to right	500
Anchor rate bottom	1000
Horz. anchor rate	1000
Vert. anchor rate	1000

Edit control : EDT_UsuNome

Caption	BR: Nome
Tab order	2
Hover cursor	0
Synchronizing shared information	No
UI changes by the user	According to window
Calendar button	No
Delete button	<None>
TAB Key	Yes
Height Paral. Rate	0
Y Paral. Rate	0
Pinned	No
Hide while scrolling	No
Anchor to content	<None>
Horz. alignment	Left
Inside X position	53
Inside width	240
Opacity	100
Markdown read-only	No
Input size	50
Input mask	BR: 2
Bound in tooltip	No
Bound in the hint text	Yes
Ellipsis mode	<None>
Check spelling	Yes
Horz. scrollbar	Never
Vert. scrollbar	Never
Blocking validation	No
Required input (error): Style	Yes
Required input (error): Text	No
Required input (error): Icon	No

Required input (hint): Icon	No
Required input (hint): Text	No
Required input (hint): Style	Yes
Invalid input: Icon	No
Invalid input: Text	No
Invalid input: Style	Yes
With focus	Yes
Input history	No
Activates keyboard	Yes
Keyboard button	<Automatic>
Smartphone mode	No
Multiple values (tokens)	No
Allow duplicates	No
Deletable token	Yes
Persistent value	No
Markdown text	No
Context menu mode.	<None>
Data binding	:ControladorUsuario.UsuNome
Euro management	No
Anchoring	Right
Anchor rate to right	500
Anchor rate bottom	1000
Horz. anchor rate	1000
Vert. anchor rate	1000

Edit control : EDT_UsuSenha

Caption	BR: Senha
Tab order	3
Hover cursor	0
Synchronizing shared information	No
UI changes by the user	According to window
Calendar button	No
Delete button	<None>
TAB Key	Yes
Height Paral. Rate	0
Y Paral. Rate	0
Pinned	No
Hide while scrolling	No
Anchor to content	<None>
Horz. alignment	Left
Inside X position	53
Inside width	240
Opacity	100
Markdown read-only	No
Input size	50
Input mask	BR: 0
Bound in tooltip	No
Bound in the hint text	Yes
Ellipsis mode	<None>
Check spelling	Yes

Horz. scrollbar	Never						
Vert. scrollbar	Never						
Blocking validation	No						
Required input (error): Style	Yes						
Required input (error): Text	No						
Required input (error): Icon	No						
Required input (hint): Icon	No						
Required input (hint): Text	No						
Required input (hint): Style	Yes						
Invalid input: Icon	No						
Invalid input: Text	No						
Invalid input: Style	Yes						
With focus	Yes						
Input history	No						
Activates keyboard	Yes						
Keyboard button	<Automatic>						
Smartphone mode	No						
Multiple values (tokens)	No						
Allow duplicates	No						
Deletable token	Yes						
Persistent value	No						
Markdown text	No						
Context menu mode.	<None>						
Data binding	:ControladorUsuario.UsuSenha						
Euro management	No						
Anchoring	Right						
Anchor rate to right	500	Anchor rate bottom	1000	Horz. anchor rate	1000	Vert. anchor rate	1000

WIN_Cadastro_de_Usuarios

Code

Global declarations of WIN_Cadastro_de_Usuarios

```
PROCEDURE MyWindow(LOCAL gpclUsuario is Cls_Usuarios, LOCAL gsAcao is string)
```

```
ControladorUsuario is Cls_Usuarios = new Cls_Usuarios()
```

End of initialization of WIN_Cadastro_de_Usuarios

```
SWITCH gsAcao
CASE "Inserir"
    BTN_Alterar..Visible = False
    BTN_Deletar..Visible = False
    EDT_TBL_UsuariosID..Visible = False
CASE "Alterar"
    ControladorUsuario.ler(gnIdUsuario)
    ControladorUsuario = gpclUsuario
```

```
FileToScreen()  
BTN_Inserir..Visible = False  
BTN_Deletar..Visible = False  
OTHER CASE  
  
END
```

WIN_Cadastro_de_Usuarios

Control code

Initialization of BTN_Alterar

```
// Version 1  
// Description  
// New button to add or create elements
```

Click BTN_Alterar

```
ScreenToFile(WIN_Cadastro_de_Usuarios)  
  
ControladorUsuario.alterar()  
  
FileToScreen(WIN_Cadastro_de_Usuarios)  
  
Close()
```

Initialization of BTN_Deletar

```
// Version 1  
// Description  
// New button to add or create elements
```

Click BTN_Deletar

```
ScreenToFile(WIN_Cadastro_de_Usuarios)  
  
ControladorUsuario.deletar()  
  
FileToScreen(WIN_Cadastro_de_Usuarios)  
  
Close()
```

Click BTN_Inserir

```
ScreenToFile(WIN_Cadastro_de_Usuarios)  
  
ControladorUsuario.inserir()  
  
FileToScreen(WIN_Cadastro_de_Usuarios)  
  
Close()
```

Add a token in EDT_TBL_UsuariosID

```
PROCEDURE AddToken(MyToken is Token)

//RETURN False to prevent from adding the token
RETURN True
```

Delete a token in EDT_TBL_UsuariosID

```
PROCEDURE DeleteToken(MyToken is Token)

//RETURN False to prevent from deleting the token
RETURN True
```

Click on a token of EDT_TBL_UsuariosID

```
PROCEDURE ClickToken(MyToken is Token)
```

Add a token in EDT_UsuCelular

```
PROCEDURE AddToken(MyToken is Token)

//RETURN False to prevent from adding the token
RETURN True
```

Delete a token in EDT_UsuCelular

```
PROCEDURE DeleteToken(MyToken is Token)

//RETURN False to prevent from deleting the token
RETURN True
```

Click on a token of EDT_UsuCelular

```
PROCEDURE ClickToken(MyToken is Token)
```

Add a token in EDT_UsuEmail

```
PROCEDURE AddToken(MyToken is Token)

//RETURN False to prevent from adding the token
RETURN True
```

Delete a token in EDT_UsuEmail

```
PROCEDURE DeleteToken(MyToken is Token)

//RETURN False to prevent from deleting the token
RETURN True
```

Click on a token of EDT_UsuEmail

```
PROCEDURE ClickToken(MyToken is Token)
```

Add a token in EDT_UsuNome

PROCEDURE **AddToken**(MyToken is Token)

//RETURN False to prevent from adding the token
RETURN *True*

Delete a token in EDT_UsuNome

PROCEDURE **DeleteToken**(MyToken is Token)

//RETURN False to prevent from deleting the token
RETURN *True*

Click on a token of EDT_UsuNome

PROCEDURE **ClickToken**(MyToken is Token)

Add a token in EDT_UsuSenha

PROCEDURE **AddToken**(MyToken is Token)

//RETURN False to prevent from adding the token
RETURN *True*

Delete a token in EDT_UsuSenha

PROCEDURE **DeleteToken**(MyToken is Token)

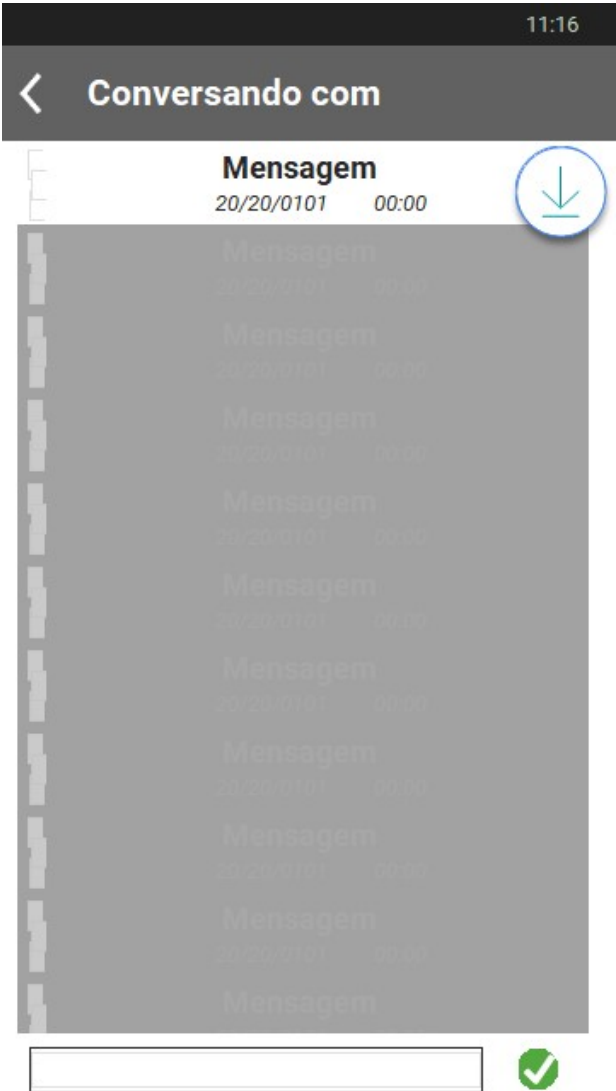
//RETURN False to prevent from deleting the token
RETURN *True*

Click on a token of EDT_UsuSenha

PROCEDURE **ClickToken**(MyToken is Token)

WIN_Chat

Image



WIN_Chat

General information





WIN_Chat	
Physical file	D:\My UNEX Projects\My_Project\WIN_Chat.wdw
Created by	PEDRO
Date created	22/03/2024 21:01:56
Last modified by	PEDRO

Last modified	19/05/2024 08:03:44
Title	BR: Conversando com

X position	0	Y position	0	Width	360	Height	569
Visible	✓	Title bar	✓	Status Bar			
9-slice scaling		Resizable	✓	Move/Background			
Automatic Scrollbar	✓						
Indep. HFSQL ctx.							

Initial state	Active
Hover cursor	0
Screenshot	Yes
Nb Options main menu	0
Size unit	Desktop OR mobile platform
Window orientation	Locked in portrait mode
Opacity	100
Action Bar	Yes
Sheet mode	No
Transp. system bar	<None>
Offset for sensor	No
Border type	Double
Ignore dark theme	No
Pull to refresh	No
Opening mode (Mobile)	Maximized at opening
PopOver (iPad)	No
Widget mode	No
Widget refresh	0
Automatic validation.	0
Cap. + Time left	Yes
Virtual keyboard mode	No
Markdown text	No
Context menu mode.	<None>
U.M.C.	No
Animation	Automatic
Width of sliding left window	0
Width of sliding right window	0
Swipe of sliding left window	Yes
Swipe of sliding right window	Yes
Sliding Window effect	Cover: the sliding window covers the current window

Window statistics

	Edit control	7		Button	2
	Looper	1		Action bar	1

Number of elements in window: 11

WIN_Chat

Information on controls

Window : WIN_Chat

Edit control

	X position	Y position	Width	Height	Plane	Visible	Initial state	TAB Key	Input type	Multiline	RTF format	Password	Required input	Blank if zero	NULL if empty	File assisted input	Automatic erase	End of automatic input	Horizontal scroll	Vertical scroll	Horz. scrollbar	Vert. scrollbar
EDT_EnviarMsg	16	532	266	27	0	✓	Active	✓	Text					✓			✓		✓			

Button

	X position	Y position	Width	Height	Plane	Visible	Initial state	TAB Key	Button type
BTN_EnviarMensagem	286	532	58	27	0	✓	Active	✓	Normal
BTN_Floating	301	3	54	54	0		Active	✓	Normal

Looper

	X position	Y position	Width	Height	Plane	Visible	Initial state	TAB Key
LOOP_Mensagens	9	0	335	524	0	✓	Active	✓

Looper : LOOP_Mensagens

Edit control

	X position	Y position	Width	Height	Plane	Visible	Initial state	TAB Key	Input type	Multiline	RTF format	Password	Required input	Blank if zero	NULL if empty	File assisted input	Automatic erase	End of automatic input	Horizontal scroll	Vertical scroll	Horz. scrollbar	Vert. scrollbar
EDT_MsgConteudo	10	3	310	27	0	✓	Read-on	✓	Text	✓				✓			✓					
EDT_MsgDataEnvio	114	26	94	22	0	✓	Read-on	✓	Date					✓			✓		✓			
EDT_MsgHoraEnvio	205	26	48	22	0	✓	Read-on	✓	Time					✓			✓		✓			
EDT_MsgUsuDestino	6	15	11	22	0		Read-on	✓	Numeric					✓			✓		✓			
EDT_MsgUsuOrigem	5	27	11	22	0		Read-on	✓	Numeric					✓			✓		✓			
EDT_TBL_MensagensI	4	3	11	22	0		Read-on	✓	Numeric					✓			✓		✓			

Window : WIN_Chat

Button : BTN_EnviarMensagem

Tab order	4
Hover cursor	0
UI changes by the user	According to window
On/Off	No
Height Paral. Rate	0
Y Paral. Rate	0
Pinned	Yes
Hide while scrolling	No
Left indent	0
Opacity	100
Default animation	Yes
Ellipsis mode	<None>
Markdown text	No
Context menu mode.	<None>
Apple button	Disabled
Sign In with Apple button - Style	White
Apple Location button - Icon	Filled arrow icon
Apple Location button - Text	"Current Location"
Image	BR: D:\My UNEX Projects\My_Project\send@dpi1x.png
Nb. image states	5
Nb. background states	1
Stretch background image	Custom 9-slice scaling
Nb. animation steps	1
Anchoring	Right and bottom
Anchor rate to right	500
Anchor rate bottom	1000
Horz. anchor rate	1000
Vert. anchor rate	1000

Button : BTN_Floating

Caption	BR: +						
Tab order	2						
Hover cursor	0						
UI changes by the user	According to window						
On/Off	No						
Height Paral. Rate	0						
Y Paral. Rate	0						
Pinned	Yes						
Hide while scrolling	No						
Left indent	0						
Opacity	100						
Default animation	Yes						
Ellipsis mode	<None>						
Markdown text	No						
Context menu mode.	<None>						
Apple button	Disabled						
Sign In with Apple button - Style	White						
Apple Location button - Icon	Filled arrow icon						
Apple Location button - Text	"Current Location"						
Image	BR: D:\My UNEX Projects\My_Project\refresh@dpi1x.png						
Nb. image states	5						
Nb. background states	1						
Stretch background image	Custom 9-slice scaling						
Nb. animation steps	1						
Anchoring	Right						
Anchor rate to right	1000	Anchor rate bottom	1000	Horz. anchor rate	1000	Vert. anchor rate	1000

Edit control : EDT_EnviarMsg

Tab order	3						
Hover cursor	0						
Synchronizing shared information	No						
UI changes by the user	According to window						
Calendar button	No						
Delete button	<None>						
TAB Key	Yes						
Height Paral. Rate	0						
Y Paral. Rate	0						
Pinned	No						
Hide while scrolling	No						
Anchor to content	<None>						
Horz. alignment	Left						
Inside X position	17						
Inside width	264						
Opacity	100						

Markdown read-only	No		
Input size	0		
Input mask	BR: 0		
Bound in tooltip	No		
Bound in the hint text	Yes		
Ellipsis mode	<None>		
Check spelling	Yes		
Horz. scrollbar	Never		
Vert. scrollbar	Never		
Blocking validation	No		
Required input (error): Style	Yes		
Required input (error): Text	No		
Required input (error): Icon	No		
Required input (hint): Icon	No		
Required input (hint): Text	No		
Required input (hint): Style	Yes		
Invalid input: Icon	No		
Invalid input: Text	No		
Invalid input: Style	Yes		
With focus	Yes		
Input history	No		
Activates keyboard	Yes		
Keyboard button	<Automatic>		
Smartphone mode	No		
Multiple values (tokens)	No		
Allow duplicates	No		
Deletable token	Yes		
Persistent value	No		
Markdown text	No		
Context menu mode.	<None>		
Euro management	No		
Anchoring	Right and bottom		
Anchor rate to right500	Anchor rate bottom1000	Horz. anchor rate0	Vert. anchor rate1000

Looper : LOOP_Mensagens

Tab order	1
Hover cursor	0
UI changes by the user	According to window
Height Paral. Rate	0
Y Paral. Rate	0
Pinned	No
Hide while scrolling	No
Max. row height	0
Row height	49
Column width	335
Direction	Vertical
Resizable row height	No

Resizable column width	No						
Multi-selection	No						
Scrollbar tooltip	Yes						
Per-pixel scrolling	Yes						
Touch scrolling	Yes						
Fast scrolling	No						
Slide	<No action>						
Respects width IW left swipe	No						
Left swipe event on scroll	Yes						
Respects width IW right swipe	No						
Right swipe event on scroll	Yes						
Row movement	<Forbidden>						
Horz. scrollbar	Automatic						
Vert. scrollbar	Automatic						
Selection mode	Single selection						
Pull to refresh	No						
Add additional elements	No						
Max. nb of additional elements	10000						
1 IW per row	No						
Unload IW per row	When the row is not visible anymore						
iOS Selection Compat. 20	No						
Same content/row	No						
Reuse controls	According to platform						
Cascading input	No						
Nb. columns	1						
Hide bar	Yes						
Display/Scrollbar	No						
Collapsible Breaks	Yes						
Markdown text	No						
Context menu mode.	<None>						
Display mode	Standard (grid)						
Column anchoring	Variable column width						
Gallery: Automatic Popup	Yes						
Fill source	Variable						
Max Nb Rec	0						
Browse	Automatic						
Browsed file	:arrMensagens						
Add/Delete in variable	Yes						
Save on exit	Yes						
Anchoring	Width and height						
Anchor rate to right	1000	Anchor rate bottom	1000	Horz. anchor rate	1000	Vert. anchor rate	1000

Looper : LOOP_Mensagens

Edit control : LOOP_Mensagens.EDT_MsgConteudo

Note for technical documentation	
BR: Mensagem	
BR: Mensagem	

Initial value	BR: Mensagem
Tab order	2
Hover cursor	0
Synchronizing shared information	No
UI changes by the user	According to window
Calendar button	No
Delete button	<None>
TAB Key	Yes
Height Paral. Rate	0
Y Paral. Rate	0
Pinned	No
Hide while scrolling	No
Anchor to content	<None>
Horz. alignment	Center
Inside X position	19
Inside width	310
Opacity	100
Markdown read-only	No
Input size	0
Input mask	BR: 0
Bound in tooltip	No
Bound in the hint text	Yes
Ellipsis mode	<None>
Check spelling	Yes
Horz. scrollbar	Never
Vert. scrollbar	Never
Blocking validation	No
Required input (error): Style	Yes
Required input (error): Text	No
Required input (error): Icon	No
Required input (hint): Icon	No
Required input (hint): Text	No
Required input (hint): Style	Yes
Invalid input: Icon	No
Invalid input: Text	No
Invalid input: Style	Yes
With focus	Yes
Input history	No
Activates keyboard	Yes
Keyboard button	<Automatic>
Smartphone mode	No
Multiple values (tokens)	No

Allow duplicates	No						
Deletable token	Yes						
Persistent value	No						
Markdown text	No						
Context menu mode.	<None>						
Data binding	:arrMensagens.MsgConteudo						
Euro management	No						
Anchoring	Width and height						
Anchor rate to right	1000	Anchor rate bottom	1000	Horz. anchor rate	1000	Vert. anchor rate	1000

Edit control : LOOP_Mensagens.EDT_MsgDataEnvio

Initial value	BR: 01012020
Tab order	4
Hover cursor	0
Synchronizing shared information	No
UI changes by the user	According to window
Calendar button	No
Delete button	<None>
TAB Key	Yes
Height Paral. Rate	0
Y Paral. Rate	0
Pinned	No
Hide while scrolling	No
Anchor to content	<None>
Horz. alignment	Left
Inside X position	123
Inside width	94
Opacity	100
Markdown read-only	No
Input size	0
Input mask	BR: JJ/MM/AAAA
Return format	AAAAMMJJ
Bound in tooltip	No
Bound in the hint text	Yes
Ellipsis mode	<None>
Check spelling	Yes
Horz. scrollbar	Never
Vert. scrollbar	Never
Blocking validation	No
Required input (error): Style	Yes
Required input (error): Text	No
Required input (error): Icon	No
Required input (hint): Icon	No
Required input (hint): Text	No
Required input (hint): Style	Yes
Invalid input: Icon	No
Invalid input: Text	No

Invalid input: Style	Yes						
With focus	Yes						
Input history	No						
Activates keyboard	Yes						
Keyboard button	<Automatic>						
Smartphone mode	No						
Multiple values (tokens)	No						
Allow duplicates	No						
Deletable token	Yes						
Persistent value	No						
Markdown text	No						
Context menu mode.	<None>						
Data binding	:arrMensagens.MsgDataEnvio						
Euro management	No						
Anchoring	<None>						
Anchor rate to right	1000	Anchor rate bottom	1000	Horz. anchor rate	1000	Vert. anchor rate	1000

Edit control : LOOP_Mensagens.EDT_MsgHoraEnvio

Initial value	BR: 0000
Tab order	5
Hover cursor	0
Synchronizing shared information	No
UI changes by the user	According to window
Calendar button	No
Delete button	<None>
TAB Key	Yes
Height Paral. Rate	0
Y Paral. Rate	0
Pinned	No
Hide while scrolling	No
Anchor to content	<None>
Horz. alignment	Left
Inside X position	216
Inside width	46
Opacity	100
Markdown read-only	No
Input size	0
Input mask	BR: HH:MM
Return format	HHMMSS
Bound in tooltip	No
Bound in the hint text	Yes
Ellipsis mode	<None>
Check spelling	Yes
Horz. scrollbar	Never
Vert. scrollbar	Never
Blocking validation	No
Required input (error): Style	Yes

Required input (error): Text	No						
Required input (error): Icon	No						
Required input (hint): Icon	No						
Required input (hint): Text	No						
Required input (hint): Style	Yes						
Invalid input: Icon	No						
Invalid input: Text	No						
Invalid input: Style	Yes						
With focus	Yes						
Input history	No						
Activates keyboard	Yes						
Keyboard button	<Automatic>						
Smartphone mode	No						
Multiple values (tokens)	No						
Allow duplicates	No						
Deletable token	Yes						
Persistent value	No						
Markdown text	No						
Context menu mode.	<None>						
Data binding	:arrMensagens.MsgHoraEnvio						
Euro management	No						
Anchoring	<None>						
Anchor rate to right	1000	Anchor rate bottom	1000	Horz. anchor rate	1000	Vert. anchor rate	1000

Edit control : LOOP_Mensagens.EDT_MsgUsuDestino

Tab order	3
Hover cursor	0
Synchronizing shared information	No
UI changes by the user	According to window
Calendar button	No
Delete button	<None>
TAB Key	Yes
Height Paral. Rate	0
Y Paral. Rate	0
Pinned	No
Hide while scrolling	No
Anchor to content	<None>
Horz. alignment	Left
Inside X position	17
Inside width	9
Opacity	100
Markdown read-only	No
Input size	0
Input mask	BR: 9999999999
Bound in tooltip	No
Bound in the hint text	Yes
Ellipsis mode	<None>

Check spelling	Yes						
Horz. scrollbar	Never						
Vert. scrollbar	Never						
Blocking validation	No						
Required input (error): Style	Yes						
Required input (error): Text	No						
Required input (error): Icon	No						
Required input (hint): Icon	No						
Required input (hint): Text	No						
Required input (hint): Style	Yes						
Invalid input: Icon	No						
Invalid input: Text	No						
Invalid input: Style	Yes						
With focus	Yes						
Input history	No						
Activates keyboard	Yes						
Keyboard button	<Automatic>						
Smartphone mode	No						
Multiple values (tokens)	No						
Allow duplicates	No						
Deletable token	Yes						
Persistent value	No						
Markdown text	No						
Context menu mode.	<None>						
Data binding	:arrMensagens.MsgUsuDestino						
Euro management	No						
Anchoring	<None>						
Anchor rate to right	1000	Anchor rate bottom	1000	Horz. anchor rate	1000	Vert. anchor rate	1000

Edit control : LOOP_Mensagens.EDT_MsgUsuOrigem

Tab order	6
Hover cursor	0
Synchronizing shared information	No
UI changes by the user	According to window
Calendar button	No
Delete button	<None>
TAB Key	Yes
Height Paral. Rate	0
Y Paral. Rate	0
Pinned	No
Hide while scrolling	No
Anchor to content	<None>
Horz. alignment	Left
Inside X position	16
Inside width	9
Opacity	100
Markdown read-only	No

Input size	0						
Input mask	BR: 9999999999						
Bound in tooltip	No						
Bound in the hint text	Yes						
Ellipsis mode	<None>						
Check spelling	Yes						
Horz. scrollbar	Never						
Vert. scrollbar	Never						
Blocking validation	No						
Required input (error): Style	Yes						
Required input (error): Text	No						
Required input (error): Icon	No						
Required input (hint): Icon	No						
Required input (hint): Text	No						
Required input (hint): Style	Yes						
Invalid input: Icon	No						
Invalid input: Text	No						
Invalid input: Style	Yes						
With focus	Yes						
Input history	No						
Activates keyboard	Yes						
Keyboard button	<Automatic>						
Smartphone mode	No						
Multiple values (tokens)	No						
Allow duplicates	No						
Deletable token	Yes						
Persistent value	No						
Markdown text	No						
Context menu mode.	<None>						
Data binding	:arrMensagens.MsgUsuOrigem						
Euro management	No						
Anchoring	<None>						
Anchor rate to right	1000	Anchor rate bottom	1000	Horz. anchor rate	1000	Vert. anchor rate	1000

Edit control : LOOP_Mensagens.EDT_TBL_MensagensID

Tab order	1
Hover cursor	0
Synchronizing shared information	No
UI changes by the user	According to window
Calendar button	No
Delete button	<None>
TAB Key	Yes
Height Paral. Rate	0
Y Paral. Rate	0
Pinned	No
Hide while scrolling	No
Anchor to content	<None>

Horz. alignment	Left						
Inside X position	15						
Inside width	9						
Opacity	100						
Markdown read-only	No						
Input size	0						
Input mask	BR: 9999999999						
Bound in tooltip	No						
Bound in the hint text	Yes						
Ellipsis mode	<None>						
Check spelling	Yes						
Horz. scrollbar	Never						
Vert. scrollbar	Never						
Blocking validation	No						
Required input (error): Style	Yes						
Required input (error): Text	No						
Required input (error): Icon	No						
Required input (hint): Icon	No						
Required input (hint): Text	No						
Required input (hint): Style	Yes						
Invalid input: Icon	No						
Invalid input: Text	No						
Invalid input: Style	Yes						
With focus	Yes						
Input history	No						
Activates keyboard	Yes						
Keyboard button	<Automatic>						
Smartphone mode	No						
Multiple values (tokens)	No						
Allow duplicates	No						
Deletable token	Yes						
Persistent value	No						
Markdown text	No						
Context menu mode.	<None>						
Data binding	:arrMensagens.TBL_MensagensID						
Euro management	No						
Anchoring	<None>						
Anchor rate to right	1000	Anchor rate bottom	1000	Horz. anchor rate	1000	Vert. anchor rate	1000

WIN_Chat

Code

Global declarations of WIN_Chat

```
PROCEDURE MyWindow(LOCAL gpclUsuarioDestino is Cls_Usuarios)
arrMensagens is array of Cls_Mensagens

WIN_Chat..Title += Upper(ExtractString(gpclUsuarioDestino.UsuNome,1," "))
```

End of initialization of WIN_Chat

```
pCarregarMensagens()
```

WIN_Chat

Control code

Click BTN_EnviarMensagem

```
clMensagem is Cls_Mensagens = Cls_Mensagens.inserir(gpclUsuarioLogado.TBL_UsuariosID,...
                                                    gpclUsuarioDestino.TBL_UsuariosID,...
                                                    EDT_EnviarMsg..Value)

arrMensagens.Add(clMensagem)
LOOP_Mensagens.Display()
EDT_EnviarMsg = ""
```

Initialization of BTN_Floating

```
// Version 1
// Description
// Floating add button. This button is pinned to keep the same position relative to the screen.
```

Click BTN_Floating

```
arrMensagens = Cls_Mensagens.chat(gpclUsuarioLogado.TBL_UsuariosID, gpclUsuarioDestino.TBL_UsuariosID)

LOOP_Mensagens.Display()
```

Add a token in EDT_EnviarMsg

```
PROCEDURE AddToken(MyToken is Token)

//RETURN False to prevent from adding the token
RETURN True
```

Delete a token in EDT_EnviarMsg

```
PROCEDURE DeleteToken(MyToken is Token)

//RETURN False to prevent from deleting the token
RETURN True
```

Click on a token of EDT_EnviarMsg

```
PROCEDURE ClickToken(MyToken is Token)
```

Display a row in LOOP_Mensagens

```

IF LOOP_Mensagens[LOOP_Mensagens].EDT_MsgUsuOrigem = gpclUsuarioLogado.TBL_UsuariosID THEN
    // LOOP_Mensagens[LOOP_Mensagens].BackColor = DarkGreen
    LOOP_Mensagens[LOOP_Mensagens].EDT_MsgConteudo.BackColor = DarkGreen
    LOOP_Mensagens[LOOP_Mensagens].EDT_MsgConteudo.Color = White
    LOOP_Mensagens[LOOP_Mensagens].EDT_MsgConteudo.HorizontalAlignment = haRight

    LOOP_Mensagens[LOOP_Mensagens].EDT_MsgDataEnvio.BackColor = DarkGreen
    LOOP_Mensagens[LOOP_Mensagens].EDT_MsgDataEnvio.Color = White
    LOOP_Mensagens[LOOP_Mensagens].EDT_MsgDataEnvio..X += 118

    LOOP_Mensagens[LOOP_Mensagens].EDT_MsgHoraEnvio.BackColor = DarkGreen
    LOOP_Mensagens[LOOP_Mensagens].EDT_MsgHoraEnvio.Color = White
    LOOP_Mensagens[LOOP_Mensagens].EDT_MsgHoraEnvio..X += 118
ELSE
    // LOOP_Mensagens[LOOP_Mensagens].BackColor = LightGray
    LOOP_Mensagens[LOOP_Mensagens].EDT_MsgConteudo.BackColor = LightGray
    LOOP_Mensagens[LOOP_Mensagens].EDT_MsgConteudo.Color = Black
    LOOP_Mensagens[LOOP_Mensagens].EDT_MsgConteudo.HorizontalAlignment = haLeft

    LOOP_Mensagens[LOOP_Mensagens].EDT_MsgDataEnvio.BackColor = LightGray
    LOOP_Mensagens[LOOP_Mensagens].EDT_MsgDataEnvio.Color = Black
    LOOP_Mensagens[LOOP_Mensagens].EDT_MsgDataEnvio..X -= 104

    LOOP_Mensagens[LOOP_Mensagens].EDT_MsgHoraEnvio.BackColor = LightGray
    LOOP_Mensagens[LOOP_Mensagens].EDT_MsgHoraEnvio.Color = Black
    LOOP_Mensagens[LOOP_Mensagens].EDT_MsgHoraEnvio..X -= 104
END

```

Add a token in EDT_MsgConteudo (LOOP_Mensagens)

```

PROCEDURE AddToken(MyToken is Token)

//RETURN False to prevent from adding the token
RETURN True

```

Delete a token in EDT_MsgConteudo (LOOP_Mensagens)

```

PROCEDURE DeleteToken(MyToken is Token)

//RETURN False to prevent from deleting the token
RETURN True

```

Click on a token of EDT_MsgConteudo (LOOP_Mensagens)

```

PROCEDURE ClickToken(MyToken is Token)

```

Add a token in EDT_MsgDataEnvio (LOOP_Mensagens)

```

PROCEDURE AddToken(MyToken is Token)

//RETURN False to prevent from adding the token
RETURN True

```

Delete a token in EDT_MsgDataEnvio (LOOP_Mensagens)

```

PROCEDURE DeleteToken(MyToken is Token)

//RETURN False to prevent from deleting the token
RETURN True

```

Click on a token of EDT_MsgDataEnvio (LOOP_Mensagens)

```
PROCEDURE ClickToken(MyToken is Token)
```

Add a token in EDT_MsgHoraEnvio (LOOP_Mensagens)

```
PROCEDURE AddToken(MyToken is Token)
```

```
//RETURN False to prevent from adding the token  
RETURN True
```

Delete a token in EDT_MsgHoraEnvio (LOOP_Mensagens)

```
PROCEDURE DeleteToken(MyToken is Token)
```

```
//RETURN False to prevent from deleting the token  
RETURN True
```

Click on a token of EDT_MsgHoraEnvio (LOOP_Mensagens)

```
PROCEDURE ClickToken(MyToken is Token)
```

Add a token in EDT_MsgUsuDestino (LOOP_Mensagens)

```
PROCEDURE AddToken(MyToken is Token)
```

```
//RETURN False to prevent from adding the token  
RETURN True
```

Delete a token in EDT_MsgUsuDestino (LOOP_Mensagens)

```
PROCEDURE DeleteToken(MyToken is Token)
```

```
//RETURN False to prevent from deleting the token  
RETURN True
```

Click on a token of EDT_MsgUsuDestino (LOOP_Mensagens)

```
PROCEDURE ClickToken(MyToken is Token)
```

Add a token in EDT_MsgUsuOrigem (LOOP_Mensagens)

```
PROCEDURE AddToken(MyToken is Token)
```

```
//RETURN False to prevent from adding the token  
RETURN True
```

Delete a token in EDT_MsgUsuOrigem (LOOP_Mensagens)

```
PROCEDURE DeleteToken(MyToken is Token)
```

```
//RETURN False to prevent from deleting the token  
RETURN True
```

Click on a token of EDT_MsgUsuOrigem (LOOP_Mensagens)

```
PROCEDURE ClickToken(MyToken is Token)
```

Add a token in EDT_TBL_MensagensID (LOOP_Mensagens)

```
PROCEDURE AddToken(MyToken is Token)
```

```
//RETURN False to prevent from adding the token  
RETURN True
```

Delete a token in EDT_TBL_MensagensID (LOOP_Mensagens)

```
PROCEDURE DeleteToken(MyToken is Token)
```

```
//RETURN False to prevent from deleting the token  
RETURN True
```

Click on a token of EDT_TBL_MensagensID (LOOP_Mensagens)

```
PROCEDURE ClickToken(MyToken is Token)
```

WIN_Chat

Procedures

Local procedure pCarregarMensagens

```
PROCEDURE pCarregarMensagens()
```

```
arrMensagens = Cls_Mensagens.chat(gpclUsuarioLogado.TBL_UsuariosID, gpclUsuarioDestino.TBL_UsuariosID)
```

```
LOOP_Mensagens.Display()
```

Part 4

Class

Cls_Usuarios

Code

Declaration of Cls_Usuarios

```
Cls_Usuarios is Class
    TBL_UsuariosID is 8-byte int = 0 //Identifier of TBL_Usuarios
    UsuNome is string = "" //UsuNome
    UsuSenha is string = "" //UsuSenha
    UsuEmail is string = "" //UsuEmail
    UsuCelular is string = "" //UsuCelular
END
```

Method alterar

```
PROCEDURE alterar()

jRequisicao is JSON
jRequisicao.UsuNome = :UsuNome
jRequisicao.UsuSenha = :UsuSenha
jRequisicao.UsuEmail = :UsuEmail
jRequisicao.UsuCelular = :UsuCelular

ReqSolicitar is httpRequest
ReqSolicitar..URL = gsLink_WebService + "/usuarios/alterar/" + :TBL_UsuariosID
ReqSolicitar..Method = httpPut
ReqSolicitar..ContentType = "application/json"
ReqSolicitar..IgnoreError = httpIgnoreInvalidCertificate
ReqSolicitar..Content = jRequisicao

ResRetorno is httpResponse = RESTSend(ReqSolicitar)

IF ResRetorno.StatusCode = 200 THEN
    jRetorno is JSON = ResRetorno..Content

    :TBL_UsuariosID = jRetorno.TBL_UsuariosID
    :UsuNome = jRetorno.UsuNome
    :UsuSenha = jRetorno.UsuSenha
    :UsuEmail = jRetorno.UsuEmail
    :UsuCelular = jRetorno.UsuCelular

    ToastDisplay("Usuário alterado com sucesso", toastLong, vaMiddle, haCenter)

    RETURN True
ELSE
    ToastDisplay("Usuário não encontrado", toastLong, vaMiddle, haCenter)

    RETURN False
END
```

Constructor

```
PROCEDURE Constructor( )
```

Method deletar

```
PROCEDURE deletar()
```

```

ReqSolicitar is httpRequest
ReqSolicitar..URL           = gsLink_WebService + "/usuarios/deletar/" + :TBL_UsuariosID
ReqSolicitar..Method        = httpDelete
ReqSolicitar..ContentType   = "application/json"
ReqSolicitar..IgnoreError   = httpIgnoreInvalidCertificate

ResRetorno is httpResponse = RESTSend(ReqSolicitar)

IF ResRetorno.StatusCode = 204 THEN
    ToastDisplay("Usuário deletado com sucesso", toastLong, vaMiddle, haCenter)

    RETURN True
ELSE
    ToastDisplay("Usuário não encontrado", toastLong, vaMiddle, haCenter)

    RETURN False
END

```

Destructor

```
PROCEDURE Destructor()
```

Method home

```

PROCEDURE PUBLIC GLOBAL home()

arrUsuarios is array of Cls_Usuarios
clUsuario is Cls_Usuarios
ReqSolicitar is httpRequest
ReqSolicitar..URL           = gsLink_WebService + "/usuarios/home"
ReqSolicitar..Method        = httpGet
ReqSolicitar..ContentType   = "application/json"
ReqSolicitar..IgnoreError   = httpIgnoreInvalidCertificate

ResRetorno is httpResponse = RESTSend(ReqSolicitar)

IF ResRetorno.StatusCode = 200 THEN
    jRetorno is JSON = ResRetorno..Content
    nQuant is int = jRetorno..Count

    FOR i = 1 TO nQuant
        clUsuario = new Cls_Usuarios()
        clUsuario:TBL_UsuariosID = jRetorno[i].TBL_UsuariosID
        clUsuario:UsuNome        = jRetorno[i].UsuNome
        //clUsuario:UsuSenha      = jRetorno[i].UsuSenha
        clUsuario:UsuEmail       = jRetorno[i].UsuEmail
        clUsuario:UsuCelular     = jRetorno[i].UsuCelular

        ArrayAdd(arrUsuarios, clUsuario)
    END

ELSE
    ToastDisplay("Erro ao buscar os usuários." + ResRetorno.StatusCode, toastLong, vaMiddle, haCenter)
    ArrayAdd(arrUsuarios, gpc1UsuarioLogado)

END

RETURN arrUsuarios

```

Method inserir

```

PROCEDURE inserir()

jRequisicao is JSON
jRequisicao.UsuNome = :UsuNome

```

```

jRequisicao.UsuSenha = :UsuSenha
jRequisicao.UsuEmail = :UsuEmail
jRequisicao.UsuCelular = :UsuCelular

ReqSolicitar is httpRequest
ReqSolicitar..URL = gsLink_WebService + "/usuarios/inserir"
ReqSolicitar..Method = httpPost
ReqSolicitar..ContentType = "application/json"
ReqSolicitar..IgnoreError = httpIgnoreInvalidCertificate
ReqSolicitar..Content = jRequisicao

ResRetorno is httpResponse = RESTSend(ReqSolicitar)

IF ResRetorno.StatusCode = 200 THEN
    jRetorno is JSON = ResRetorno..Content

    :TBL_UsuariosID = jRetorno.TBL_UsuariosID
    :UsuNome = jRetorno.UsuNome
    :UsuSenha = jRetorno.UsuSenha
    :UsuEmail = jRetorno.UsuEmail
    :UsuCelular = jRetorno.UsuCelular

    ToastDisplay("Usuário inserido com sucesso", toastLong, vaMiddle, haCenter)

    RETURN True
ELSE
    ToastDisplay("Erro ao inserir o usuário", toastLong, vaMiddle, haCenter)

    RETURN False
END

```

Method ler

```

PROCEDURE ler(LOCAL nId is int)

ReqSolicitar is httpRequest
ReqSolicitar..URL = gsLink_WebService + "/usuarios/ler/" + nId
ReqSolicitar..Method = httpGet
ReqSolicitar..ContentType = "application/json"
ReqSolicitar..IgnoreError = httpIgnoreInvalidCertificate

ResRetorno is httpResponse = RESTSend(ReqSolicitar)

IF ResRetorno.StatusCode = 200 THEN
    jRetorno is JSON = ResRetorno..Content

    :TBL_UsuariosID = jRetorno.TBL_UsuariosID
    :UsuNome = jRetorno.UsuNome
    :UsuSenha = jRetorno.UsuSenha
    :UsuEmail = jRetorno.UsuEmail
    :UsuCelular = jRetorno.UsuCelular

    ToastDisplay("Usuário localizado com sucesso", toastLong, vaMiddle, haCenter)

    RETURN True
ELSE
    ToastDisplay("Erro ao localizar o usuário", toastLong, vaMiddle, haCenter)

    RETURN False
END

```

Method lista

```

PROCEDURE PUBLIC GLOBAL lista()

```

```

arrUsuarios is array of Cls_Usuarios
clUsuario is Cls_Usuarios
ReqSolicitar is httpRequest
ReqSolicitar..URL = gsLink_WebService + "/usuarios/lista"
ReqSolicitar..Method = httpGet
ReqSolicitar..ContentType = "application/json"
ReqSolicitar..IgnoreError = httpIgnoreInvalidCertificate

ResRetorno is httpResponse = RESTSend(ReqSolicitar)

IF ResRetorno.StatusCode = 200 THEN
    jRetorno is JSON = ResRetorno..Content
    nQuant is int = jRetorno..Count

    FOR i = 1 TO nQuant
        clUsuario = new Cls_Usuarios()
        clUsuario:TBL_UsuariosID = jRetorno[i].TBL_UsuariosID
        clUsuario:UsuNome = jRetorno[i].UsuNome
        clUsuario:UsuSenha = jRetorno[i].UsuSenha
        clUsuario:UsuEmail = jRetorno[i].UsuEmail
        clUsuario:UsuCelular = jRetorno[i].UsuCelular

        ArrayAdd(arrUsuarios,clUsuario)
    END
END

RETURN arrUsuarios

```

Method login

```

PROCEDURE login(): boolean

jRequisicao is JSON
jRequisicao.UsuSenha = :UsuSenha
jRequisicao.UsuEmail = :UsuEmail

ReqSolicitar is httpRequest
ReqSolicitar..URL = gsLink_WebService + "/usuarios/login"
ReqSolicitar..Method = httpPost
ReqSolicitar..ContentType = "application/json"
ReqSolicitar..IgnoreError = httpIgnoreInvalidCertificate
ReqSolicitar..Content = jRequisicao

ResRetorno is httpResponse = RESTSend(ReqSolicitar)

IF ResRetorno.StatusCode = 200 THEN
    jRetorno is JSON = ResRetorno..Content

    IF jRetorno.login = True THEN
        :TBL_UsuariosID = jRetorno.TBL_UsuariosID
        :UsuNome = jRetorno.UsuNome
        :UsuCelular = jRetorno.UsuCelular

        RETURN True
    ELSE
        ToastDisplay("Dados inválidos.",toastLong,vaMiddle,haCenter)
        RETURN False
    END
ELSE
    ToastDisplay("Erro ao efetuar login. Dados inválidos.",toastLong,vaMiddle,haCenter)
    RETURN False
END

```

Cls_Mensagens

Code

Declaration of Cls_Mensagens

```
Cls_Mensagens is Class
    TBL_MensagensID is 8-byte int = 0 //ID
    MsgUsuOrigem is 8-byte unsigned int = 0 //MsgUsuOrigem
    MsgUsuDestino is 8-byte unsigned int = 0 //MsgUsuDestino
    MsgDataEnvio is Date //MsgDataEnvio
    MsgHoraEnvio is Time //MsgHoraEnvio
    MsgConteudo is ANSI string = "" //MsgConteudo
    MsgLida is boolean = False //MsgLida
END
```

Method chat

```
PROCEDURE PUBLIC GLOBAL chat(LOCAL nUsuOri is int, LOCAL nUsuDest is int)

arrMensagens is array of Cls_Mensagens
clMensagens is Cls_Mensagens

jRequisicao is JSON
jRequisicao.MsgUsuOrigem = nUsuOri
jRequisicao.MsgUsuDestino = nUsuDest

ReqSolicitar is httpRequest
ReqSolicitar..URL = gsLink_WebService + "/mensagens/conversa"
ReqSolicitar..Method = httpPost
ReqSolicitar..ContentType = "application/json"
ReqSolicitar..IgnoreError = httpIgnoreInvalidCertificate
ReqSolicitar..Content = jRequisicao

ResRetorno is httpResponse = RESTSend(ReqSolicitar)

IF ResRetorno.StatusCode = 200 THEN
    jRetorno is JSON = ResRetorno..Content
    nQuant is int = jRetorno..Count

    FOR i = 1 TO nQuant
        clMensagens = new Cls_Mensagens()
        clMensagens:TBL_MensagensID = jRetorno[i].TBL_MensagensID
        clMensagens:MsgUsuOrigem = jRetorno[i].MsgUsuOrigem
        clMensagens:MsgUsuDestino = jRetorno[i].MsgUsuDestino
        clMensagens:MsgDataEnvio = jRetorno[i].MsgDataEnvio
        clMensagens:MsgHoraEnvio = jRetorno[i].MsgHoraEnvio
        clMensagens:MsgConteudo = jRetorno[i].MsgConteudo

        ArrayAdd(arrMensagens, clMensagens)
    END
END

RETURN arrMensagens
```

Constructor

```
PROCEDURE Constructor( )
```

Destructor

PROCEDURE Destructor()

Method inserir

PROCEDURE PUBLIC GLOBAL **inserir**(LOCAL nUsuOri is **int**, LOCAL nUsuDest is **int**, LOCAL sConteudo is **string**)

clMensagem is **Cls_Mensagens**

jRequisicao is **JSON**

jRequisicao.MsgUsuOrigem = nUsuOri

jRequisicao.MsgUsuDestino = nUsuDest

jRequisicao.MsgConteudo = sConteudo[[TO 144]]

ReqSolicitar is **HttpRequest**

ReqSolicitar..URL = **gsLink_WebService** + "/mensagens/inserir"

ReqSolicitar..Method = **HttpPost**

ReqSolicitar..ContentType = **"application/json"**

ReqSolicitar..IgnoreError = **httpIgnoreInvalidCertificate**

ReqSolicitar..Content = jRequisicao

ResRetorno is **HttpResponse** = **RESTSend**(ReqSolicitar)

IF ResRetorno.StatusCode = 200 THEN

sAux is **string**

jRetorno is **JSON** = ResRetorno..Content

clMensagem = new **Cls_Mensagens**()

clMensagem:TBL_MensagensID = jRetorno.TBL_MensagensID

clMensagem:MsgUsuOrigem = jRetorno.MsgUsuOrigem

clMensagem:MsgUsuDestino = jRetorno.MsgUsuDestino

clMensagem:MsgDataEnvio = **Replace**(jRetorno.MsgDataEnvio,"-", "")

sAux = jRetorno.MsgHoraEnvio

clMensagem:MsgHoraEnvio = **Replace**(sAux[[TO 8]],":", "")

clMensagem:MsgConteudo = jRetorno.MsgConteudo

END

RETURN clMensagem

Part 5

UML model

UML model

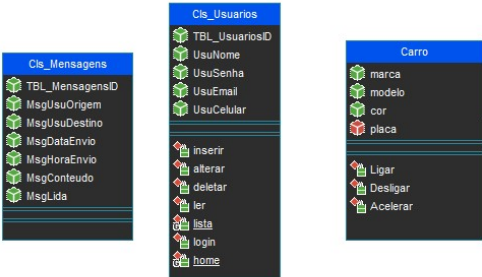
General information

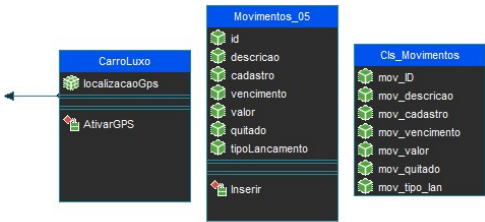
Model name	Template
Model location	D:\My UNEX Projects\My_Project\Template.uml

Class diagram

Diagram

Class diagram





Class diagram

List of elements

Name	Type	Caption
CarroLuxo	Class	
Movimentos_05	Class	
Cls_Movimentos	Class	
Cls_Mensagens	Class	
Cls_Usuarios	Class	
Carro	Class	

CarroLuxo

Type : Class
ancestor class : Carro

Attribute

Visibility	Global	Name	Type	Initial value
		localizacaoGps	advanced	

operation

Visibility	Global	Virtual	Abstract	Name	Return type
				AtivarGPS	

		Public			Protected			Private
--	--	--------	--	--	-----------	--	--	---------

Movimentos_05

Type : Class

Attributes

Visibility	Global	Name	Type	Initial value
		id	int	0
		descricao	string	
		cadastro	date	
		vencimento	date	
		valor	currency	
		quitado	int	0
		tipoLancamento	int	0

operation

Visibility	Global	Virtual	Abstract	Name	Return type
				Inserir	
Parameter 1		arrMov		array	In/Out

		Public			Protected			Private
--	--	--------	--	--	-----------	--	--	---------

Cls_Movimentos

Type : Class

Attributes

Visibility	Global	Name	Type	Initial value
		mov_ID	8-byte int	
		mov_descricao	ANSI string	
		mov_cadastro	date	
		mov_vencimento	date	

Visibility	Global	Name	Type	Initial value
		mov_valor	currency	
		mov_quitado	boolean	
		mov_tipo_lan	1-byte int	

Operations

Visibility	Global	Virtual	Abstract	Name	Return type
				Inserir	
				Alterar	
				Remover	
				buscar	
Parameter 1		nldMovimento		int	Entry

		Public			Protected			Private
--	--	--------	--	--	-----------	--	--	---------

Cls_Mensagens

Type : Class

Attributes

Visibility	Global	Name	Type	Initial value
		TBL_MensagensID	8-byte int	0
		MsgUsuOrigem	8-byte unsigned int	0
		MsgUsuDestino	8-byte unsigned int	0
		MsgDataEnvio	date	
		MsgHoraEnvio	time	
		MsgConteudo	ANSI string	
		MsgLida	boolean	0

Operations

Visibility	Global	Virtual	Abstract	Name	Return type
	✓			chat	array
Parameter 1				nUsuOri	int
Parameter 2				nUsuDest	int
	✓			inserir	object
Parameter 1				nUsuOri	int
Parameter 2				nUsuDest	int
Parameter 3				sConteudo	string

		Public			Protected			Private
--	--	--------	--	--	-----------	--	--	---------

Cls_Usuarios

Type : Class

Attributes

Visibility	Global	Name	Type	Initial value
		TBL_UsuariosID	8-byte int	0
		UsuNome	string	
		UsuSenha	string	
		UsuEmail	string	
		UsuCelular	string	

Operations

Visibility	Global	Virtual	Abstract	Name	Return type
				inserir	boolean
				alterar	boolean
				deletar	boolean
				ler	boolean
Parameter 1				nId	int
	✓			lista	array

Visibility	Global	Virtual	Abstract	Name	Return type
				login	boolean
	✓			home	array

		Public			Protected			Private
--	--	--------	--	--	-----------	--	--	---------

Carro

Type : Class

Attributes

Visibility	Global	Name	Type	Initial value
		marca	string	
		modelo	string	
		cor	string	
		placa	string	

Operations

Visibility	Global	Virtual	Abstract	Name	Return type
				Ligar	
				Desligar	
				Acelerar	

		Public			Protected			Private
--	--	--------	--	--	-----------	--	--	---------

Part 6

Table of contents

Project My_Project

Part 1	Project	3
	General information	3
	List of project elements	3
	List of Custom-Folders	4
	Code	5
Part 2	Analysis	8
	Chart	8
	General information	9
	Item dictionary	9
	Connections	10
	Files and items	10
	TBL_Mensagens	10
	TBL_Usuarios	12
Part 3	WINDEV window	14
	WIN_Login	14
	Image	14
	General information	14
	Information on controls	15
	Code	21
	Control code	22
	WIN_Home	23
	Image	23
	General information	23
	Information on controls	25
	Code	32
	Control code	32
	WIN_Cadastro_de_Usuarios	35
	Image	35
	General information	35
	Information on controls	37
	Code	45
	Control code	46
	WIN_Chat	49
	Image	49
	General information	49

	Information on controls	51
	Code	62
	Control code	63
	Procedures	66
<hr/>		
Part 4	Class	68
	Cls_Usuarios	68
	Code	68
	Cls_Mensagens	72
	Code	72
<hr/>		
Part 5	UML model	75
	General information	75
	Class diagram	75
	<i>Diagram</i>	75
	<i>List of elements</i>	77