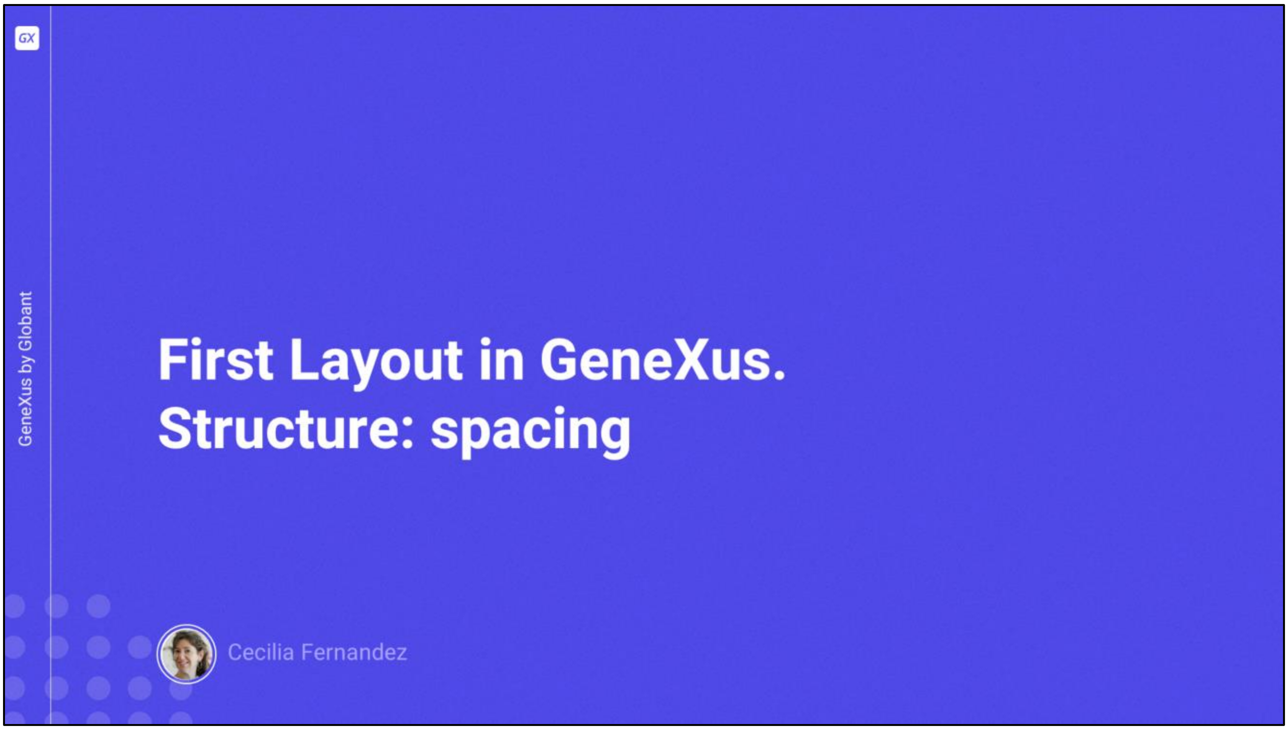


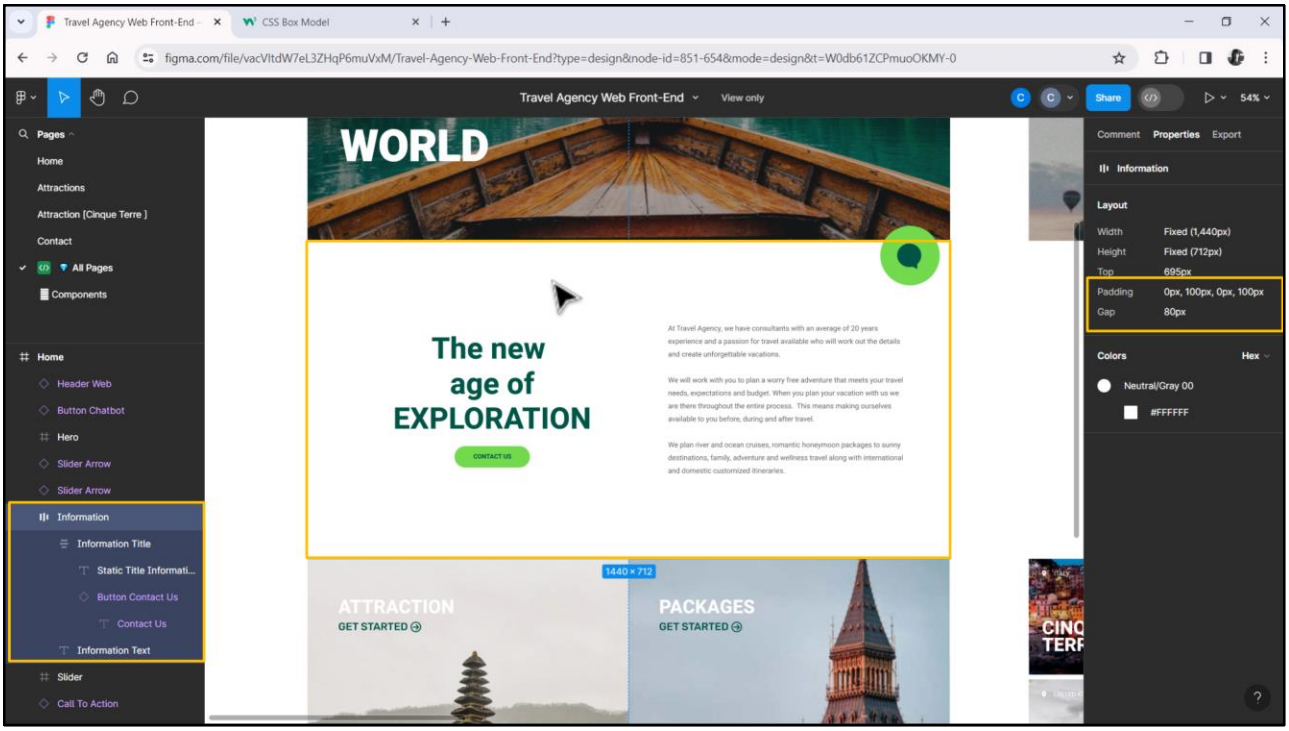
GX

GeneXus by Globant

First Layout in GeneXus. Structure: spacing

Cecilia Fernandez

Let's pick up where we left off in the previous video.



At Travel Agency, we have consultants with an average of 20 years experience and a passion for travel available who will work out the details and create unforgettable vacations.

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Layout

Width	Fixed (1,440px)
Height	Fixed (712px)
Top	695px
Padding	0px, 100px, 0px, 100px
Gap	80px

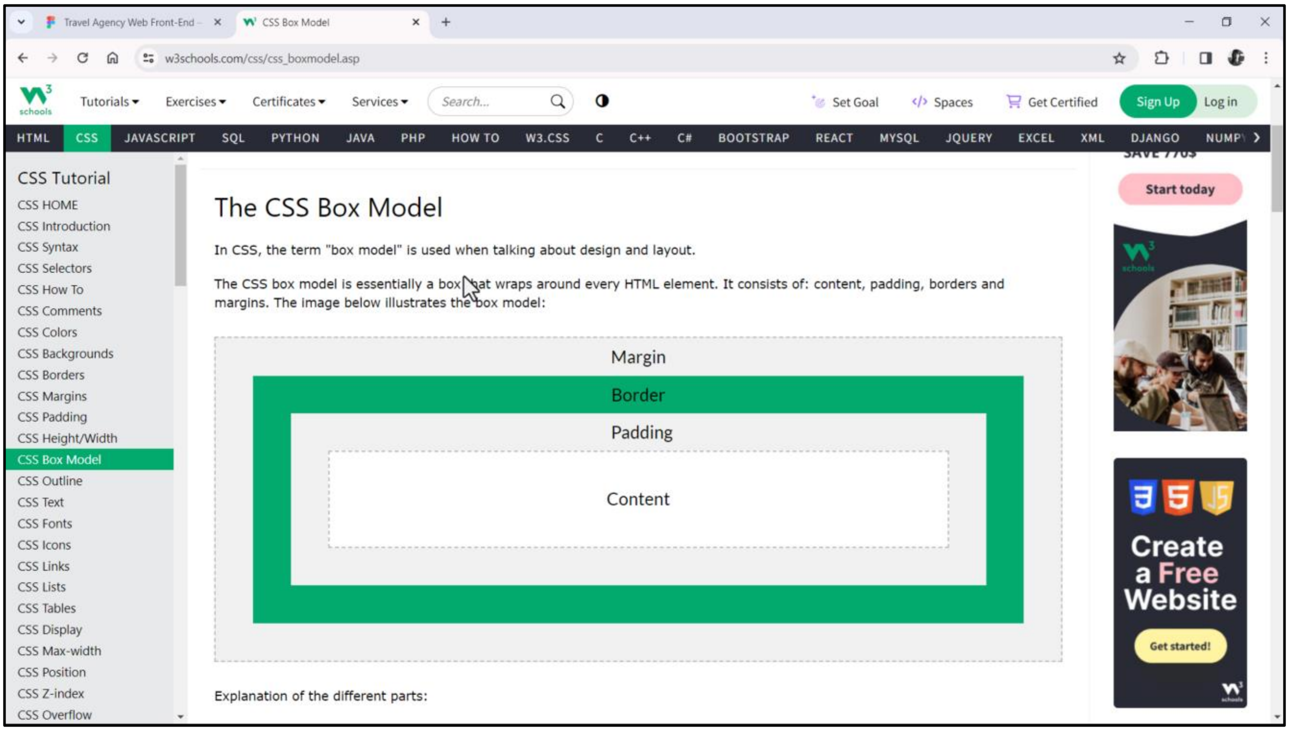
Colors Hex

● Neutral/Gray 00

□ #FFFFFF

We had said that before looking into the sizes of this inner table we were going to look at some aspects of the outer table.

What else do we know by inspecting this frame? We see these properties here, and in particular let's pay attention to these two, which will have to do with spacing, precisely, within the content.



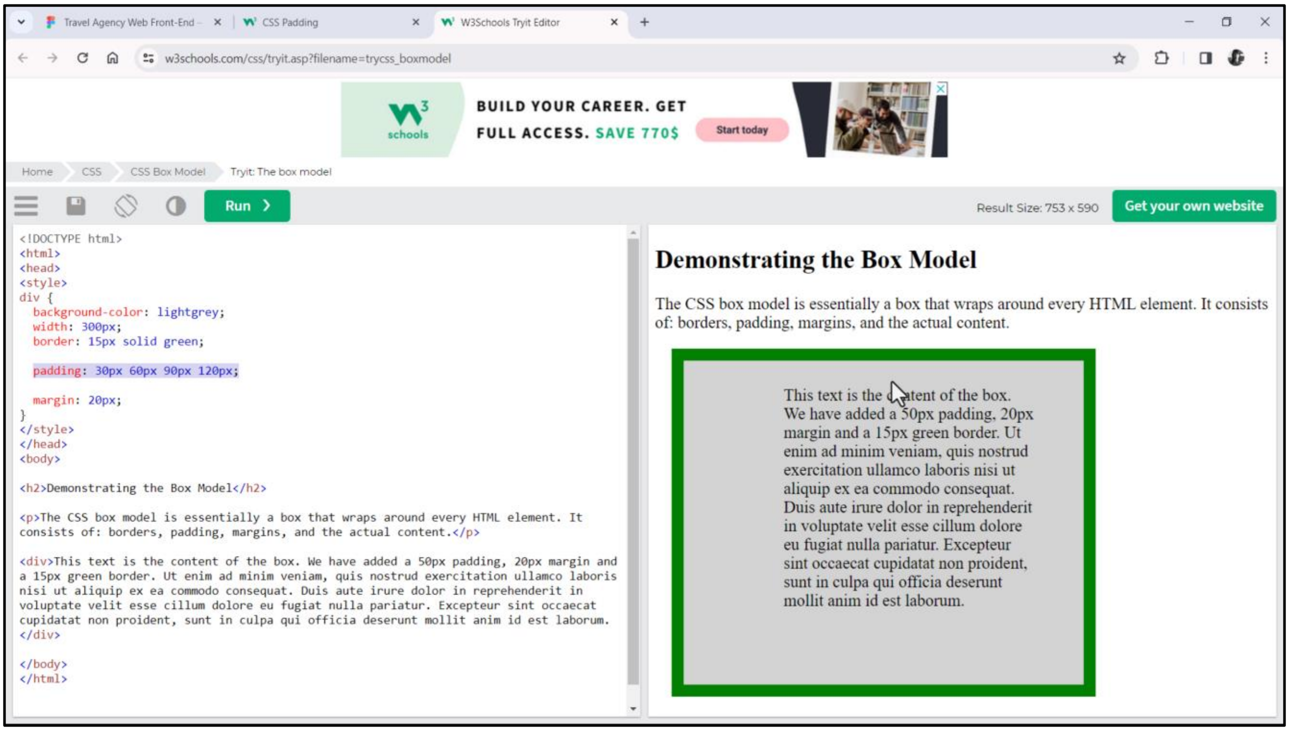
The CSS Box Model

In CSS, the term "box model" is used when talking about design and layout.

The CSS box model is essentially a box that wraps around every HTML element. It consists of: content, padding, borders and margins. The image below illustrates the box model:

Explanation of the different parts:

We already know that Padding inside the CSS box model is the internal spacing of the content with respect to the 4 borders...
That is, this is the edge of the element, which in this representation has a border of this size, and an internal spacing of this size.



```
<!DOCTYPE html>
<html>
<head>
<style>
div {
  background-color: lightgrey;
  width: 300px;
  border: 15px solid green;

  padding: 30px 60px 90px 120px;

  margin: 20px;
}
</style>
</head>
<body>

<h2>Demonstrating the Box Model</h2>

<p>The CSS box model is essentially a box that wraps around every HTML element. It
consists of: borders, padding, margins, and the actual content.</p>

<div>This text is the content of the box. We have added a 50px padding, 20px margin and
a 15px green border. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris
nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in
voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat
cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.
</div>

</body>
</html>
```

Demonstrating the Box Model

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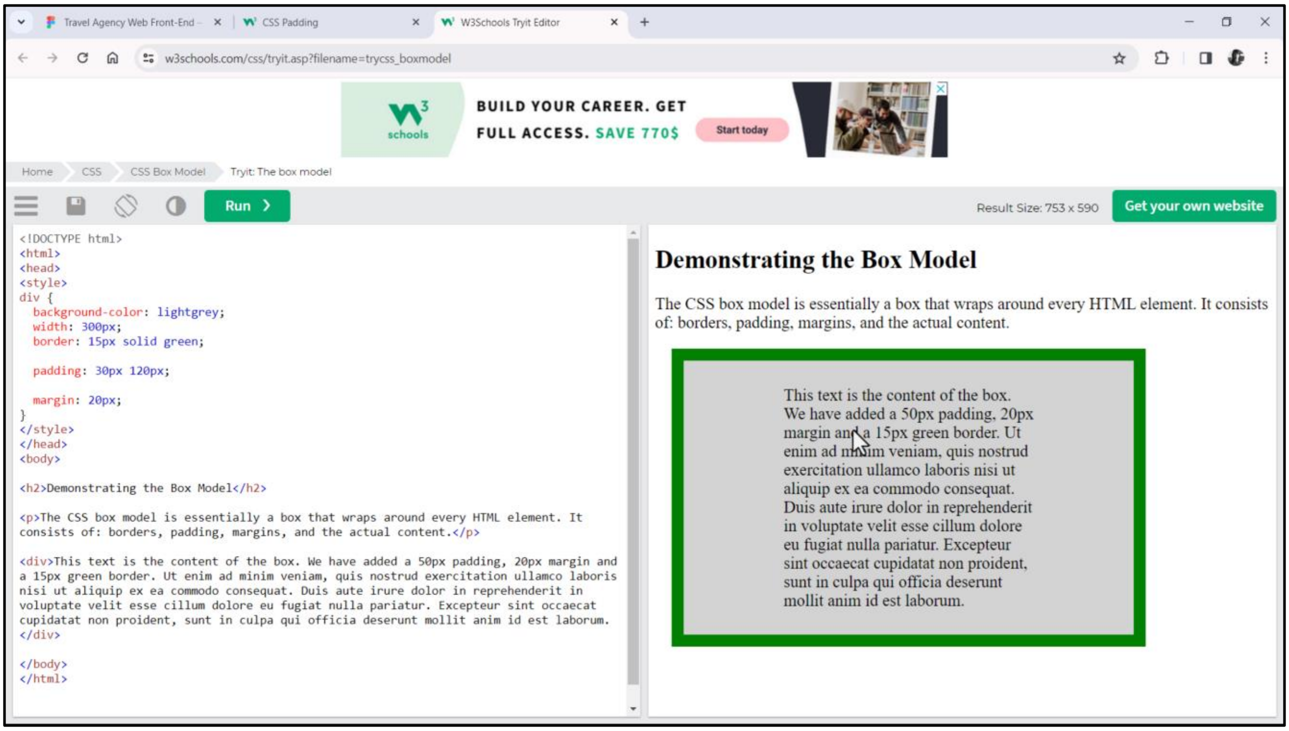
As we know, the Padding doesn't have to be even all around. This is an example, a test, where I’m setting padding-top —the padding relative to the top edge— to 30 pixels; the padding relative to the right edge —padding-right— to 60; padding-bottom to 90; and padding-left to 120. This is the shorthand notation. We could use each of the properties separately.



```
<!DOCTYPE html>
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voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat
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</div>

</body>
</html>
```

Demonstrating the Box Model

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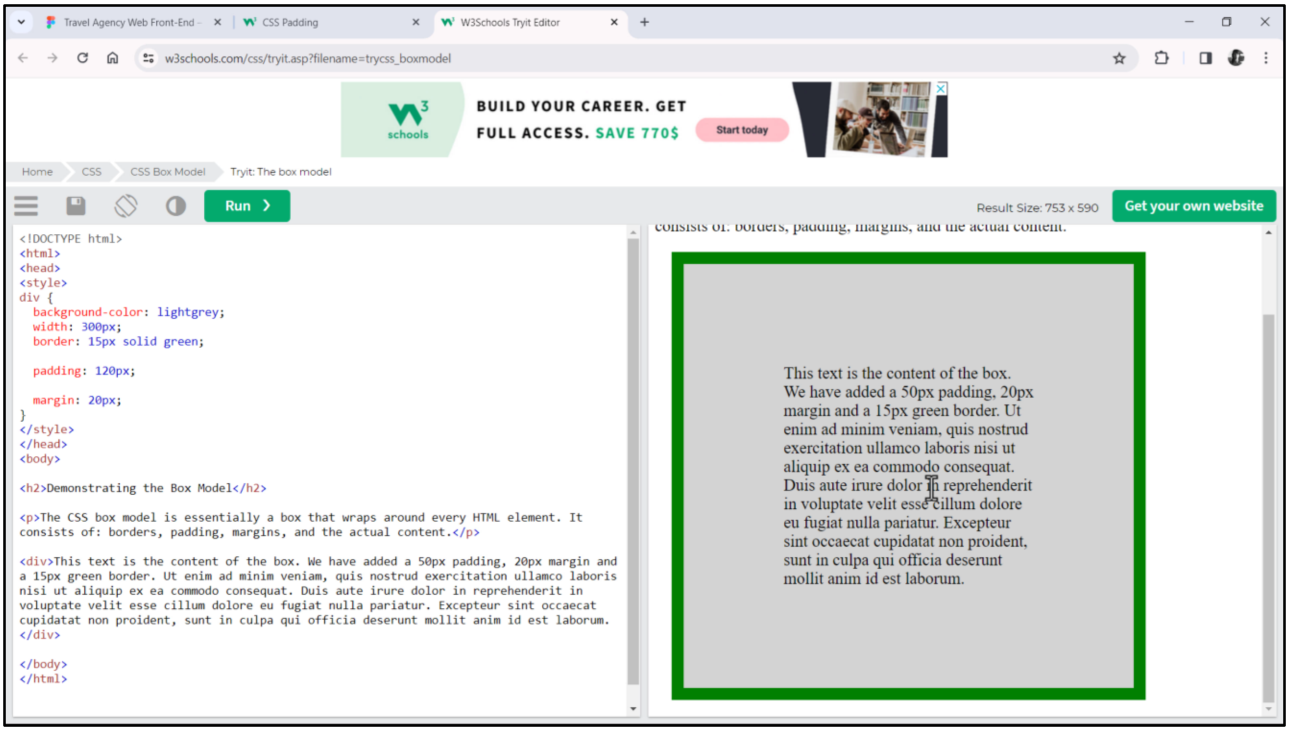
For example, if we want the top and bottom to be the same, and right and left as well, we shorten it like this, and there we see how top and bottom are 30, right and left 120...



```
<!DOCTYPE html>
<html>
<head>
<style>
div {
  background-color: lightgrey;
  width: 300px;
  border: 15px solid green;

  padding: 120px;

  margin: 20px;
}
</style>
</head>
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voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat
cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.
</div>

</body>
</html>
```

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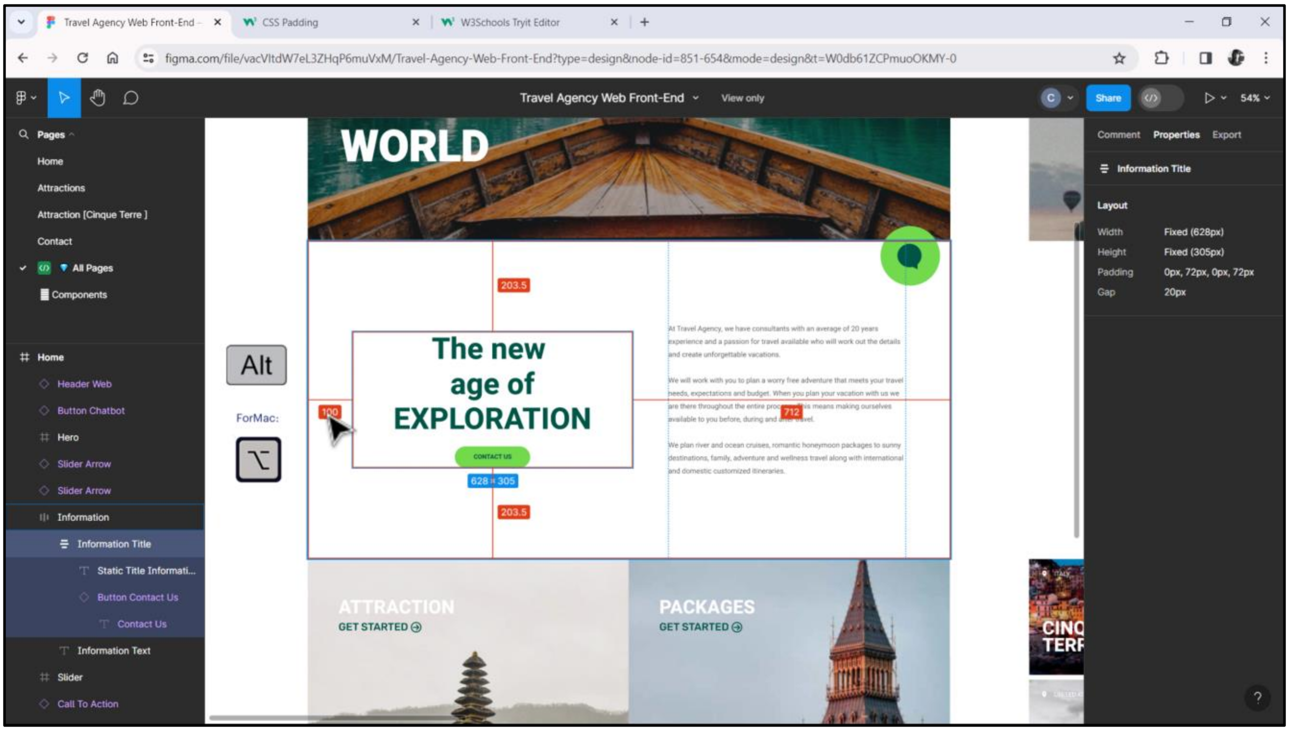
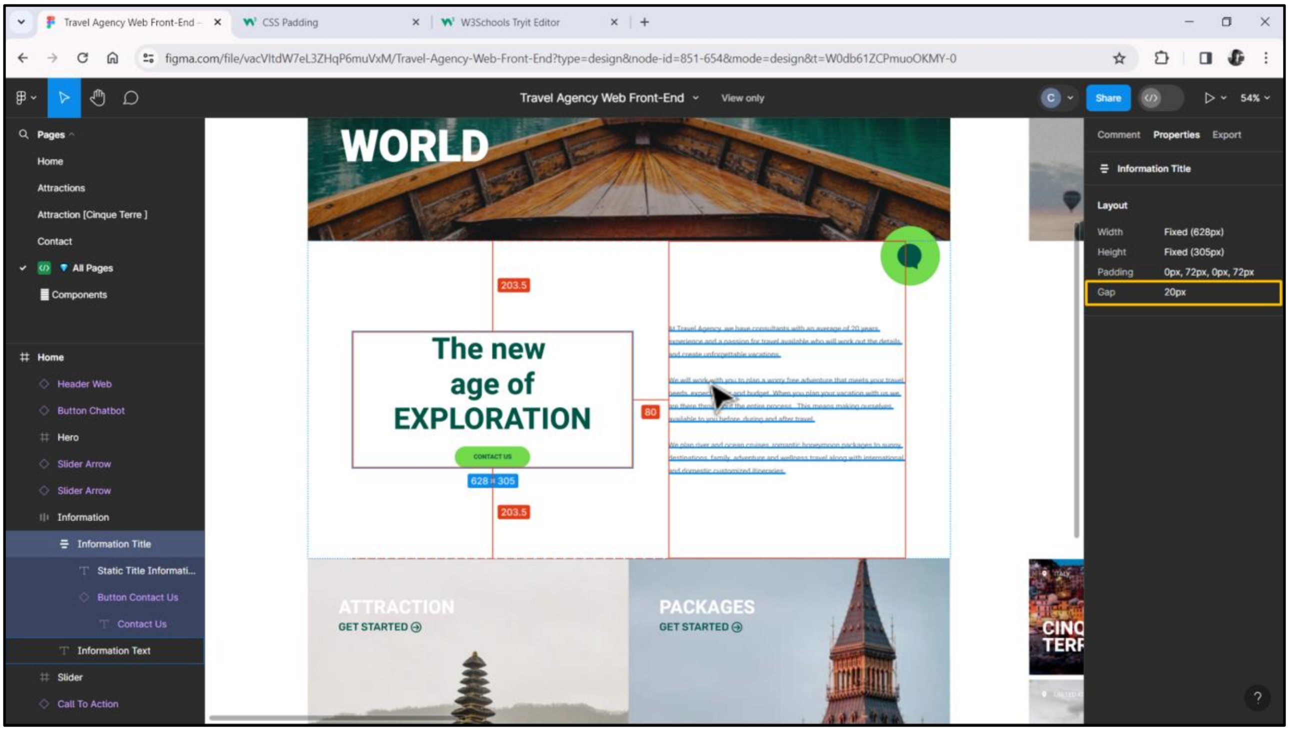
... or even if we leave only one, this means that the same padding will be applied on all four sides.



So we know that there will be a padding of 100 pixels on the left and 100 pixels on the right. And we can also see this graphically by choosing the first element and with the ALT key if we are in Windows, we see these 100 pixels here... and if now we select this other element we see these 100 pixels here.



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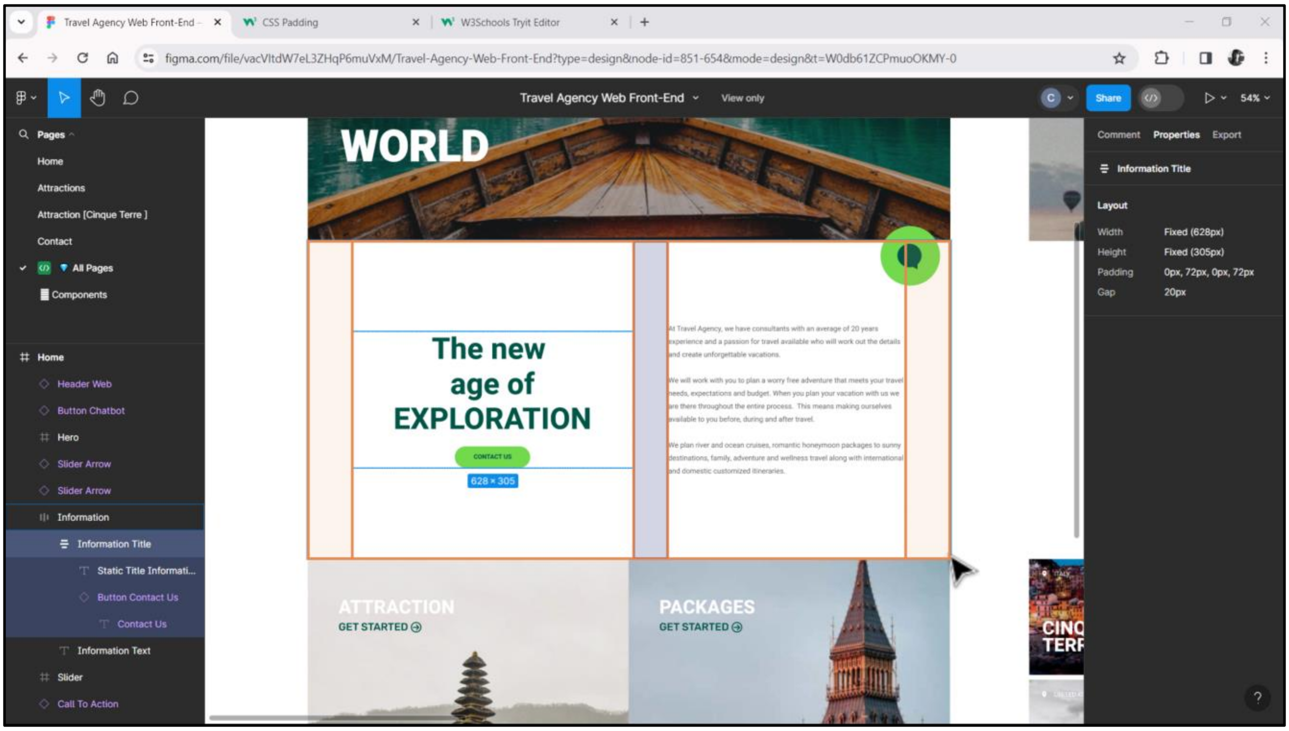
Width Fixed (628px)
Height Fixed (305px)
Padding 0px, 72px, 0px, 72px
Gap 20px

Lastly, what about the gap, what is it? It's no more and no less than the distance between the internal elements of the container. Again, in this case, if we select this one and look at how it relates to this element, we see these 80 indicated there.



Layout

Width	Fixed (628px)
Height	Fixed (305px)
Padding	0px, 72px, 0px, 72px
Gap	20px

There are several ways to set this spacing in GeneXus. One will be almost a literal translation of these properties. We will see it later, when we move on to specifying the DSO. But another one will be more structural: what if we think of these empty spaces not as paddings, but as empty columns? That is, the Main table will have 5 columns instead of 2: the first and the last one will be 100 pixels wide, and the middle one will be 80 pixels wide.

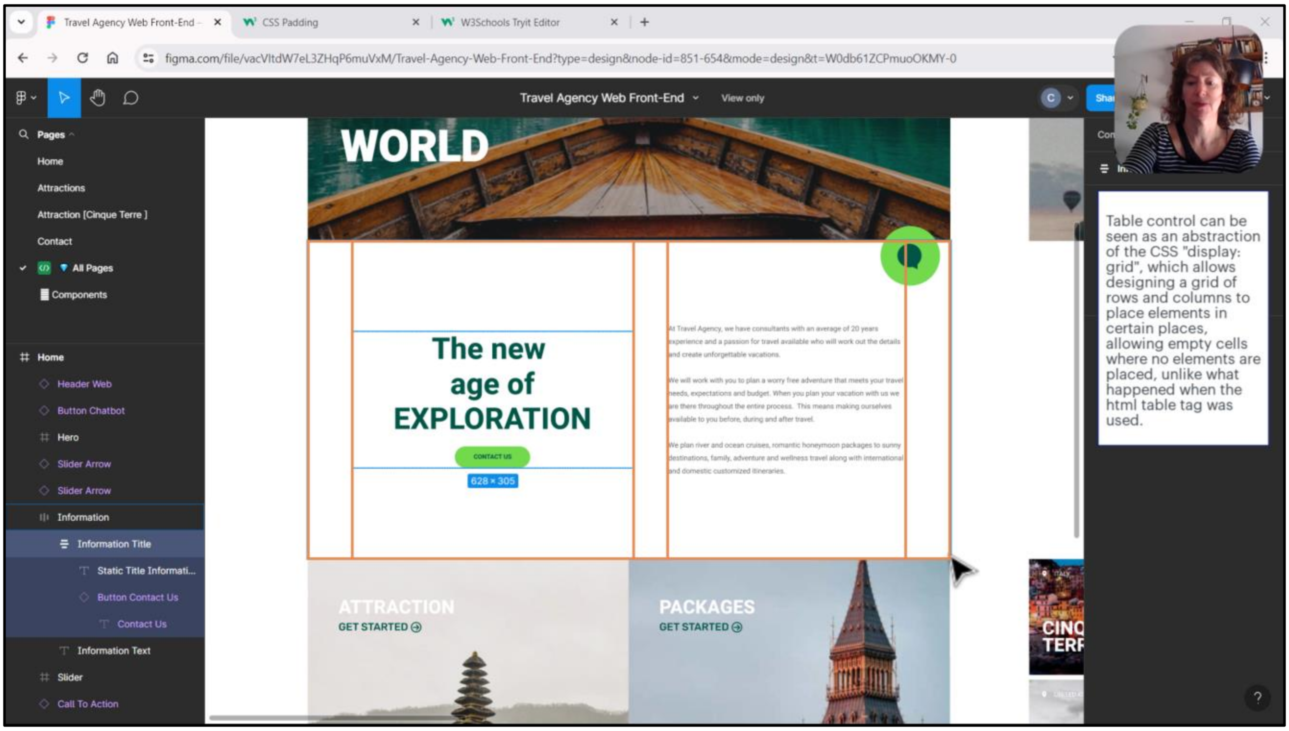


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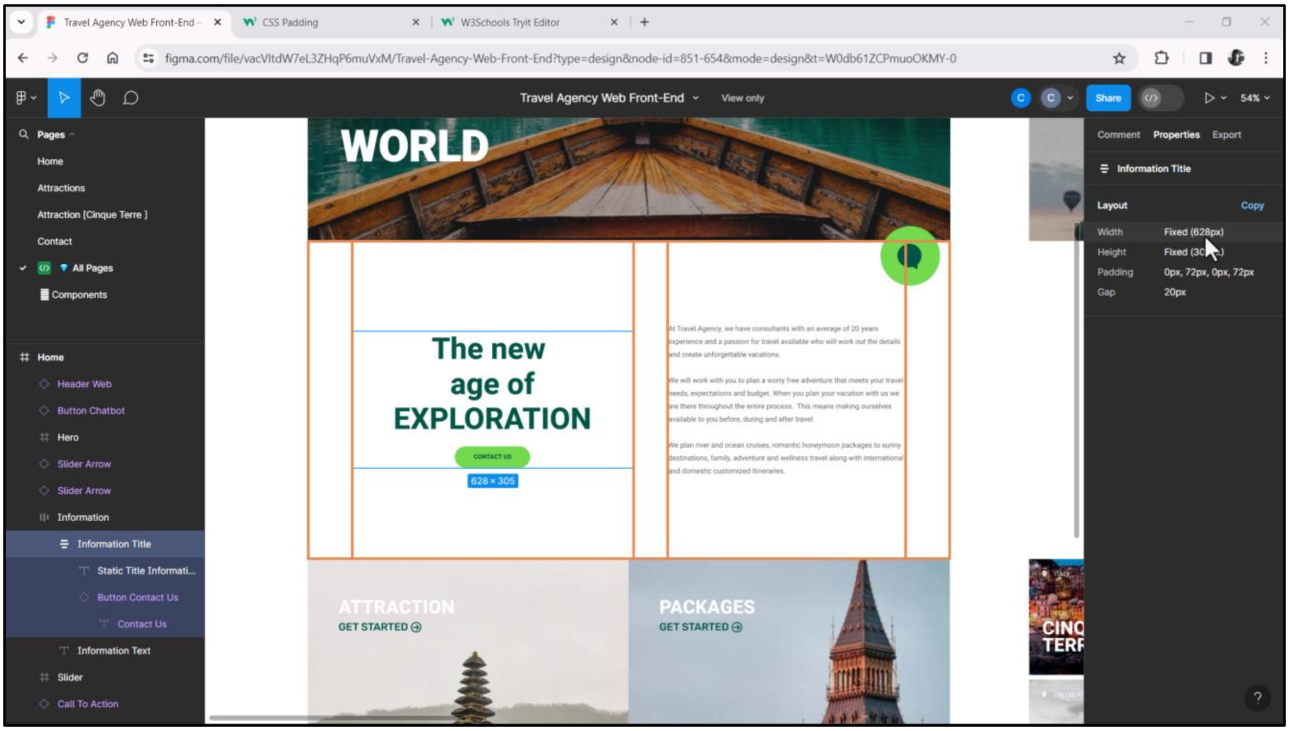
Table control can be seen as an abstraction of the CSS "display: grid", which allows designing a grid of rows and columns to place elements in certain places, allowing empty cells where no elements are placed, unlike what happened when the html table tag was used.

Some of you may be wondering whether leaving empty columns will represent a performance problem. The answer is no and I leave a short explanation here.



Width Fixed (628px)
Height Fixed (30
Padding 0px, 72px, 0px, 72px
Gap 20px

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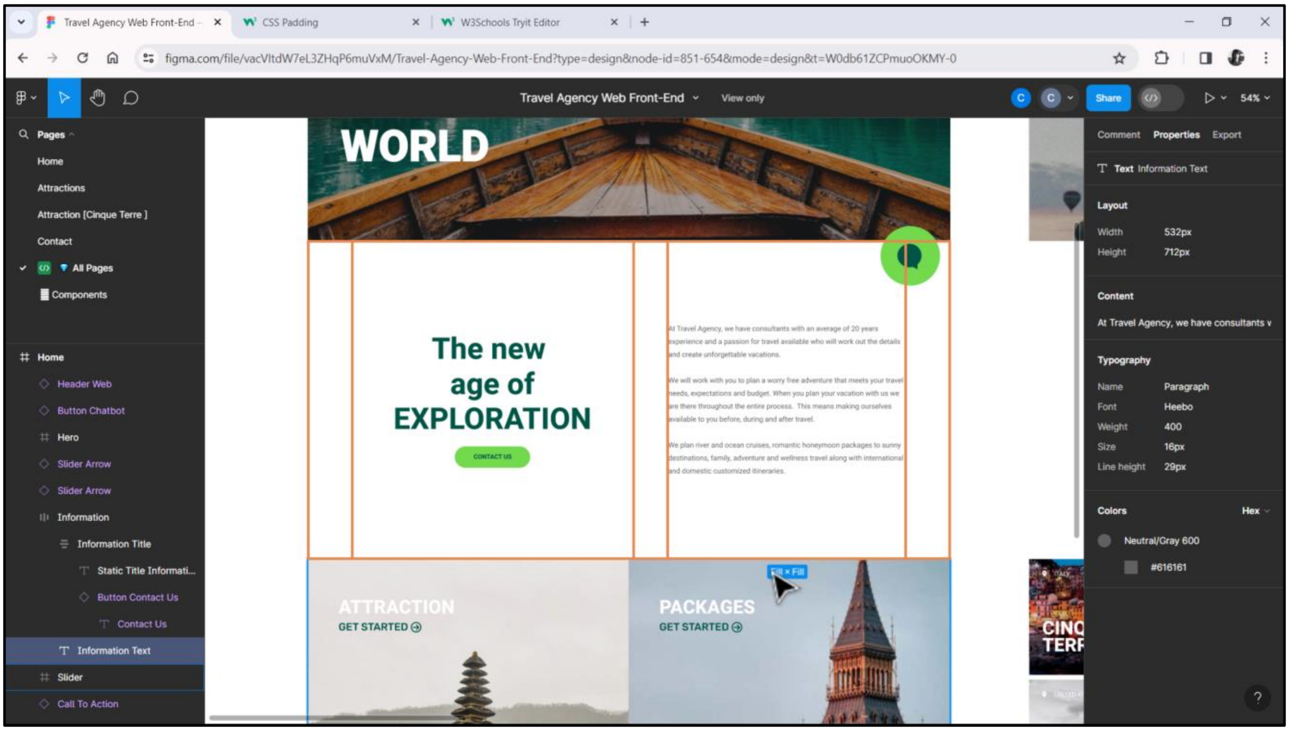
And the other two, those of the content itself, how wide should they be? If we analyze the width of the first element, we see that it is fixed, 628 pixels.



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Text Information Text

Layout

Width 532px
Height 712px

Content

At Travel Agency, we have consultants v

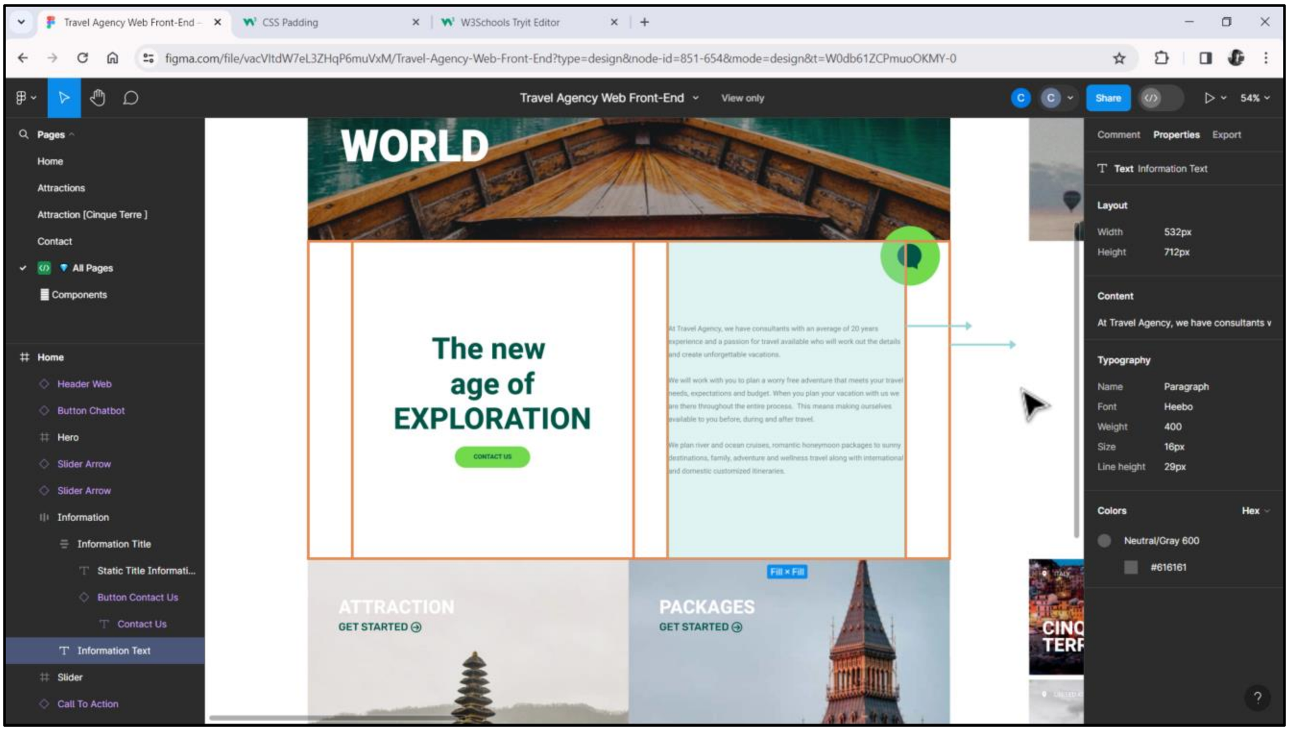
Typography

Name Paragraph
Font Heebo
Weight 400
Size 16px
Line height 29px

Colors Hex

Neutral/Gray 600
#616161

And if we analyze the second element, it is no longer fixed, it says Fill. That is, it will take up all the size available, both horizontally and vertically.



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Layout

Width 532px

Height 712px

Content

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Typography

Name Paragraph

Font Heebo

Weight 400

Size 16px

Line height 29px

Colors Hex

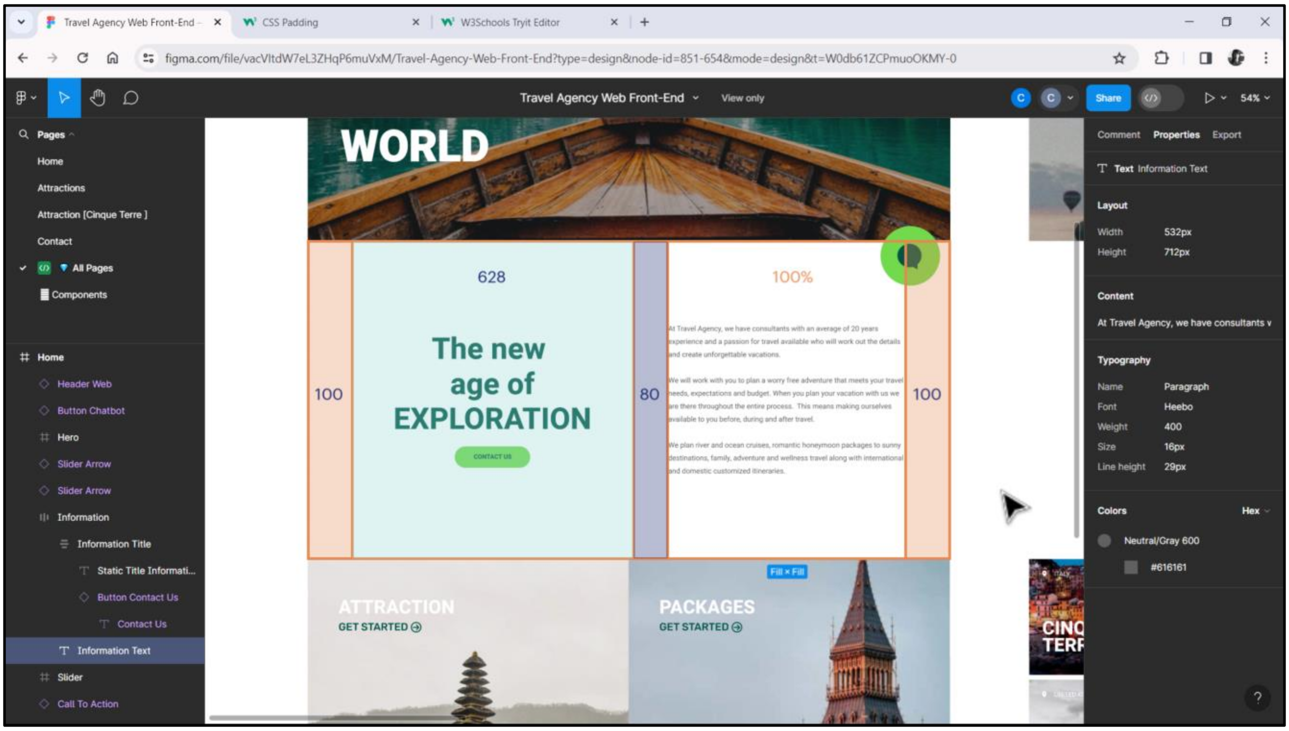
Neutral/Gray 600

#616161

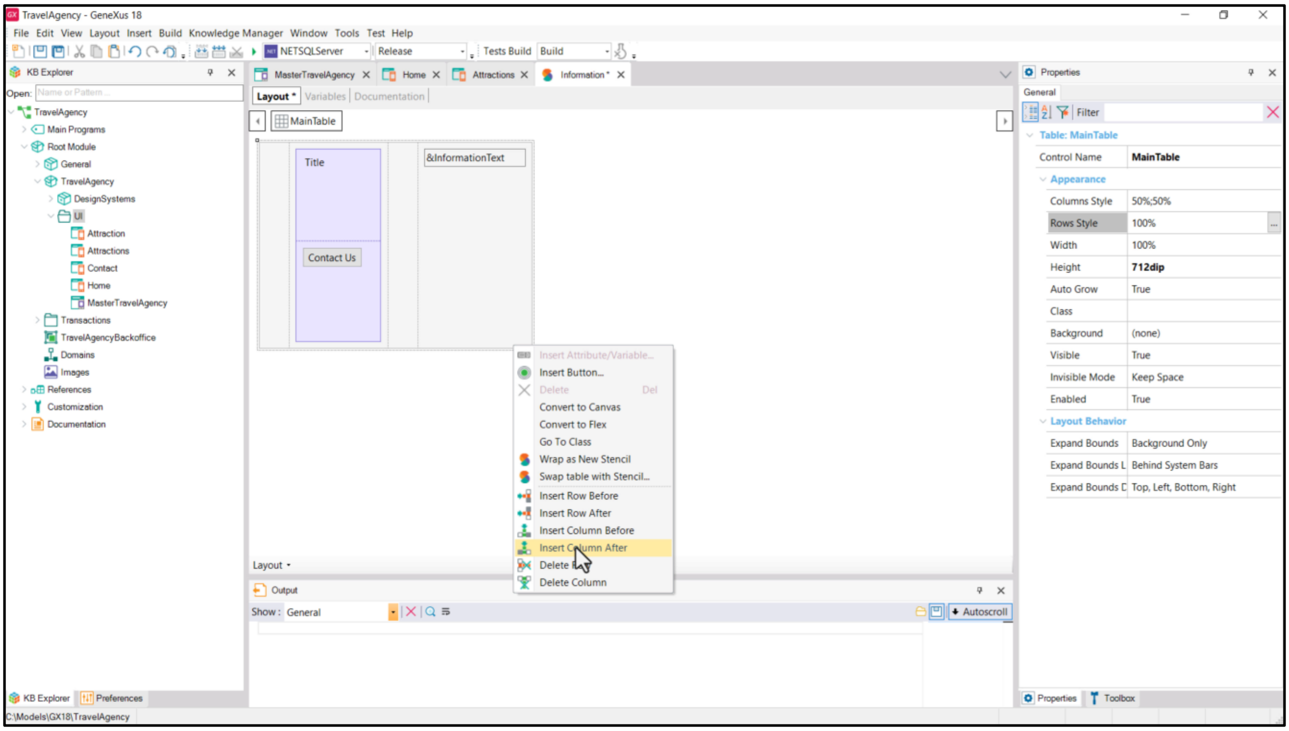
This means that if I extend the browser's border to the right, leaving the element on the left unchanged, the one on the right will expand to the right as well.

And if I reduce the size, it will also get smaller. The spaces, on the other hand, will always remain fixed: 100, 80, and 100 pixels.

We should ask the designer if what we have inferred is indeed the behavior expected by her when designing like this. If she says yes, then we already know that our column 2 will have a fixed size, 628 dips, and the fourth column is the one that will have to adapt to the remaining width.

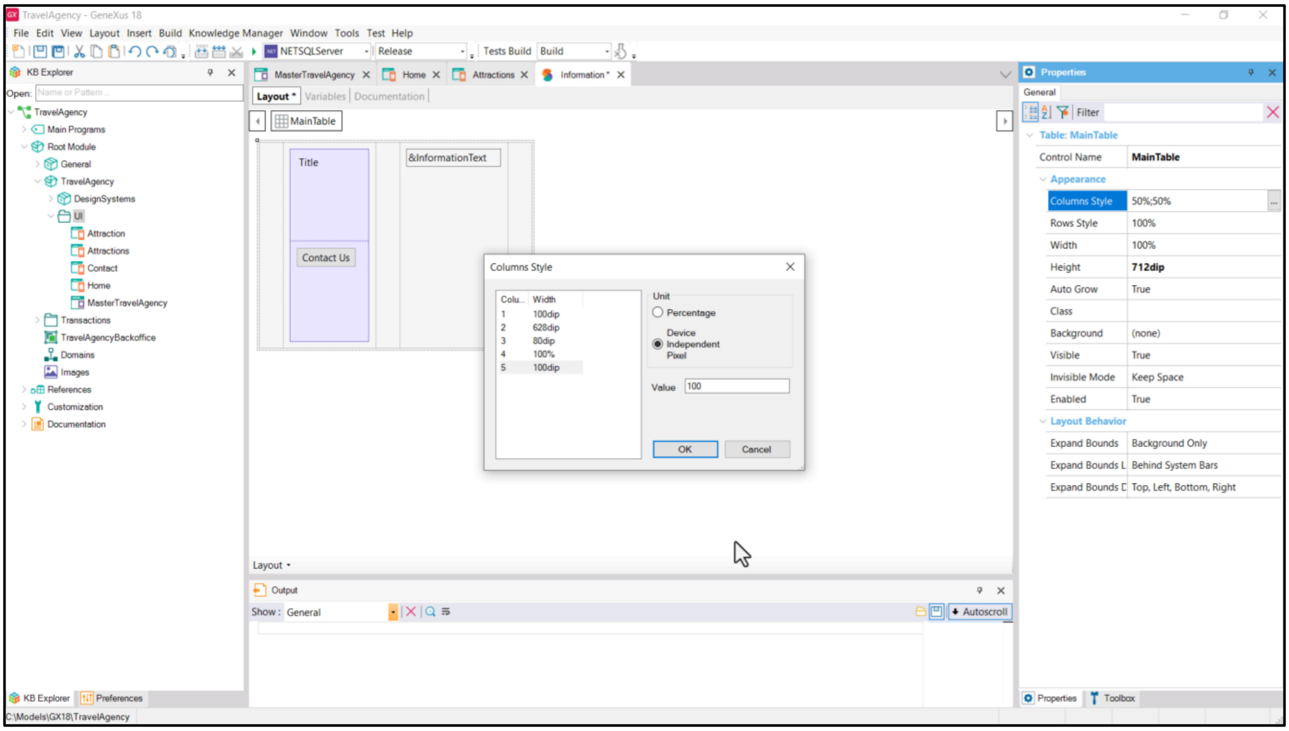


That is, we will set its width to 100%. Of what? Of the width remaining after subtracting the fixed widths from the total width of the table.



Control Name	MainTable
Columns Style	50%;50%
Rows Style	100%
Width	100%
Height	712dip
Auto Grow	True
Class	
Background	(none)
Visible	True
Invisible Mode	Keep Space
Enabled	True
Expand Bounds	Background Only
Expand Bounds L	Behind System Bars
Expand Bounds D	Top, Left, Bottom, Right

So we add a column to the left of this one, and another after this other one.



Columns Style

Colu...	Width
1	100dip
2	628dip
3	80dip
4	100%
5	100dip

Unit

○ Percentage

● Device Independent Pixel

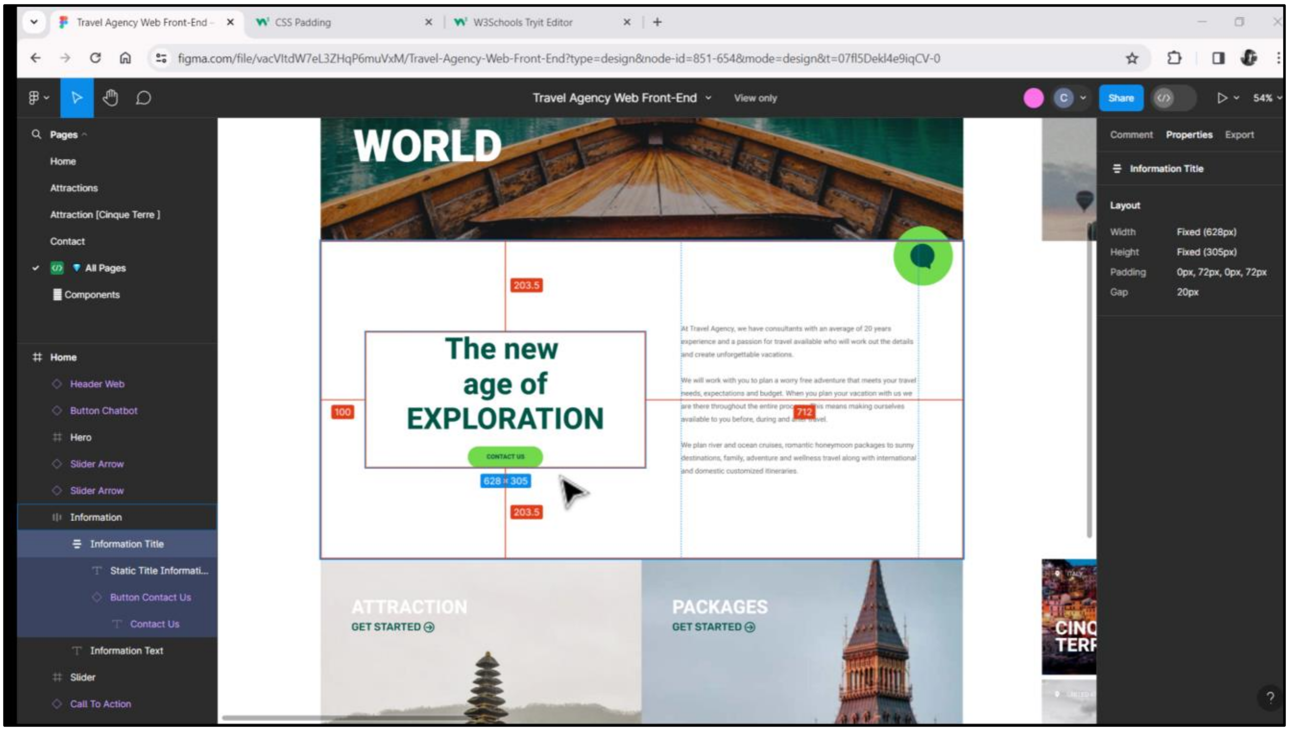
Value: 100

OK Cancel

Table: MainTable

Control Name	MainTable
Appearance	
Columns Style	50%;50%
Rows Style	100%
Width	100%
Height	712dip
Auto Grow	True
Class	
Background	(none)
Visible	True
Invisible Mode	Keep Space
Enabled	True
Layout Behavior	
Expand Bounds	Background Only
Expand Bounds L	Behind System Bars
Expand Bounds D	Top, Left, Bottom, Right

And now we establish their widths.
We can do it from here... 100, for the second one: 628, for the third one: 80 dips, for the fourth one 100%, and for the fifth one 100 dips. We save.



Layout

Width: Fixed (628px)
Height: Fixed (305px)
Padding: 0px, 72px, 0px, 72px
Gap: 20px

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What about these spaces, at the top and the bottom? Do we have to do the same and place empty rows this time? Not necessarily.

Our designer has indicated that this banner will have a fixed height of 305 pixels. And it is clearly centered vertically. We can see it with those 203.5 pixels on each side of the border. So it would be enough to do this in GeneXus...

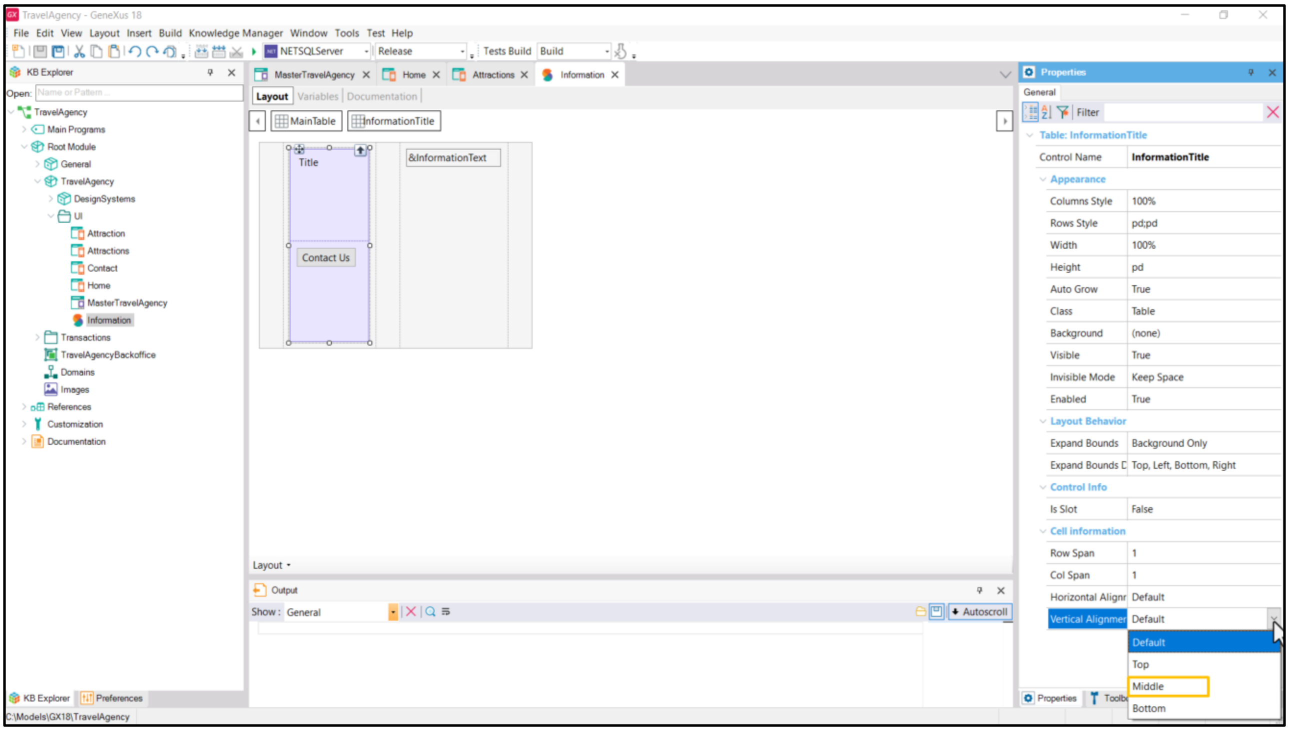
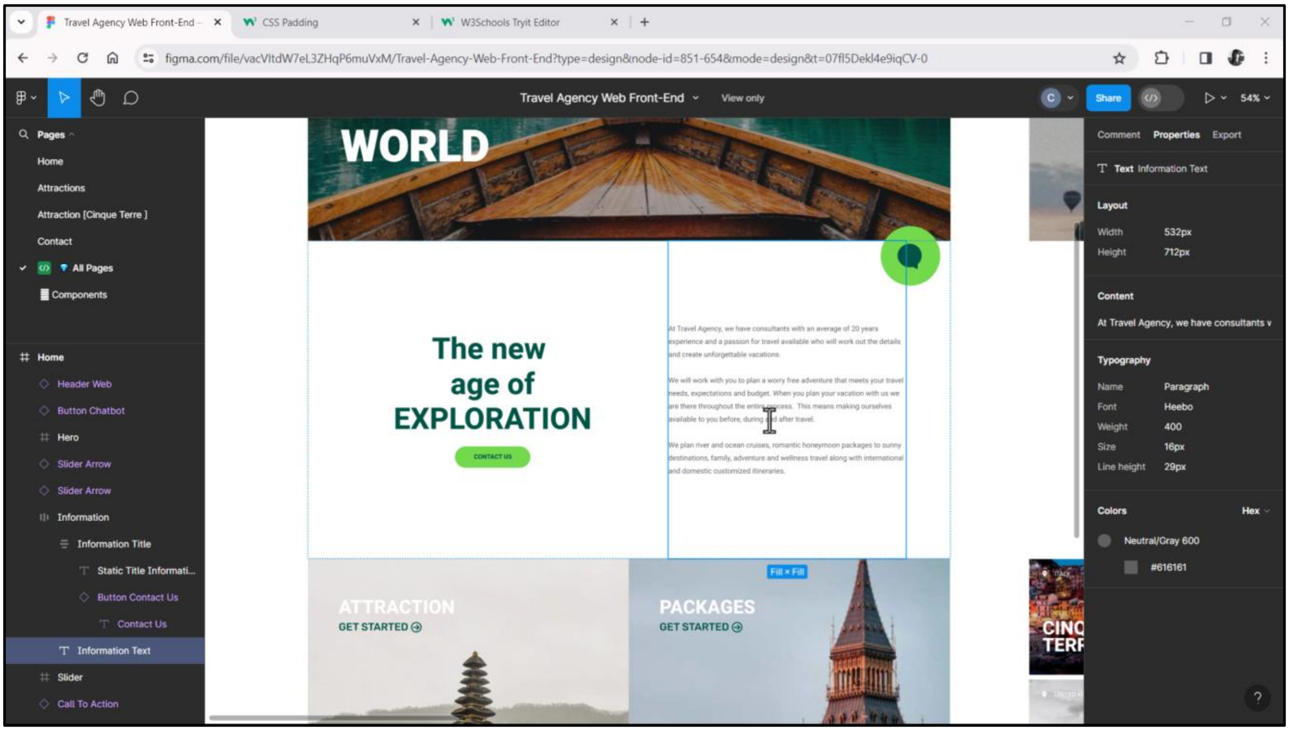


Table: InformationTitle

Control Name	InformationTitle
Appearance	
Columns Style	100%
Rows Style	pd;pd
Width	100%
Height	pd
Auto Grow	True
Class	Table
Background	(none)
Visible	True
Invisible Mode	Keep Space
Enabled	True
Layout Behavior	
Expand Bounds	Background Only
Expand Bounds D	Top, Left, Bottom, Right
Control Info	
Is Slot	False
Cell information	
Row Span	1
Col Span	1
Horizontal Alignr	Default
Vertical Alignmer	Default

Edit the table, and set Middle as vertical alignment.



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Text Information Text

Layout

Width 532px
Height 712px

Content

At Travel Agency, we have consultants v

Typography

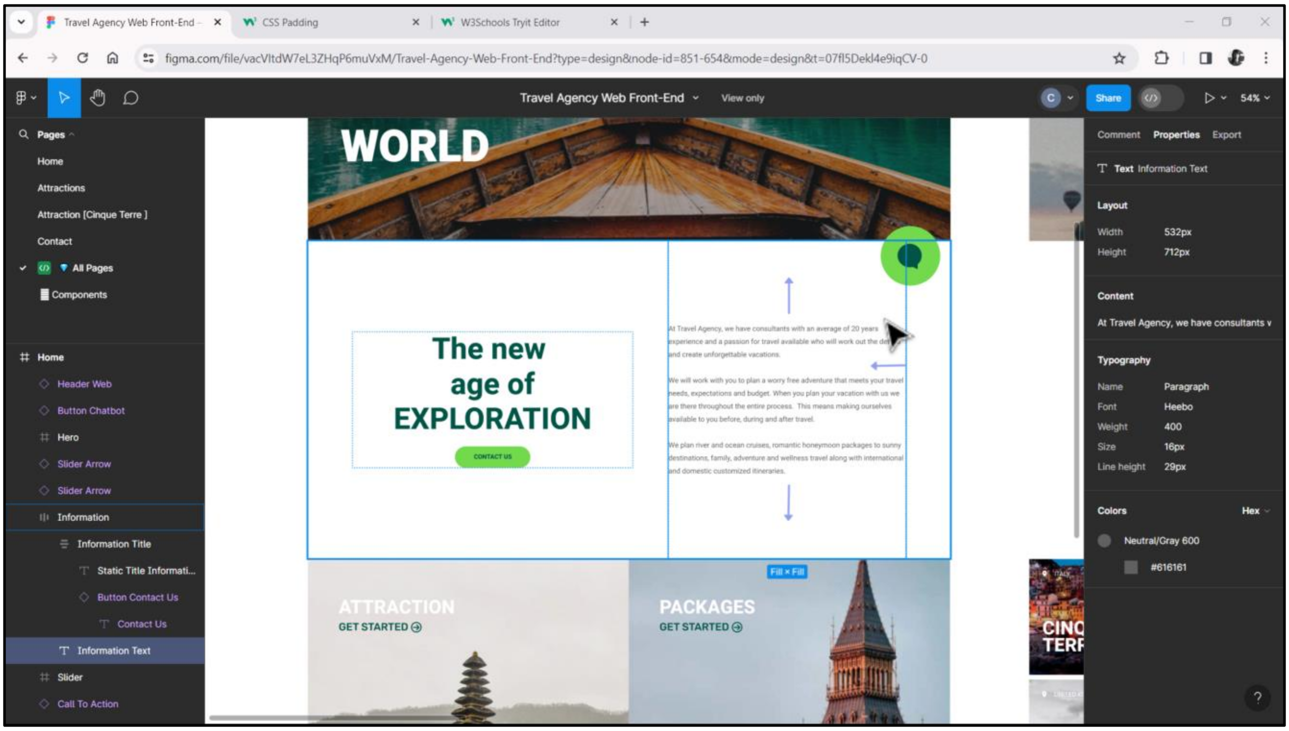
Name Paragraph
Font Heebo
Weight 400
Size 16px
Line height 29px

Colors Hex

Neutral/Gray 600
#616161

On the other hand, this other element, the text, which is also vertically centered, does not have a fixed height but says Fill.

How much it ends taking up will depend on the amount of text. We know that if the text is exactly this, it's going to look like this, but if there were more text, there would be less space above and below. Eventually, there could be no space at all.



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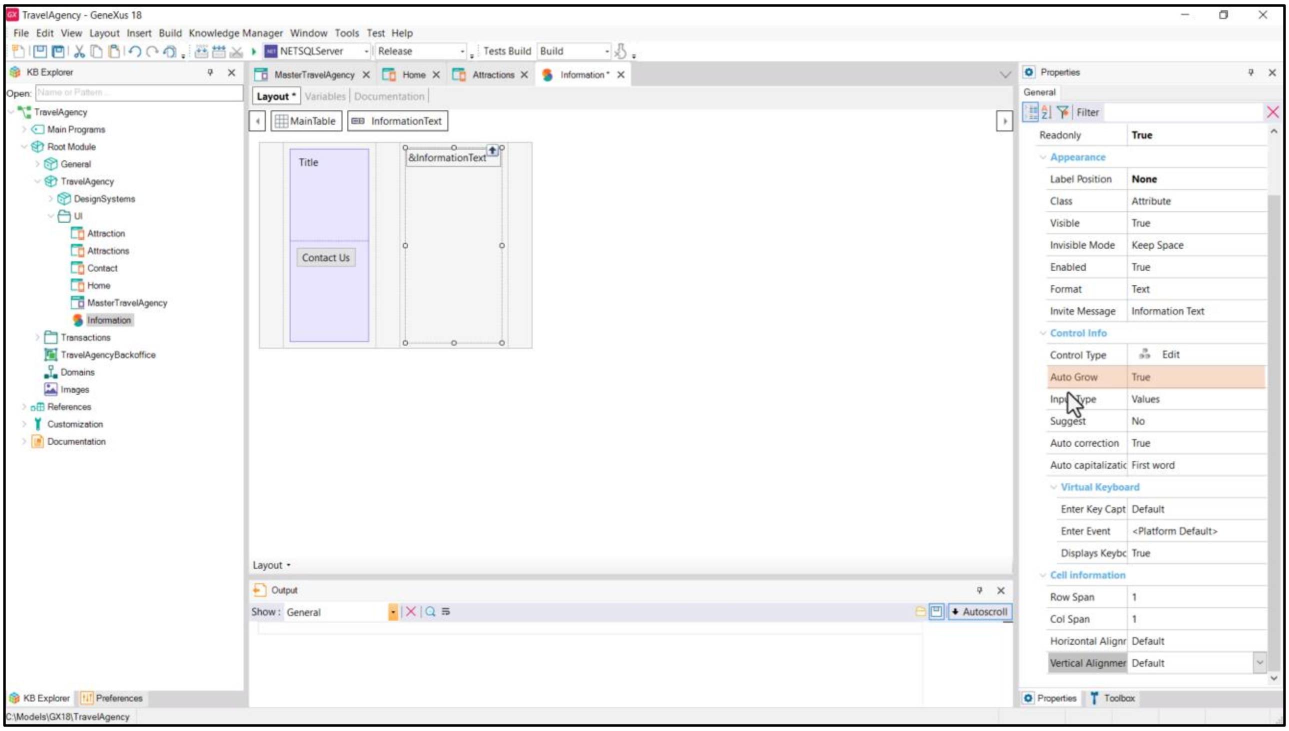
Layout
Width 532px
Height 712px

Content
At Travel Agency, we have consultants v

Typography
Name Paragraph
Font Heebo
Weight 400
Size 16px
Line height 29px

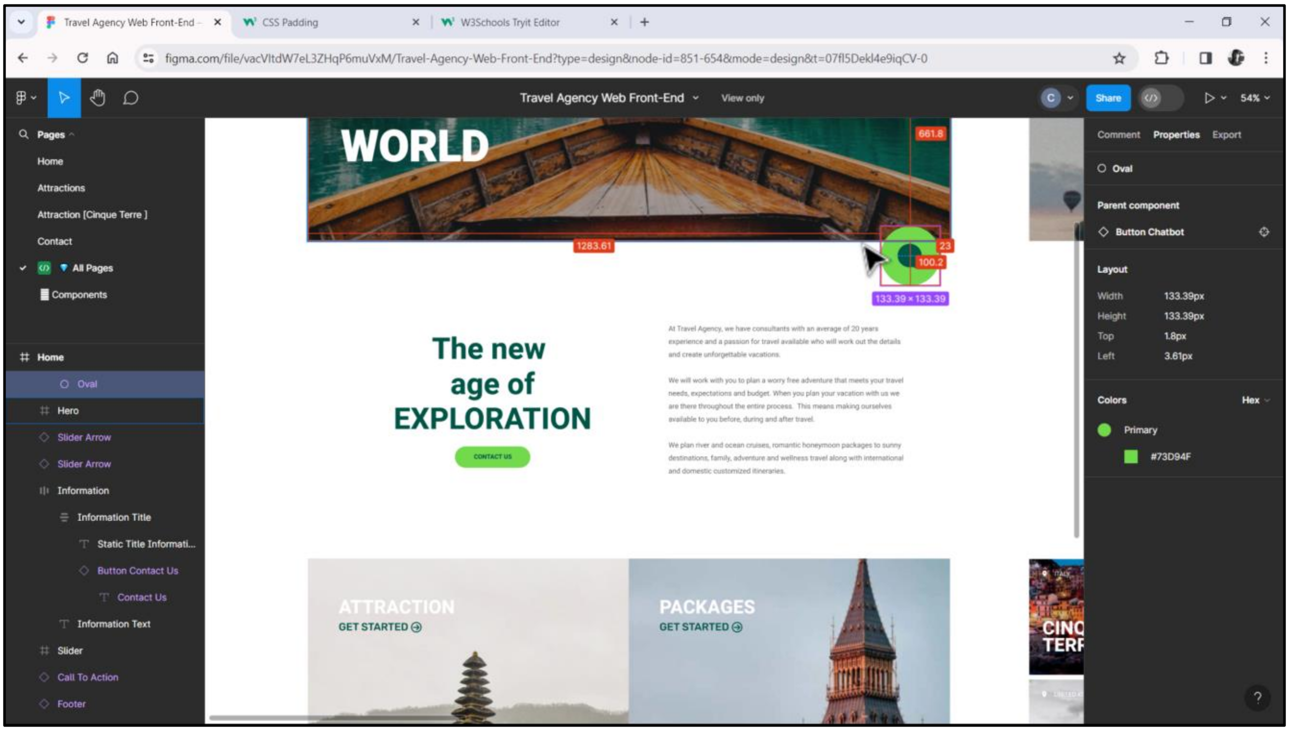
Colors Hex
Neutral/Gray 600
#616161

Similarly, if the browser border became smaller, as the width of the column would be reduced, the text length would also be increased, and the same could happen. It could even become larger than the height of the table. In the latter case, it would be possible to take the default action in the web world, and that is to allow the element and container to expand to fit all the text.



Readonly	True
Appearance	
Label Position	None
Class	Attribute
Visible	True
Invisible Mode	Keep Space
Enabled	True
Format	Text
Invite Message	Information Text
Control Info	
Control Type	Edit
Auto Grow	True
Input Type	Values
Suggest	No
Auto correction	True
Auto capitalizatic	First word
Virtual Keyboard	
Enter Key Capt	Default
Enter Event	<Platform Default>
Displays Keybc	True
Cell information	
Row Span	1
Col Span	1
Horizontal Alignr	Default
Vertical Alignmer	Default

That's why I left the Auto Grow property set to True, both for the variable and for the table containing it (because if the table doesn't have Auto Grow set to True, the value of the Auto Grow property will not be taken into account for the elements in that table). Since we are already here we will vertically align the variable in the middle.



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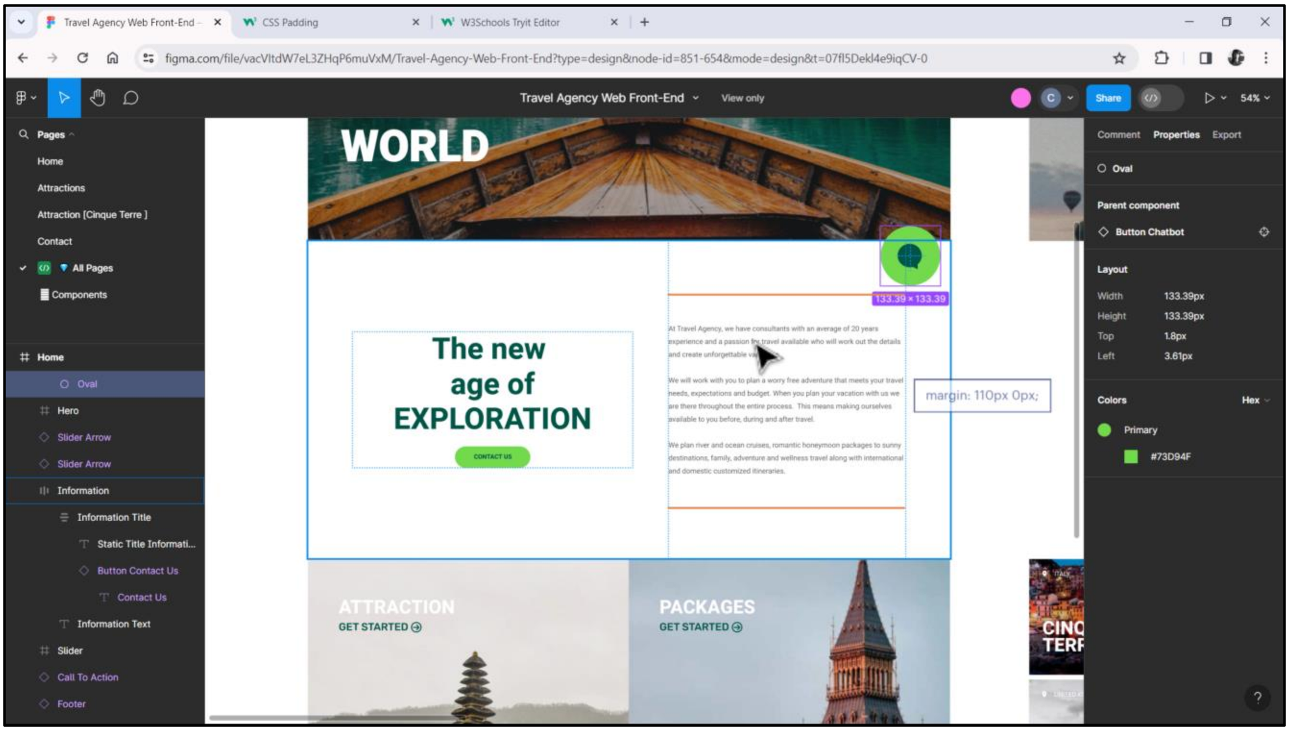
Width 133.39px
Height 133.39px
Top 1.8px
Left 3.61px

Primary 🟩 #73D94F

OK, if we leave it like this, we can’t be sure that in any situation there will be a space above and below.
What I would do would be to talk to Chechu and ask her what she thinks about it, since that is not modeled in her design. In fact, if we look at the container we started from it has 0 padding at the top and bottom, and we can see here clearly that this element is expanding to the edges. Surely we will not want the text to expand beyond the bottom edge of this chatbot image. We see its length of 133.39 and if we compare the distance to the edge of the Header we see those 100.2 pixels, so it would not be unreasonable to propose a spacing of 110 top and 110 bottom so that they are symmetrical.



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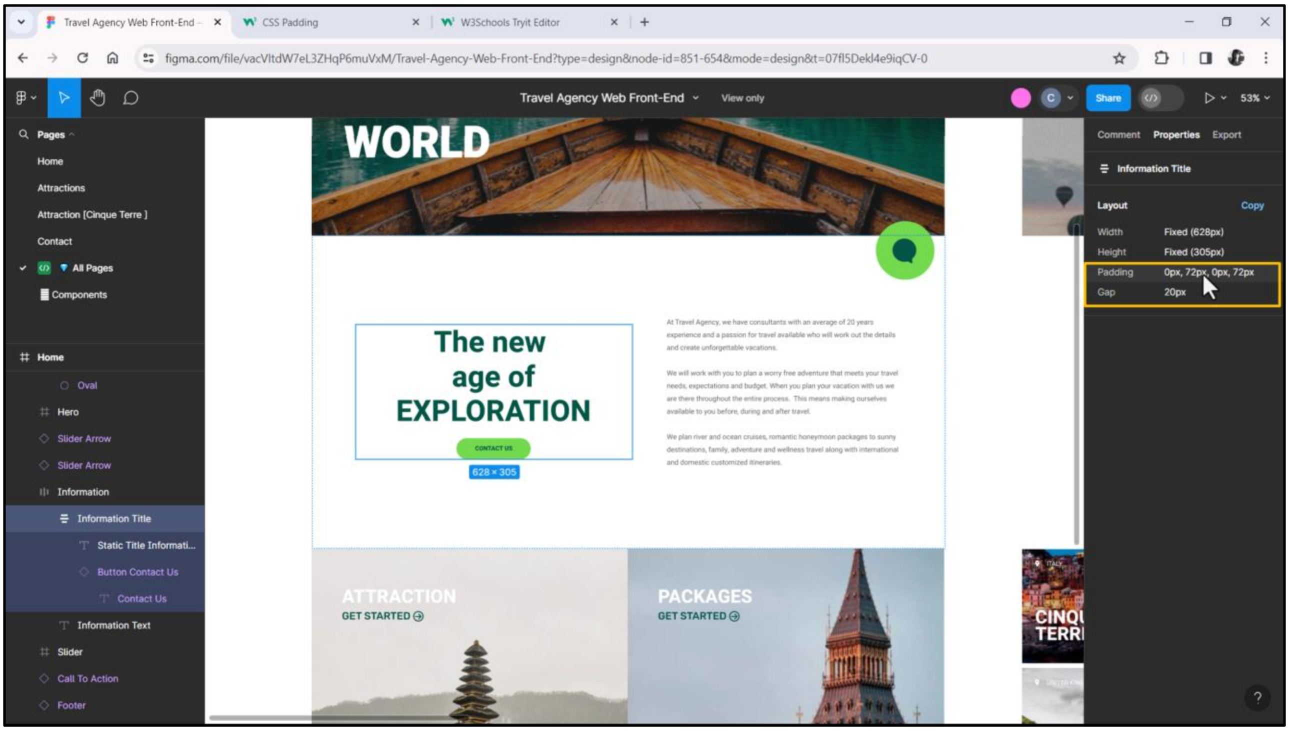
Width 133.39px
Height 133.39px
Top 1.8px
Left 3.61px

#73D94F

This, of course, can be done in the same way that we did for the columns, that is to say, adding two empty rows, one above and one below. But we have another alternative, among several, which will be to give a top and bottom margin to this element, and we will leave it for later, when we go through the Design System Object.



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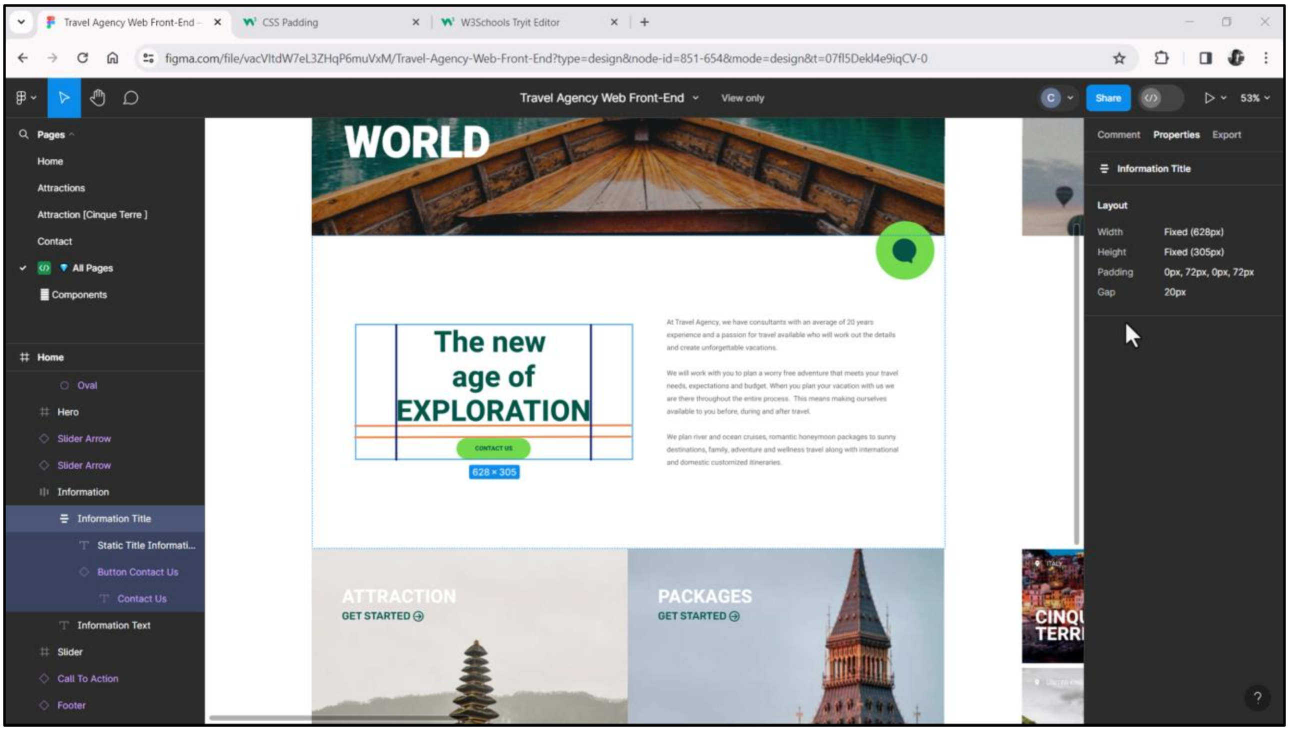
Width Fixed (628px)
Height Fixed (305px)
Padding 0px, 72px, 0px, 72px
Gap 20px

Now, let's analyze the container on the left. This one is very similar to the previous one, only that here, instead of being ordered in this horizontal line the elements are arranged vertically: the text above and the button below. And here we see the padding in this way: 72 pixels on the right, and 72 pixels on the left. And 0 from top and bottom. And what is the space that separates one element from the another? These 20 pixels indicated here.



Width	Fixed (628px)
Height	Fixed (305px)
Padding	0px, 72px, 0px, 72px
Gap	20px

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So with this perspective I could think of adding an empty row in between, and two empty columns on the sides.

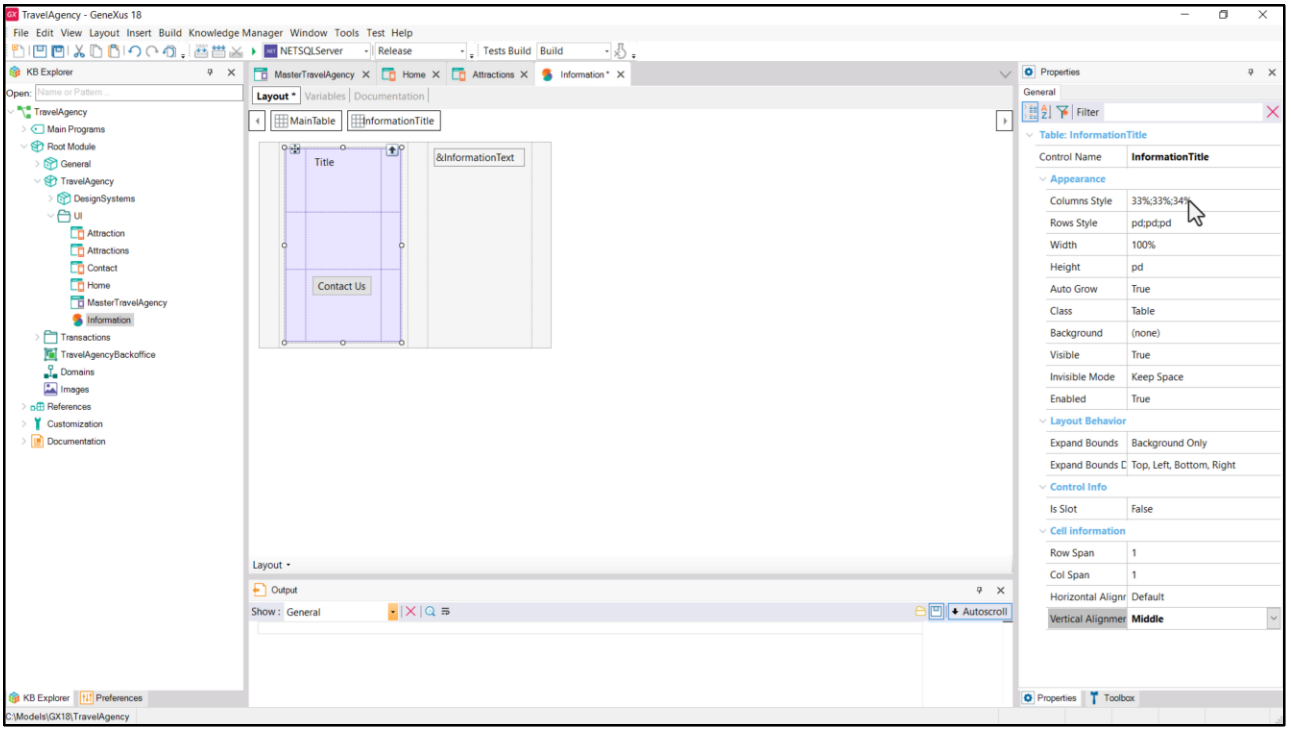
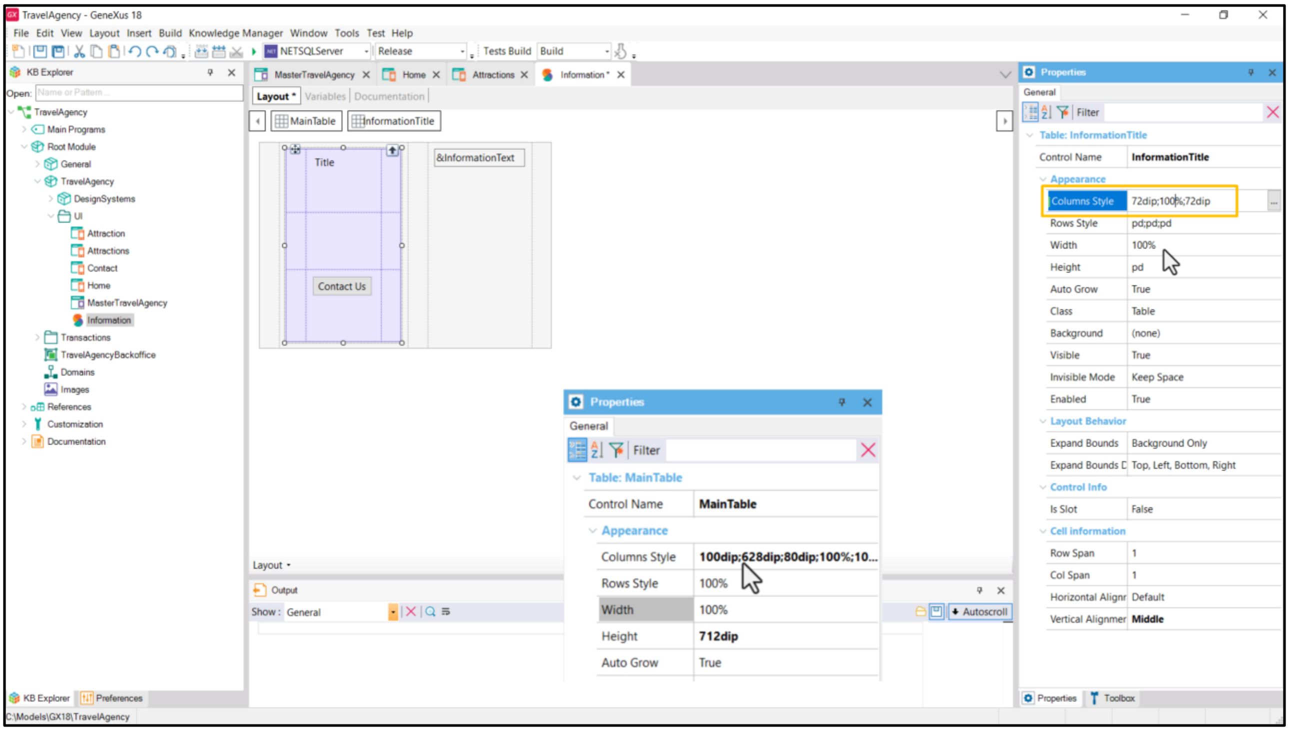


Table: InformationTitle

Control Name	InformationTitle
Appearance	
Columns Style	33%;33%;34%
Rows Style	pd;pd;pd
Width	100%
Height	pd
Auto Grow	True
Class	Table
Background	(none)
Visible	True
Invisible Mode	Keep Space
Enabled	True
Layout Behavior	
Expand Bounds	Background Only
Expand Bounds D	Top, Left, Bottom, Right
Control Info	
Is Slot	False
Cell information	
Row Span	1
Col Span	1
Horizontal Alignr	Default
Vertical Alignmer	Middle

By doing this, we see that the properties were updated, and now the columns have taken these values in percentages, to be equally distributed, which is like the default.



Properties — General — Filter

Table: InformationTitle

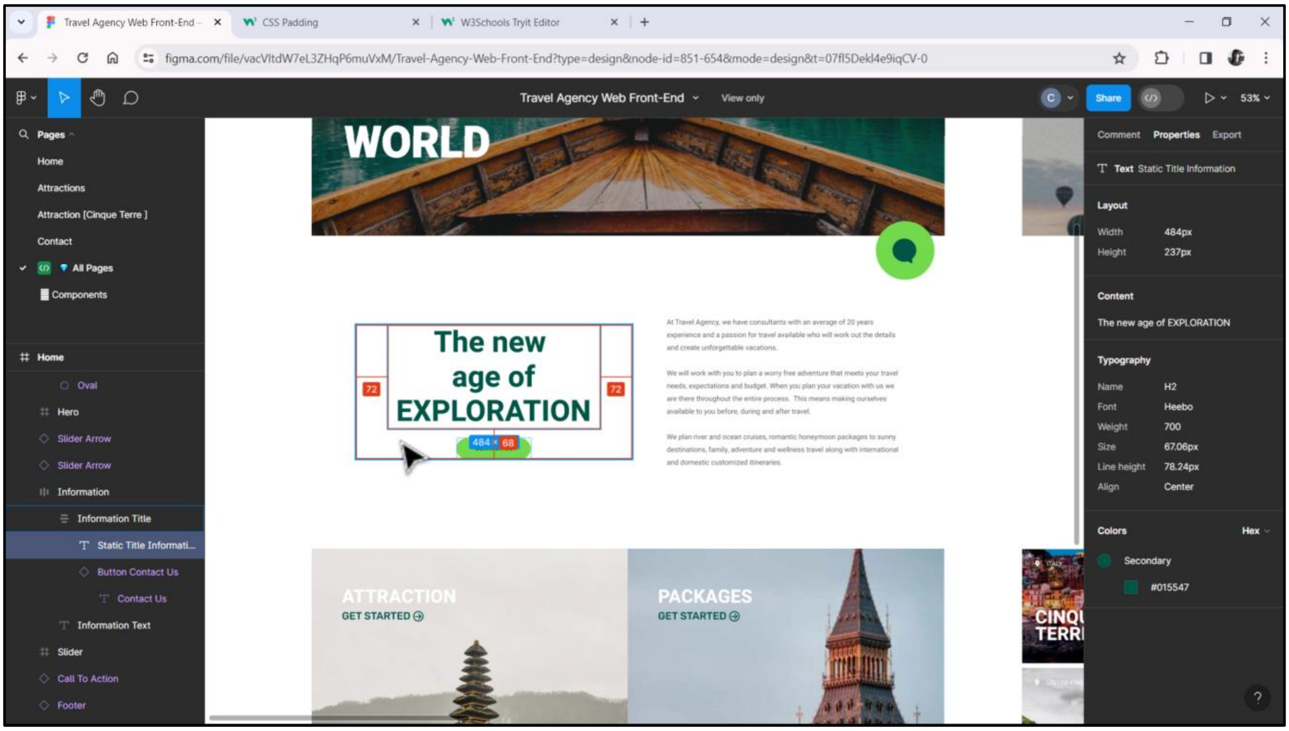
Control Name	InformationTitle
Appearance	
Columns Style	72dip;100%;72dip
Rows Style	pd;pd;pd
Width	100%
Height	pd
Auto Grow	True
Class	Table
Background	(none)
Visible	True
Invisible Mode	Keep Space
Enabled	True
Layout Behavior	
Expand Bounds	Background Only
Expand Bounds D	Top, Left, Bottom, Right
Control Info	
Is Slot	False
Cell information	
Row Span	1
Col Span	1
Horizontal Alignr	Default
Vertical Alignmer	Middle

Properties — General — Filter

Table: MainTable

Control Name	MainTable
Appearance	
Columns Style	100dip;628dip;80dip;100%;10...
Rows Style	100%
Width	100%
Height	712dip
Auto Grow	True

So, we're going to set 72 dips in the left one and 72 dips in the right one. And what about the one in the middle? I'm going to set 100%... of the Width of the table that will correspond to the width of the cell, of the column in this case, in which the table is located. It is the second column, so it will correspond to these 628 dips. Therefore, the width that the second column will take will be the one resulting from subtracting the values of the two columns on the left and right from these 628 dips.



The new age of EXPLORATION

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Text Static Title Information

Layout

Width 484px

Height 237px

Content

The new age of EXPLORATION

Typography

Name H2

Font Heebo

Weight 700

Size 67.06px

Line height 78.24px

Align Center

Colors Hex

Secondary

#015547

And we see this clearly here in Figma... 628... 72, 72, and what will be left of the width of that column will be 484.

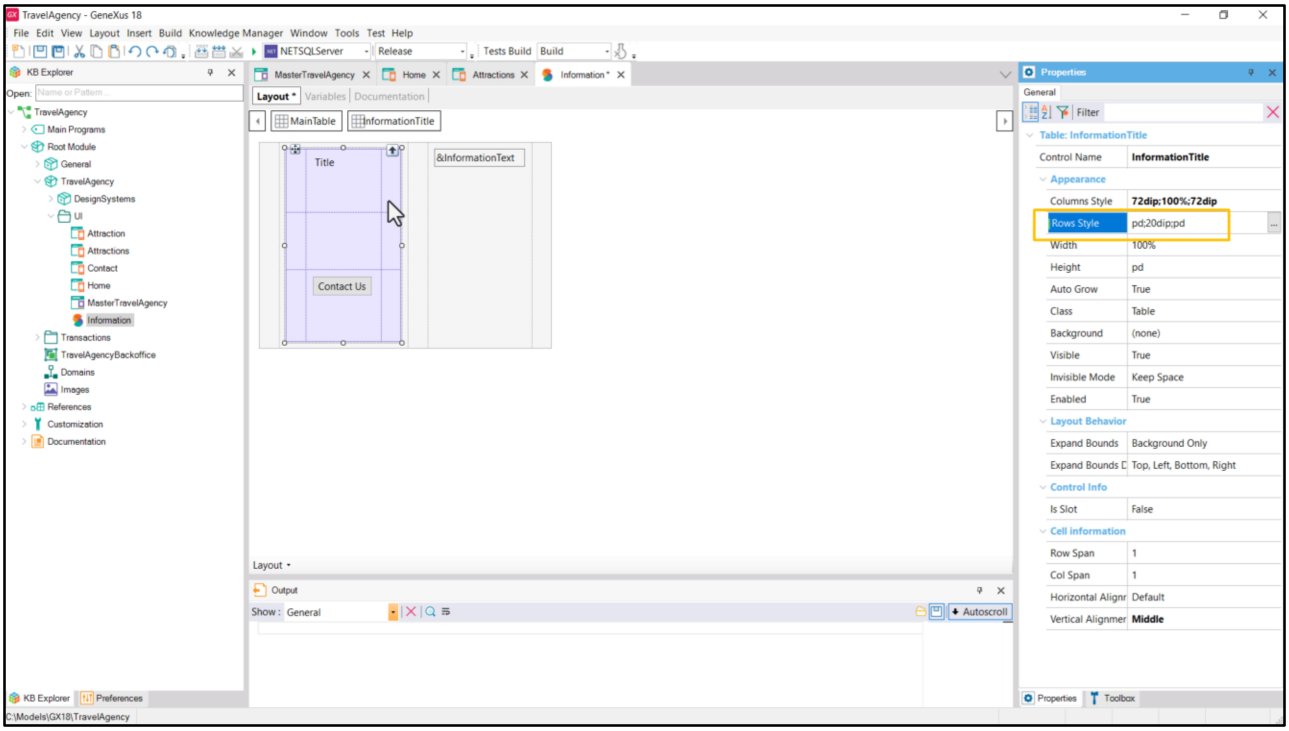
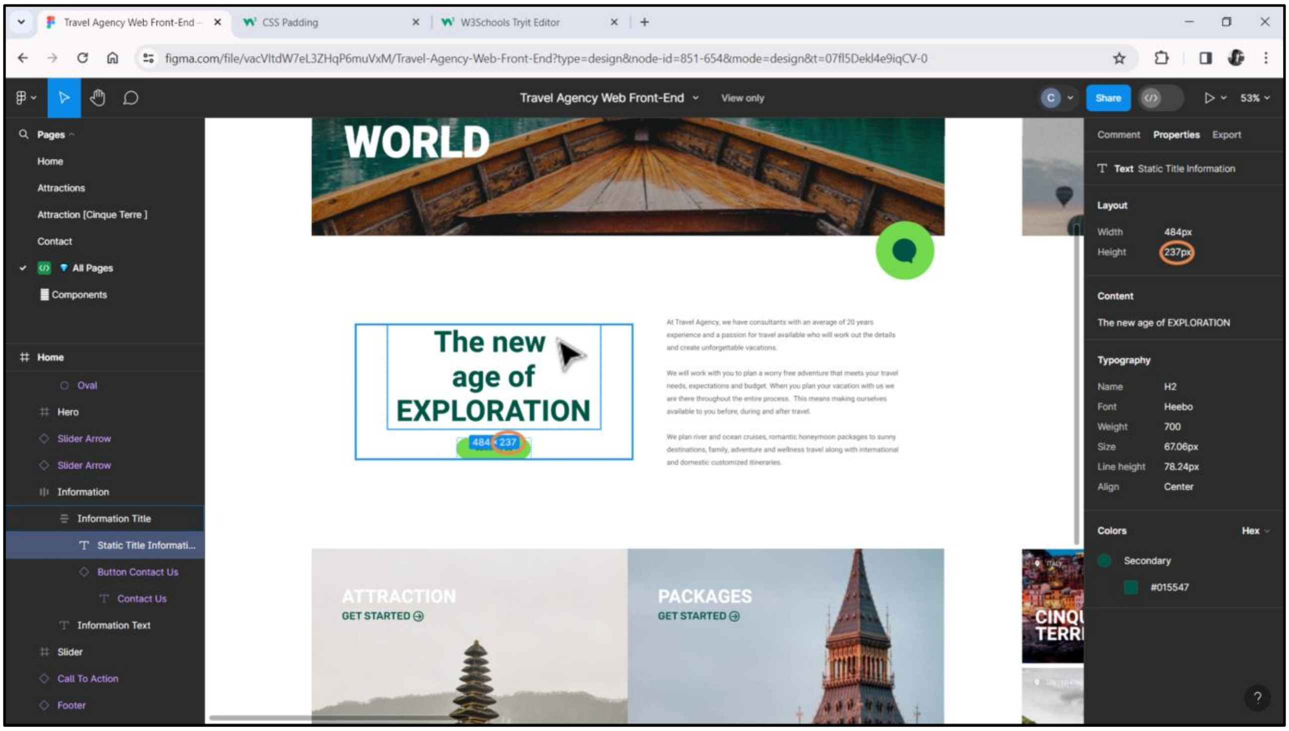


Table: InformationTitle

Control Name	InformationTitle
Appearance	
Columns Style	72dip;100%;72dip
Rows Style	pd;20dip;pd
Width	100%
Height	pd
Auto Grow	True
Class	Table
Background	(none)
Visible	True
Invisible Mode	Keep Space
Enabled	True
Layout Behavior	
Expand Bounds	Background Only
Expand Bounds D	Top, Left, Bottom, Right
Control Info	
Is Slot	False
Cell information	
Row Span	1
Col Span	1
Horizontal Alignr	Default
Vertical Alignmer	Middle

Well, what about the height of the rows? We know that the middle one is a spacing row, which is going to be 20 dips. Now we need to see what would be the height of the row... of the first one... and what would be the height of the row that will contain the button.



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Text Static Title Information

Layout

Width	484px
Height	237px

Content

The new age of EXPLORATION

Typography

Name	H2
Font	Heebo
Weight	700
Size	67.06px
Line height	78.24px
Align	Center

Colors Hex

Secondary

#015547

Well, the one of the text, as we see here, is going to be 234 pixels, and the one of the button is going to be 48.

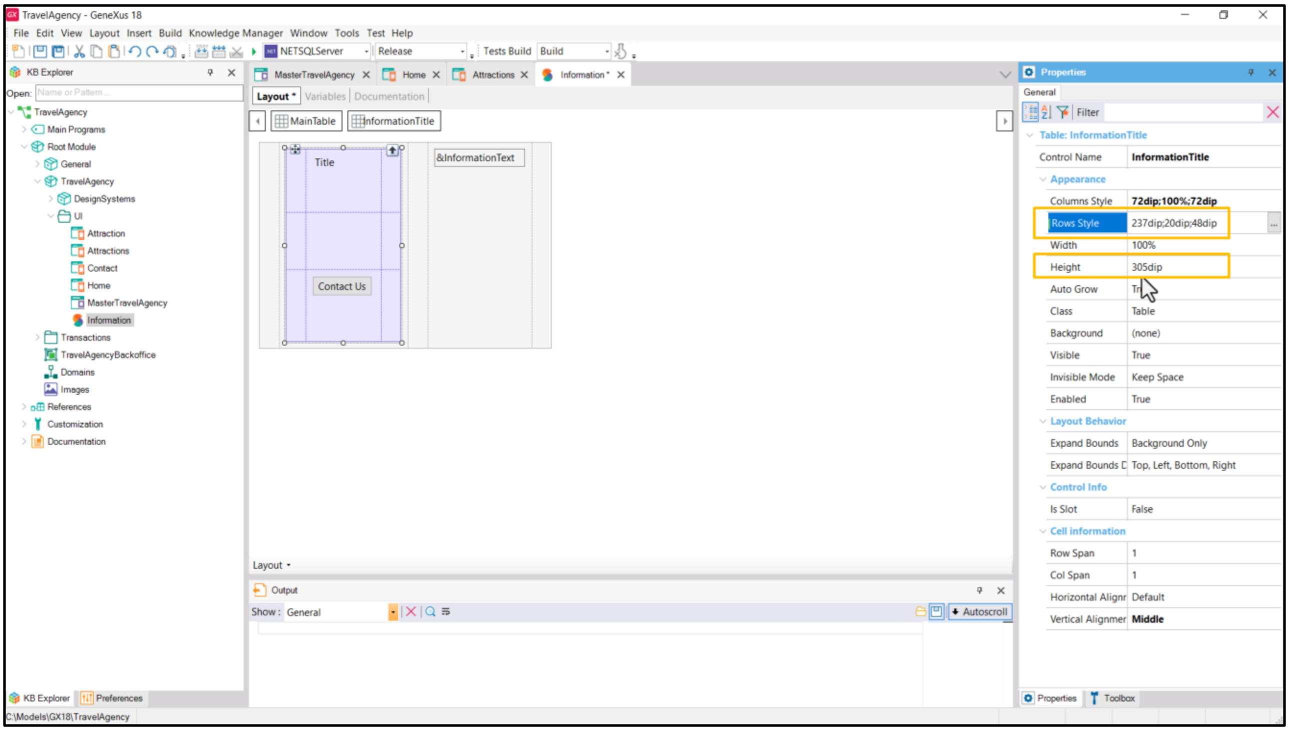
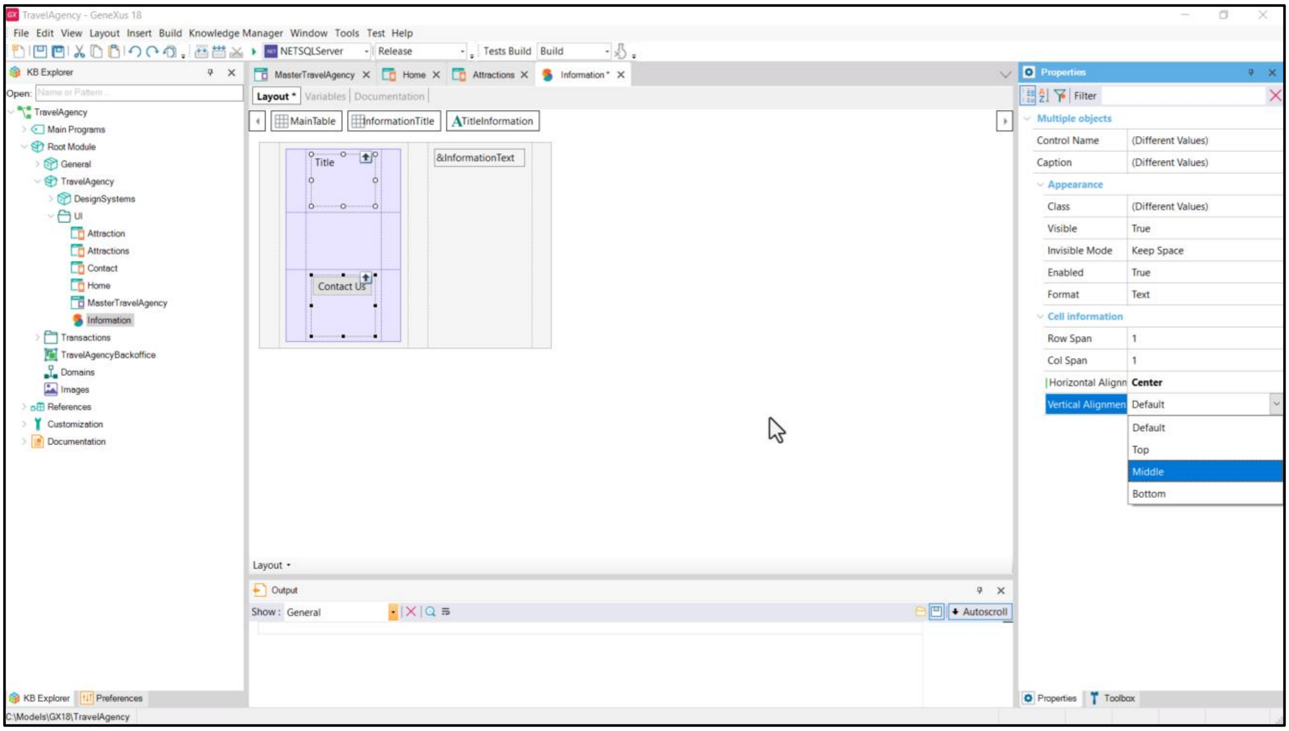


Table: InformationTitle

Control Name	InformationTitle
Appearance	
Columns Style	72dip;100%;72dip
Rows Style	237dip;20dip;48dip
Width	100%
Height	305dip
Auto Grow	Tr
Class	Table
Background	(none)
Visible	True
Invisible Mode	Keep Space
Enabled	True
Layout Behavior	
Expand Bounds	Background Only
Expand Bounds D	Top, Left, Bottom, Right
Control Info	
Is Slot	False
Cell information	
Row Span	1
Col Span	1
Horizontal Alignr	Default
Vertical Alignmer	Middle

So… 237... note how having done this, as all the rows are of fixed width, it automatically modified the Height property adding those values.



Control Name	(Different Values)
Caption	(Different Values)
Class	(Different Values)
Visible	True
Invisible Mode	Keep Space
Enabled	True
Format	Text
Row Span	1
Col Span	1
Horizontal Alignn	Center
Vertical Alignmen	Default

Now before I go any further I'm going to center these two elements... I will center them horizontally and also center them vertically.

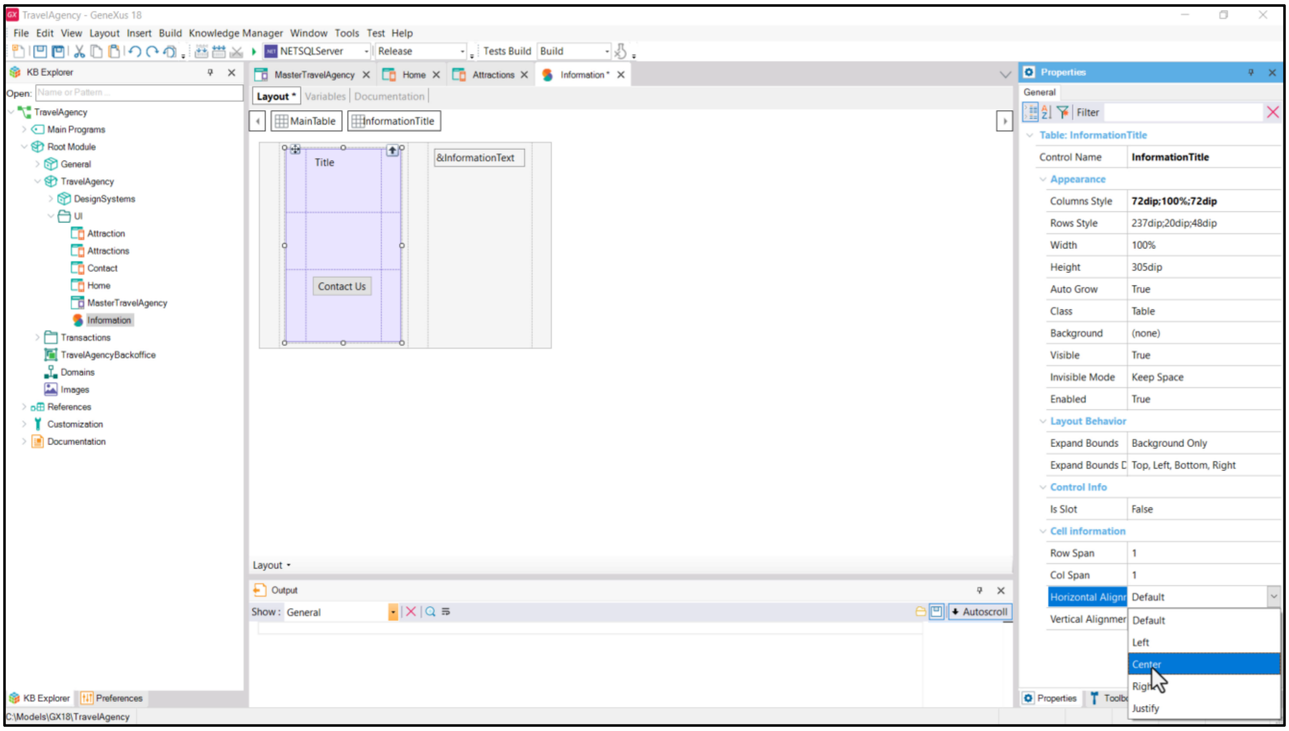
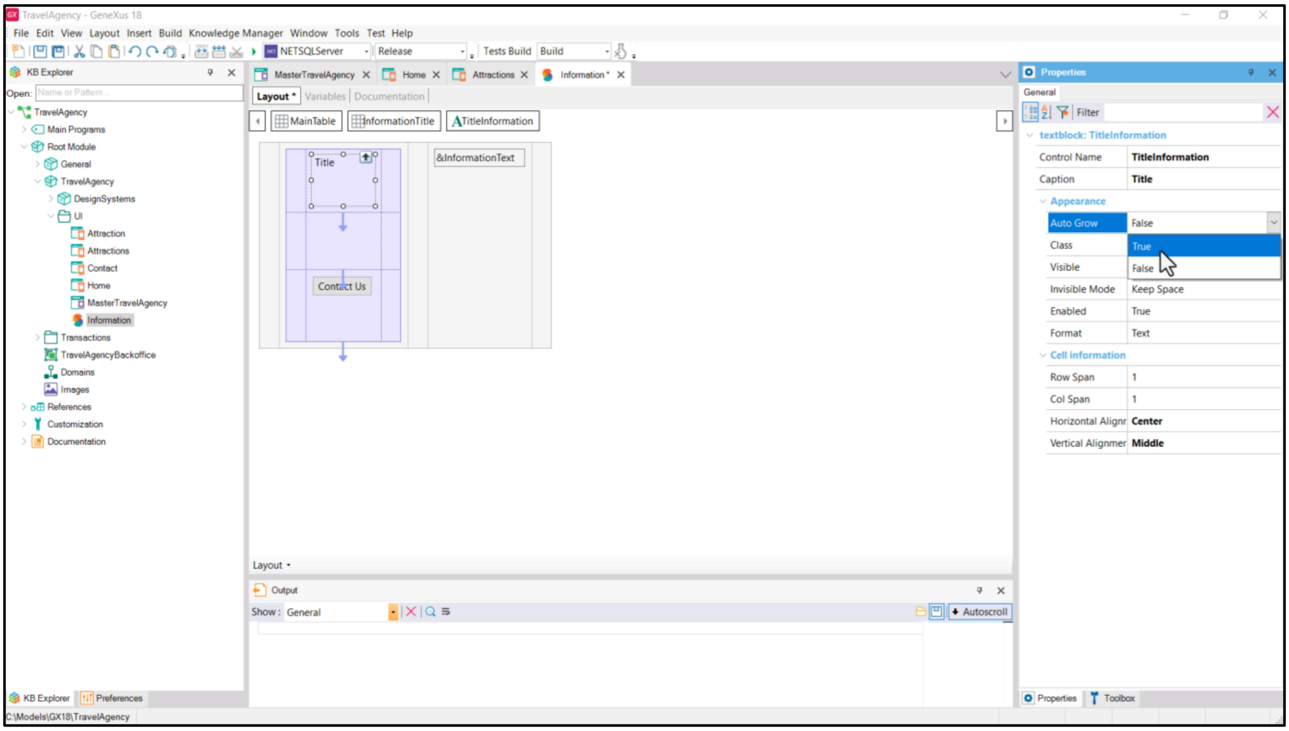


Table: InformationTitle

Control Name	InformationTitle
Appearance	
Columns Style	72dip;100%;72dip
Rows Style	237dip;20dip;48dip
Width	100%
Height	305dip
Auto Grow	True
Class	Table
Background	(none)
Visible	True
Invisible Mode	Keep Space
Enabled	True
Layout Behavior	
Expand Bounds	Background Only
Expand Bounds D	Top, Left, Bottom, Right
Control Info	
Is Slot	False
Cell information	
Row Span	1
Col Span	1
Horizontal Alignr	Default
Vertical Alignmer	

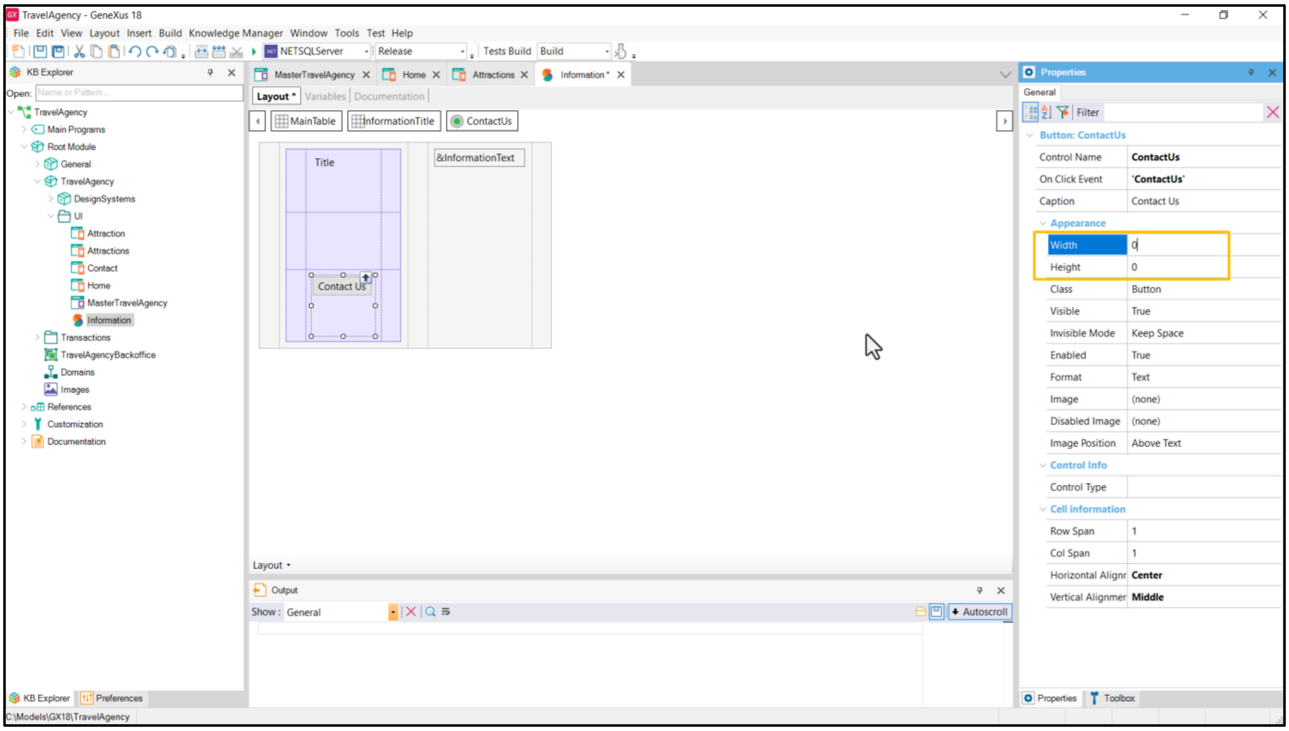
I'm going to do the same for the table, although it's not necessary in this case... I'm going to center it horizontally. Why isn't it necessary? Because it's going to take up the full size of the cell and I'm centering everything inside.



textblock: TitleInformation

Control Name	TitleInformation
Caption	Title
Appearance	
Auto Grow	False
Class	True
Visible	False
Invisible Mode	Keep Space
Enabled	True
Format	Text
Cell information	
Row Span	1
Col Span	1
Horizontal Alignr	Center
Vertical Alignmer	Middle

Well, with what we did, we know that how far it will go depends on the content of the TextBlock Caption. If the number of characters makes its width smaller than the width of the column, it will be equidistant from the sides, since we centered it (and also from the top and bottom). If it has more characters, the text will be wrapped so as not to overflow and will have more than one line. And what would happen if the height of the cell is not enough? As we can see, in this case the TextBlock has False as default for Auto Grow, because it is the default for native platforms, so it will be truncated. If we want the row to be pushed down, and therefore the other two rows as well in the case it overflows the height, then we change it to True, which is usually the expected behavior on the Web.

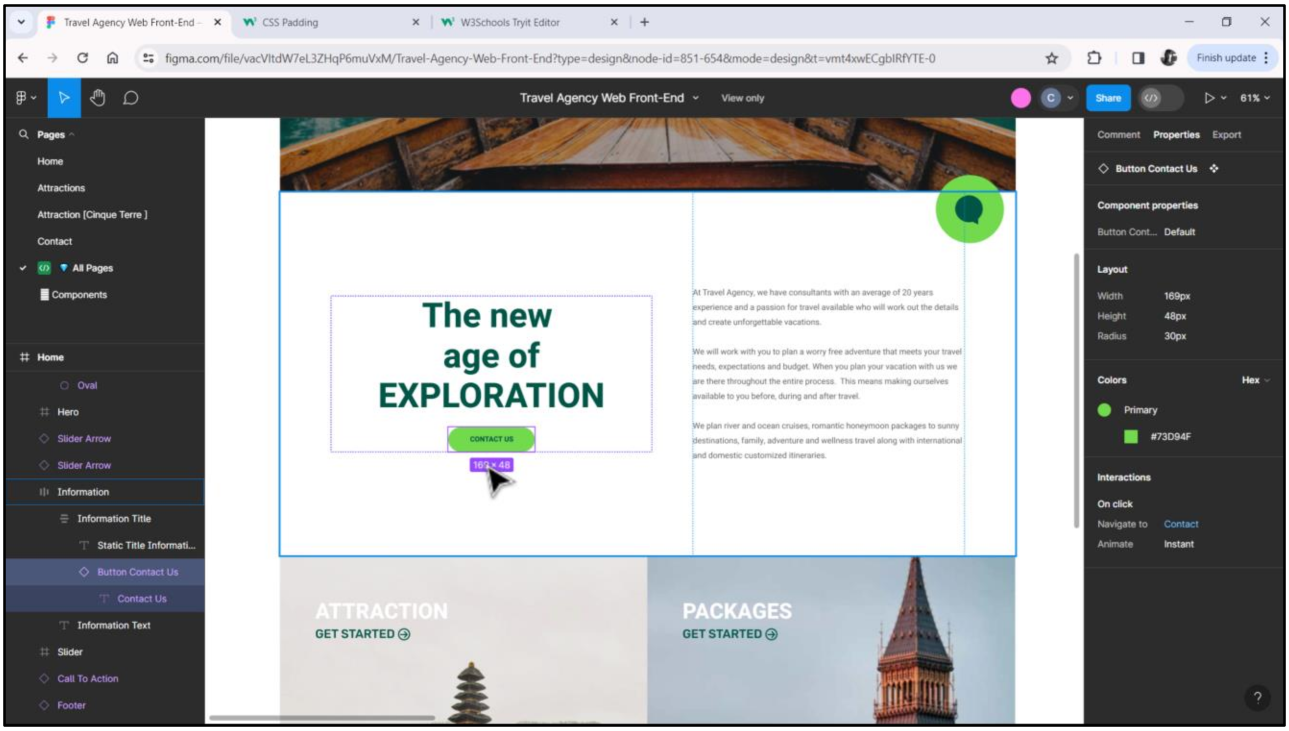


Button: ContactUs

Control Name	ContactUs
On Click Event	'ContactUs'
Caption	Contact Us
Appearance	
Width	0
Height	0
Class	Button
Visible	True
Invisible Mode	Keep Space
Enabled	True
Format	Text
Image	(none)
Disabled Image	(none)
Image Position	Above Text
Control Info	
Control Type	
Cell information	
Row Span	1
Col Span	1
Horizontal Alignr	Center
Vertical Alignmer	Middle

What about the button? By default it will expand to fill all the space in the container (although it may seem a little counter-intuitive that it has these zeros instead of a more expected 100%).

For the height, that it takes the same space as the height of this cell is perfect, because we indicated that it was 48 dips just because it was the height of the button. But for the width it is not correct.



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Button Cont... Default

Layout

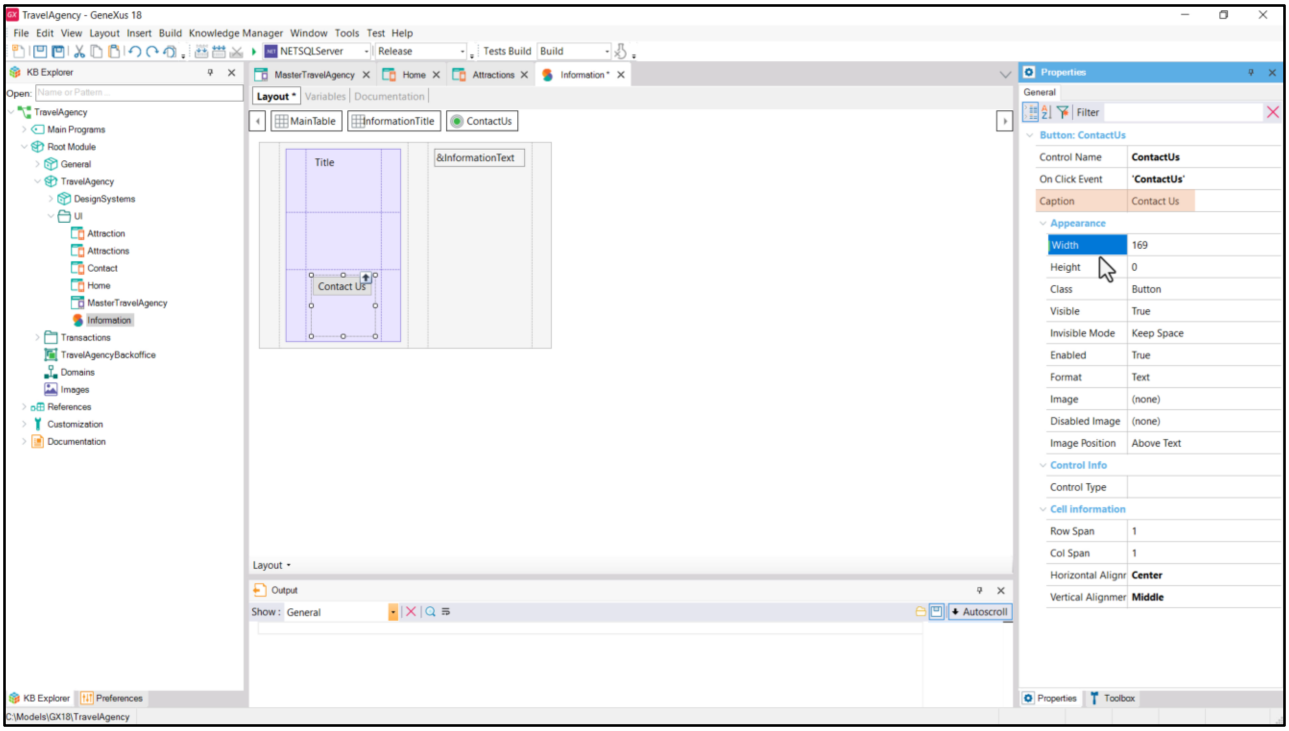
Width 169px

Height 48px

Radius 30px

Navigate to Contact

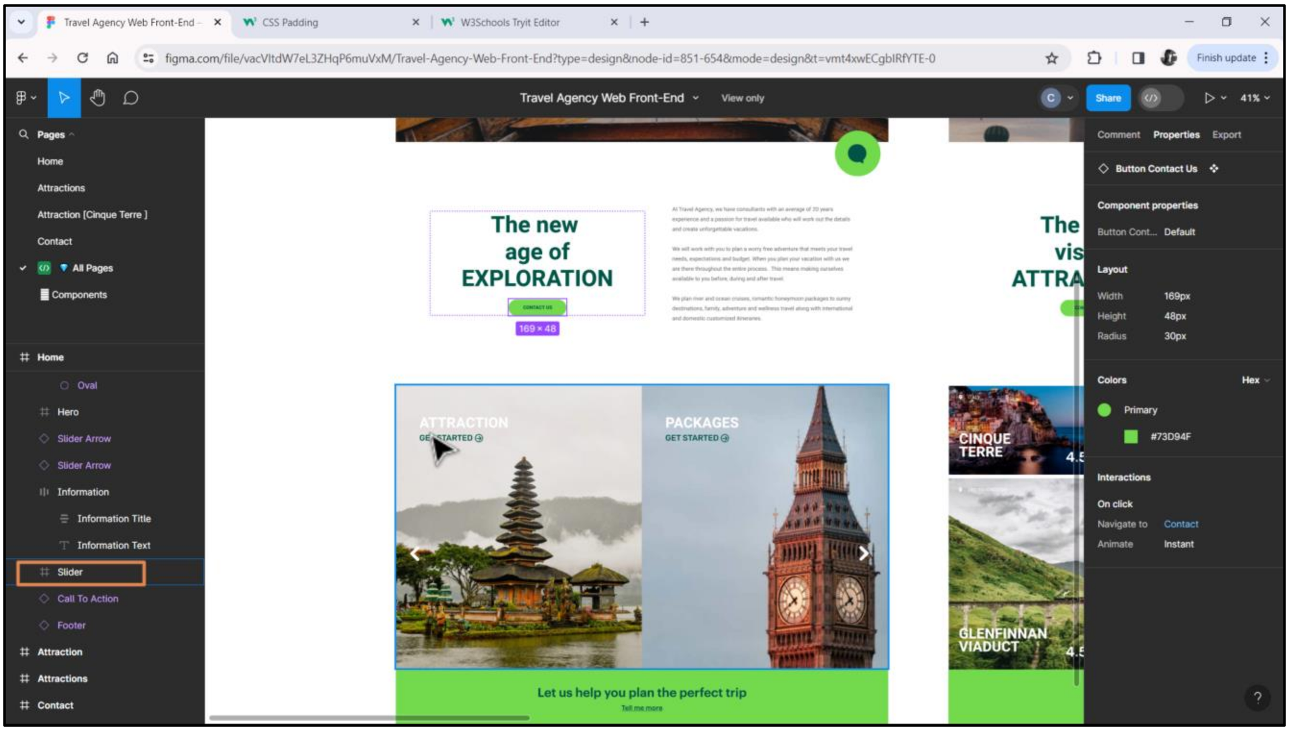
If we go to Figma, the width is smaller, it's 169 pixels.



Button: ContactUs

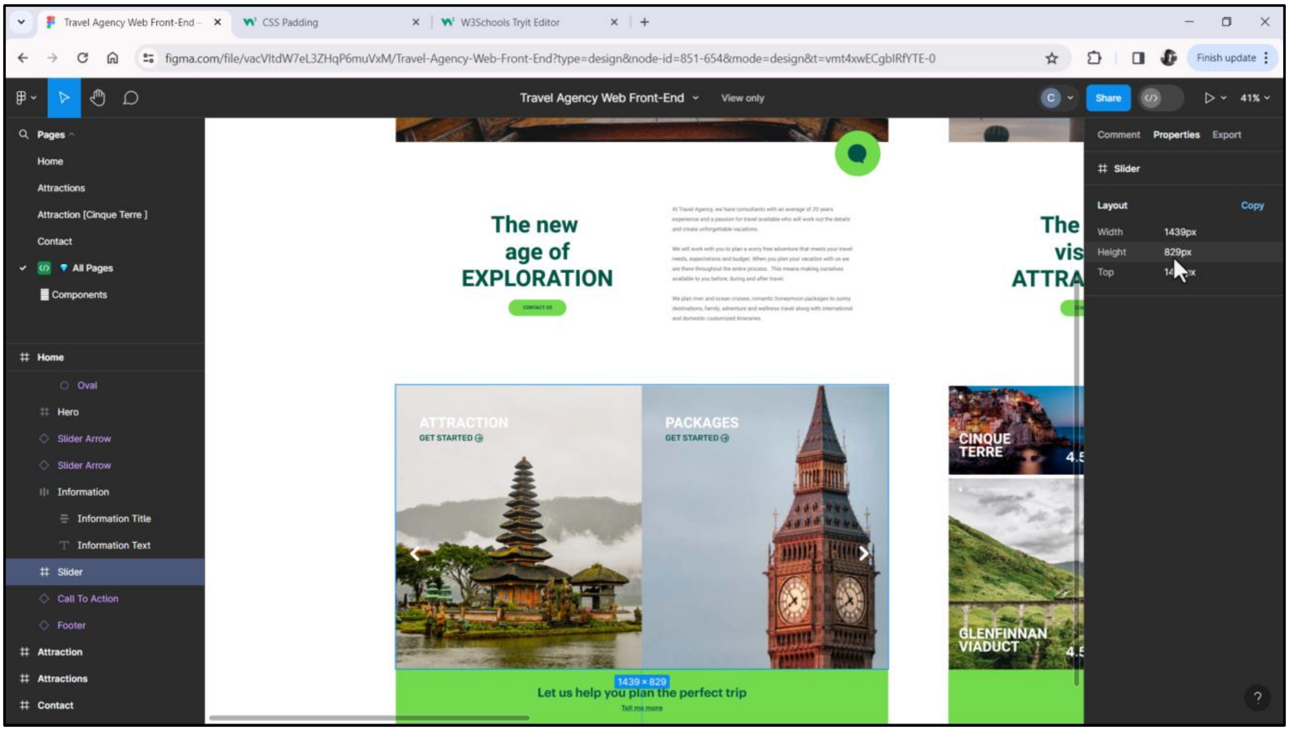
Control Name	ContactUs
On Click Event	'ContactUs'
Caption	Contact Us
Appearance	
Width	169
Height	0
Class	Button
Visible	True
Invisible Mode	Keep Space
Enabled	True
Format	Text
Image	(none)
Disabled Image	(none)
Image Position	Above Text
Control Info	
Control Type	
Cell information	
Row Span	1
Col Span	1
Horizontal Alignr	Center
Vertical Alignmer	Middle

Later we will see that this would be the minimum width, but if the "caption" of the button exceeds this size, the button should expand to the sides, without exceeding the width of the container, of course. But we will see that later, for now we leave it like that.



Before defining the style, I want to see how this looks running. For that I will have to instantiate the Stencil in the Home panel first, and then in the Attractions panel, that for now are empty.

The Home will have this element and this other one, that Chechu called Slider, and is a frame with subelements.



Slider

Layout

Width 1439px

Height 829px

Top 14[illegible]x

Its height will be 829 pixels. That of Information was 712.

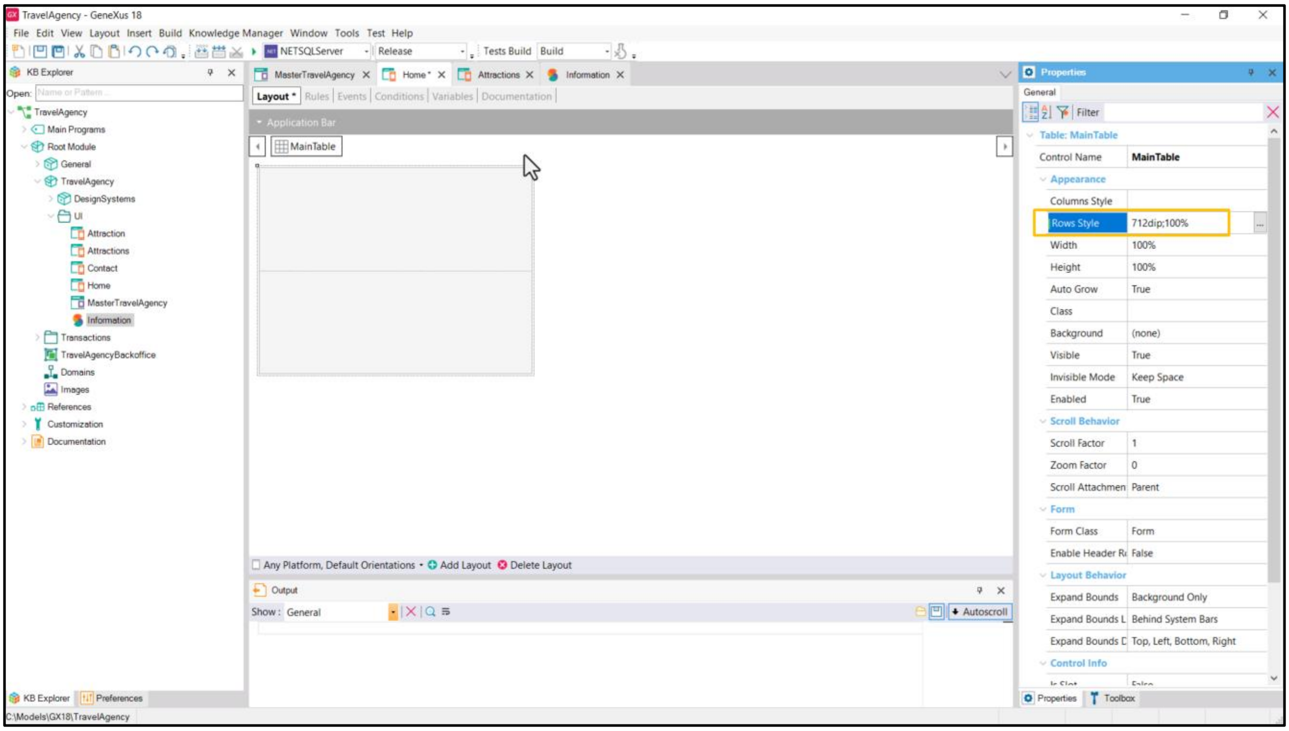
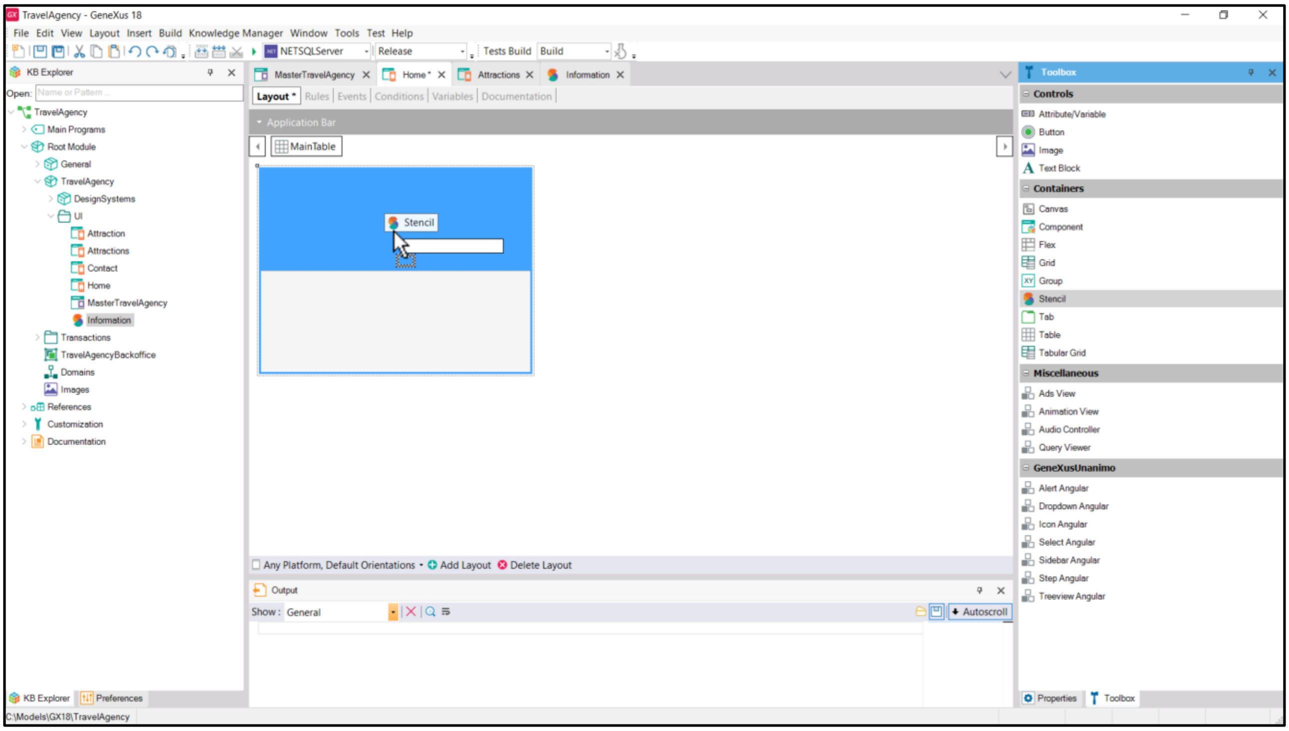
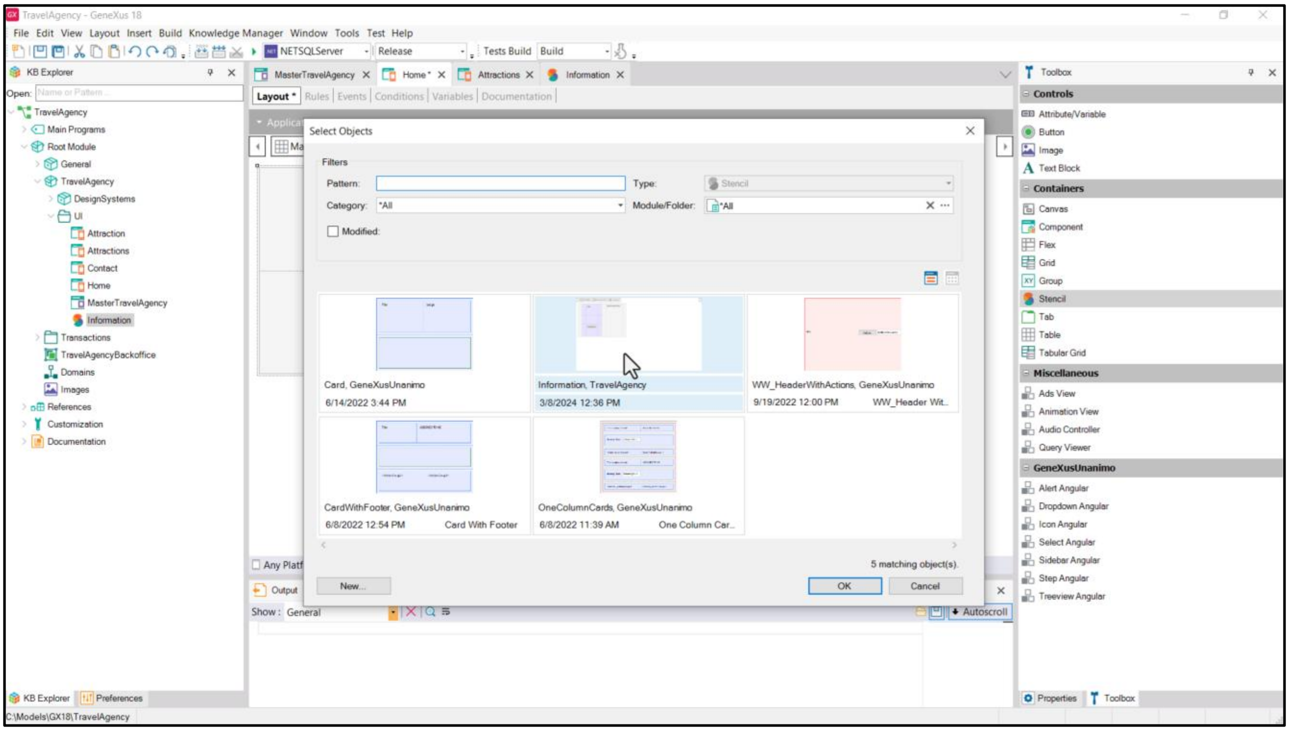


Table: MainTable	
Control Name	MainTable
Appearance	
Columns Style	
Rows Style	712dip;100%
Width	100%
Height	100%
Auto Grow	True
Class	
Background	(none)
Visible	True
Invisible Mode	Keep Space
Enabled	True
Scroll Behavior	
Scroll Factor	1
Zoom Factor	0
Scroll Attachmen	Parent
Form	
Form Class	Form
Enable Header R(	False
Layout Behavior	
Expand Bounds	Background Only
Expand Bounds L	Behind System Bars
Expand Bounds D	Top, Left, Bottom, Right
Control Info	

Then I add a row to the main table... the first of the two rows that it has for now is going to be 712 dips and the second one, which could be 829, I will leave it at 100%. We'll analyze this later. The remaining 100% of, obviously, the height of the Main table.



What I'm going to do next is drag a Stencil control to the first of these rows...



Select Objects

Filters

Pattern:

Type: Stencil

Category: *All

Module/Folder: *All

□ Modified:

Card, GeneXusUnanimo
6/14/2022 3:44 PM

Information, TravelAgency
3/8/2024 12:36 PM

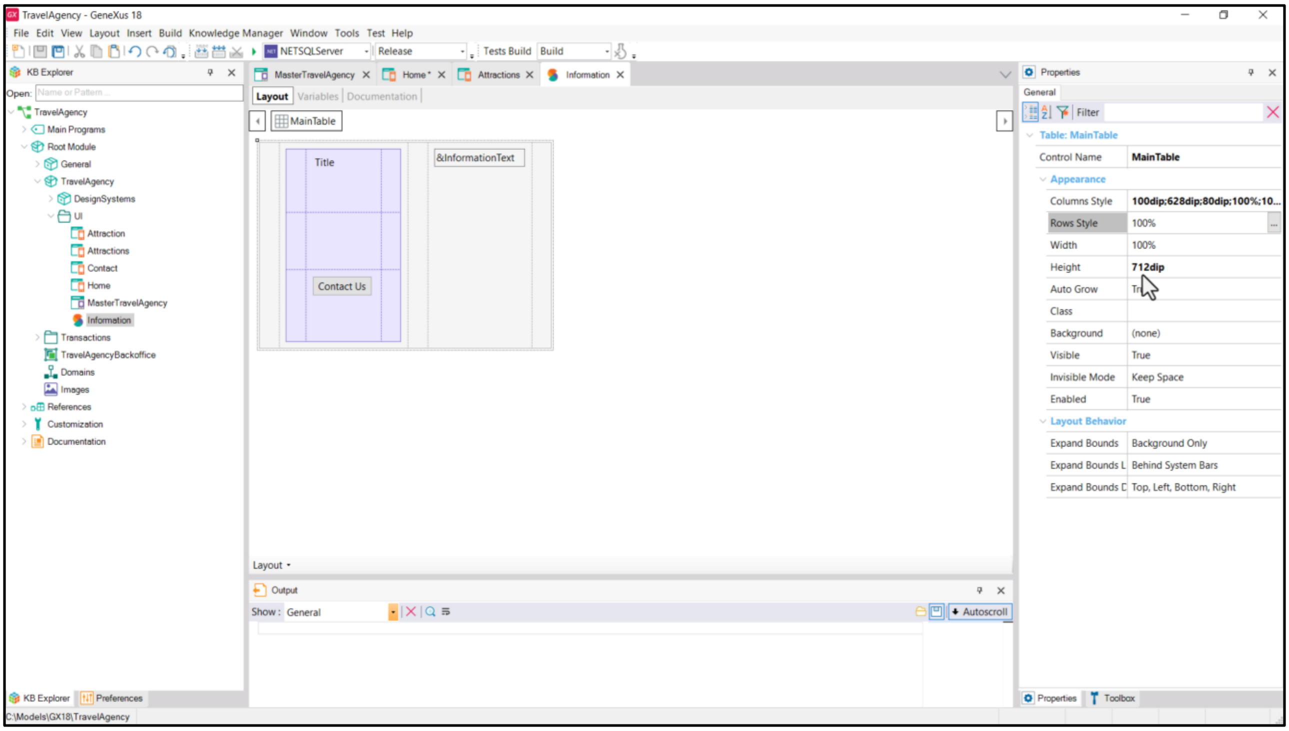
WW_HeaderWithActions, GeneXusUnanimo
9/19/2022 12:00 PM WW_Header Wit...

CardWithFooter, GeneXusUnanimo
6/8/2022 12:54 PM Card With Footer

OneColumnCards, GeneXusUnanimo
6/8/2022 11:39 AM One Column Car...

5 matching object(s).

... and choose ours, Information.



Control Name	MainTable
Columns Style	100dip;628dip;80dip;100%;10...
Rows Style	100%
Width	100%
Height	712dip
Auto Grow	Tr
Class	
Background	(none)
Visible	True
Invisible Mode	Keep Space
Enabled	True
Expand Bounds	Background Only
Expand Bounds L	Behind System Bars
Expand Bounds D	Top, Left, Bottom, Right

If now Chechu warned us that she changed the height from 712 pixels or dips to 800, for example, what would we have to do? We would have to come and change it here...

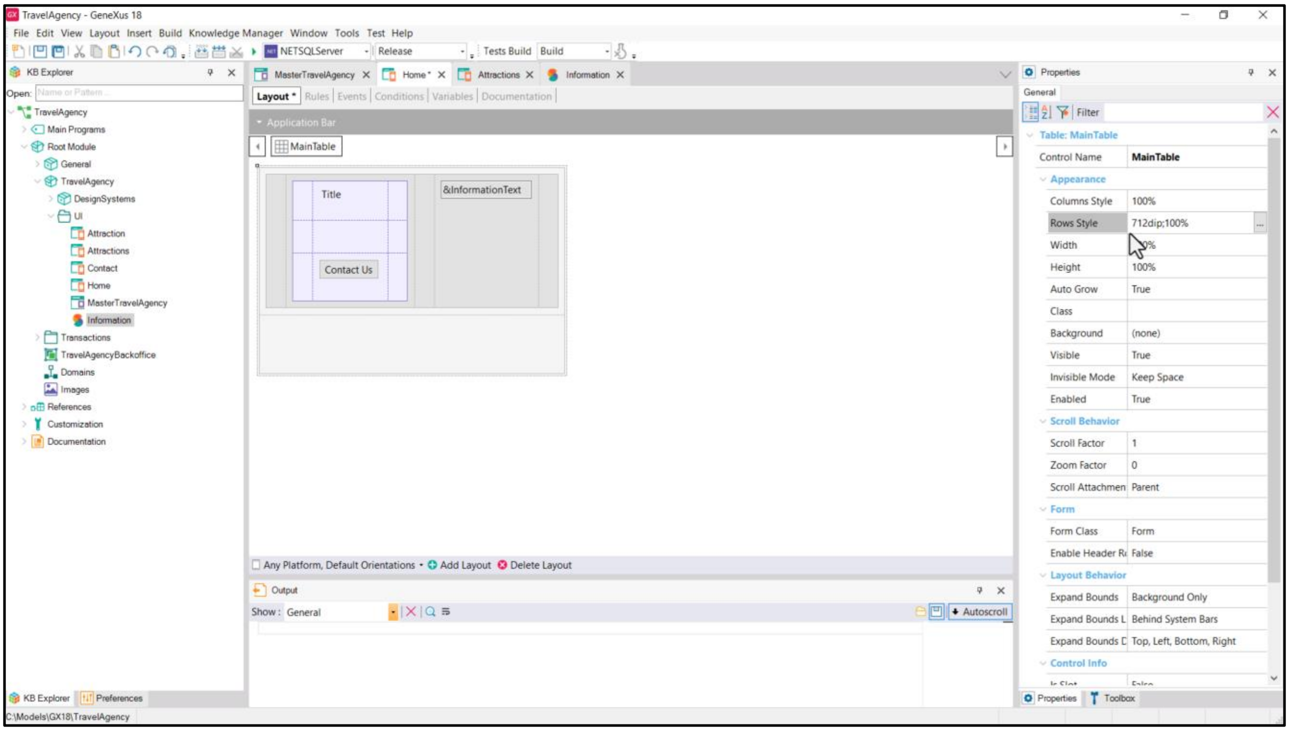
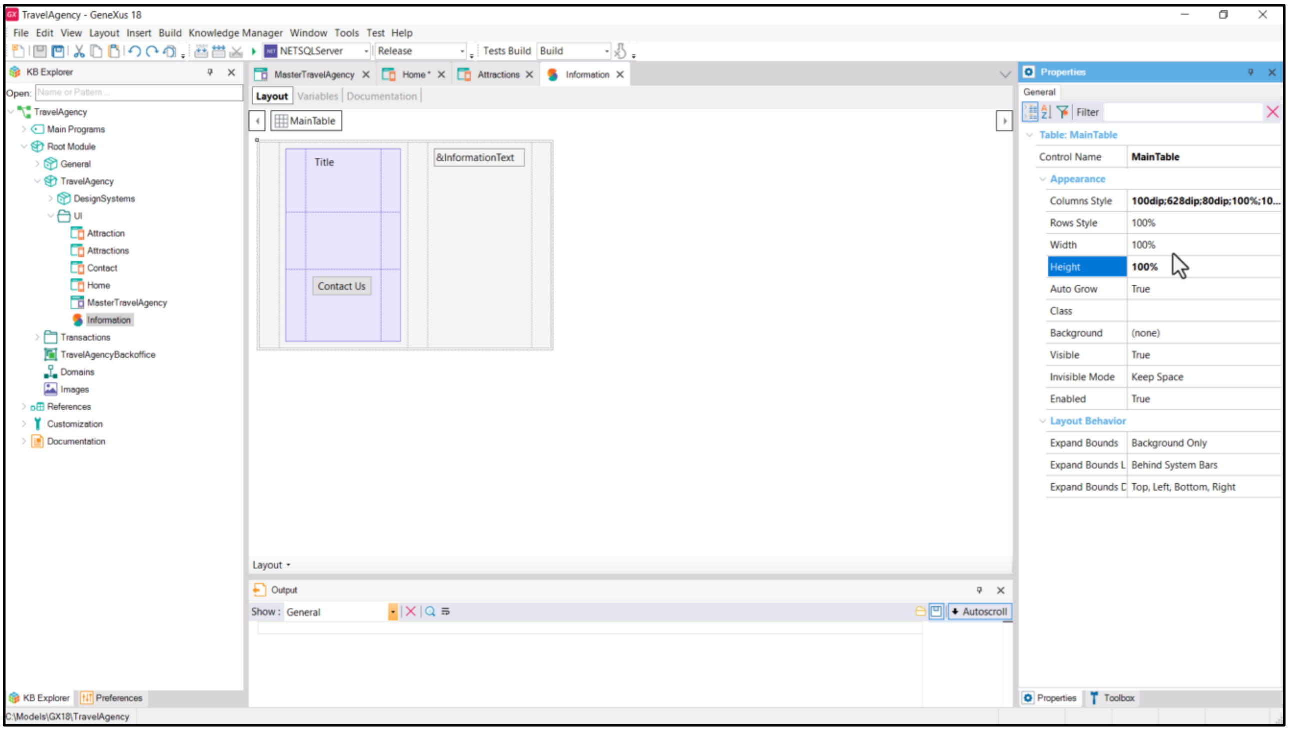


Table: MainTable	
Control Name	MainTable
Appearance	
Columns Style	100%
Rows Style	712dip;100%
Width	[illegible]0%
Height	100%
Auto Grow	True
Class	
Background	(none)
Visible	True
Invisible Mode	Keep Space
Enabled	True
Scroll Behavior	
Scroll Factor	1
Zoom Factor	0
Scroll Attachmen	Parent
Form	
Form Class	Form
Enable Header R	False
Layout Behavior	
Expand Bounds	Background Only
Expand Bounds L	Behind System Bars
Expand Bounds D	Top, Left, Bottom, Right
Control Info	
Is Slot	False

And then come here too, to change it at the level of the row height. And the same if we then place that same Stencil in the attractions panel.



Properties

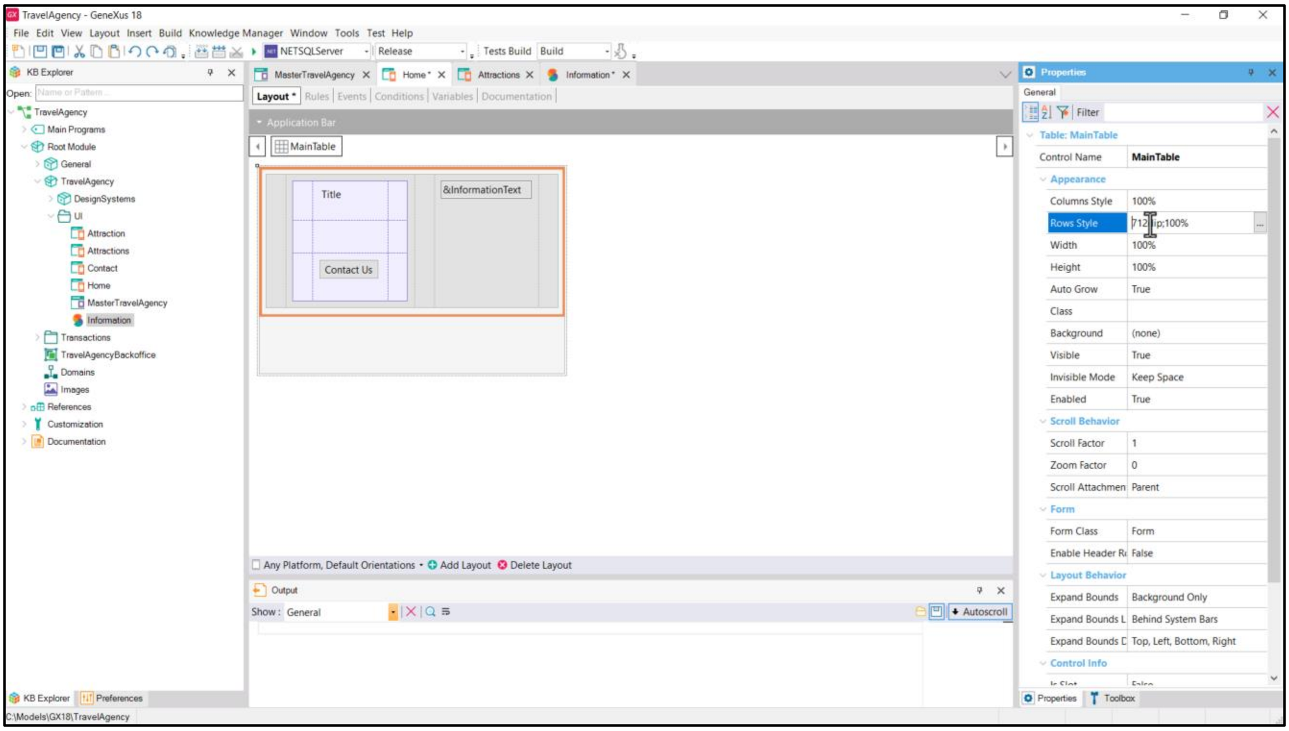
General

Filter

Table: MainTable

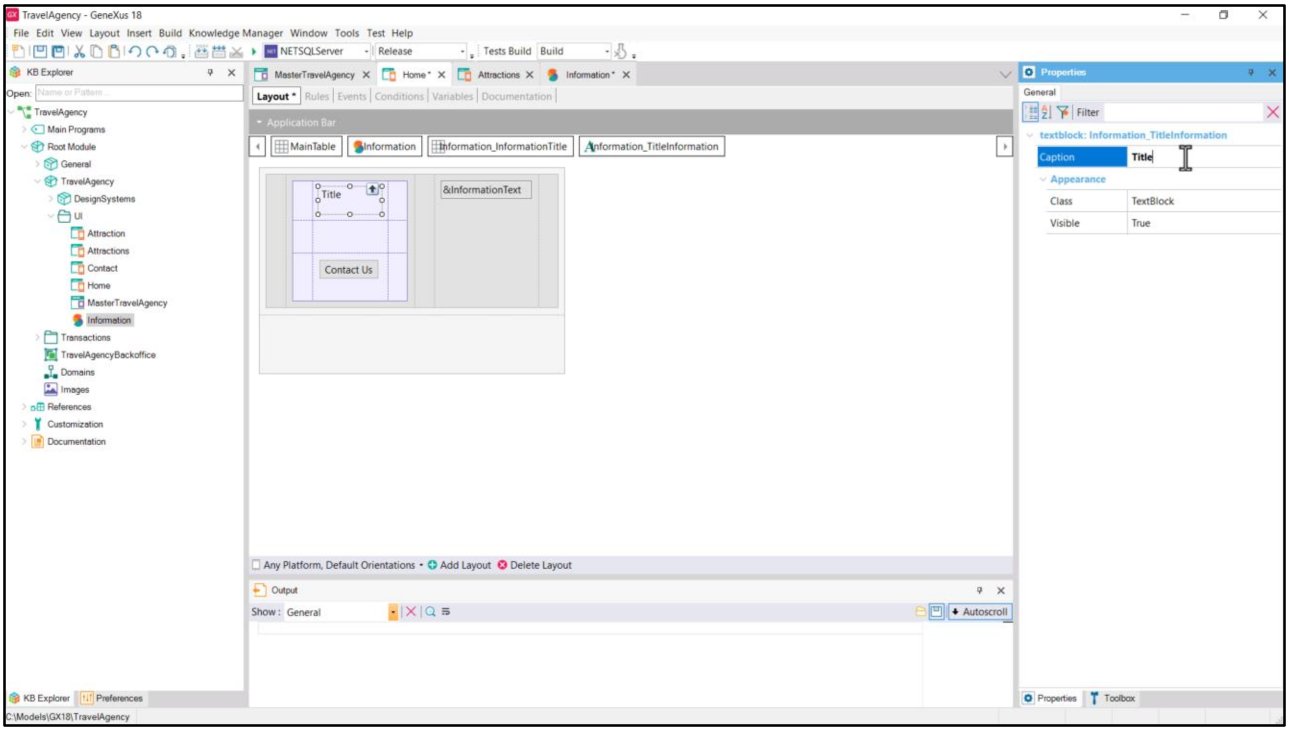
Control Name	MainTable
Appearance	
Columns Style	100dip;628dip;80dip;100%;10...
Rows Style	100%
Width	100%
Height	100%
Auto Grow	True
Class	
Background	(none)
Visible	True
Invisible Mode	Keep Space
Enabled	True
Layout Behavior	
Expand Bounds	Background Only
Expand Bounds L	Behind System Bars
Expand Bounds D	Top, Left, Bottom, Right

So to avoid those redundancies we are going to choose to leave those 712 dips on one side only, and it's going to be at the row level of that Stencil's container. So, here we're going to change this to 100%. So that now, if I have to change it to 800, this is going to be fine, we're saying the table height is going to be 100% of the container...



Control Name	MainTable
Appearance	
Columns Style	100%
Rows Style	712dip;100%
Width	100%
Height	100%
Auto Grow	True
Class	
Background	(none)
Visible	True
Invisible Mode	Keep Space
Enabled	True
Scroll Behavior	
Scroll Factor	1
Zoom Factor	0
Scroll Attachmen	Parent
Form	
Form Class	Form
Enable Header R	False
Layout Behavior	
Expand Bounds	Background Only
Expand Bounds L	Behind System Bars
Expand Bounds D	Top, Left, Bottom, Right
Control Info	
Is Slot	False

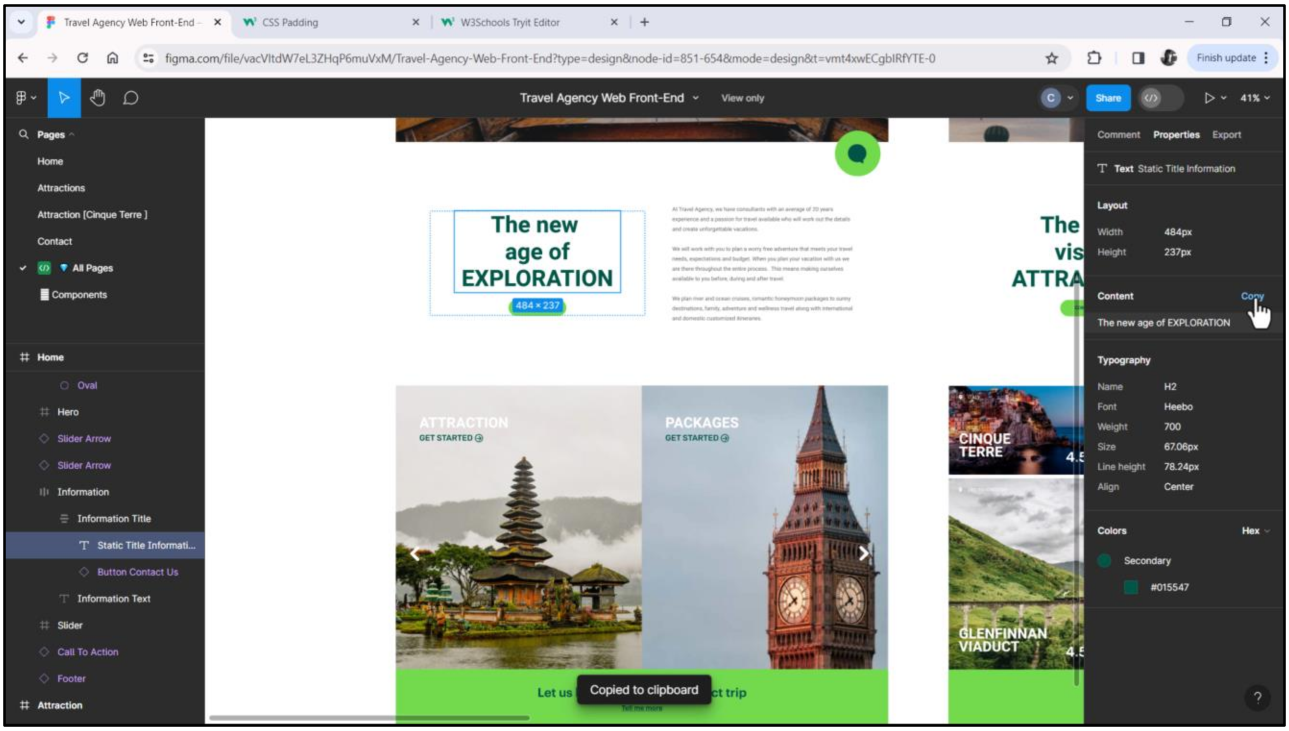
...and the container in this case is this cell that corresponds to the first row of the table. So here I would change to 800 dips. Of course I would have to do the same thing in the attractions panel.



textblock: Information_TitleInformation

Caption	Title
Appearance	
Class	TextBlock
Visible	True

What is left to do to be able to run? To assign a value to the TextBlock and to the variable. I could assign both contents in the Start event of the client, or, for example, to the TextBlock I could directly assign it here, changing this Title...



figma.com/file/vacVltdW7eL3ZHqP6muVxM/Travel-Agency-Web-Front-End?type=design&node-id=851-654&mode=design&t=vmt4xwECgbIRfYTE-0

Text Static Title Information

Layout
Width 484px
Height 237px

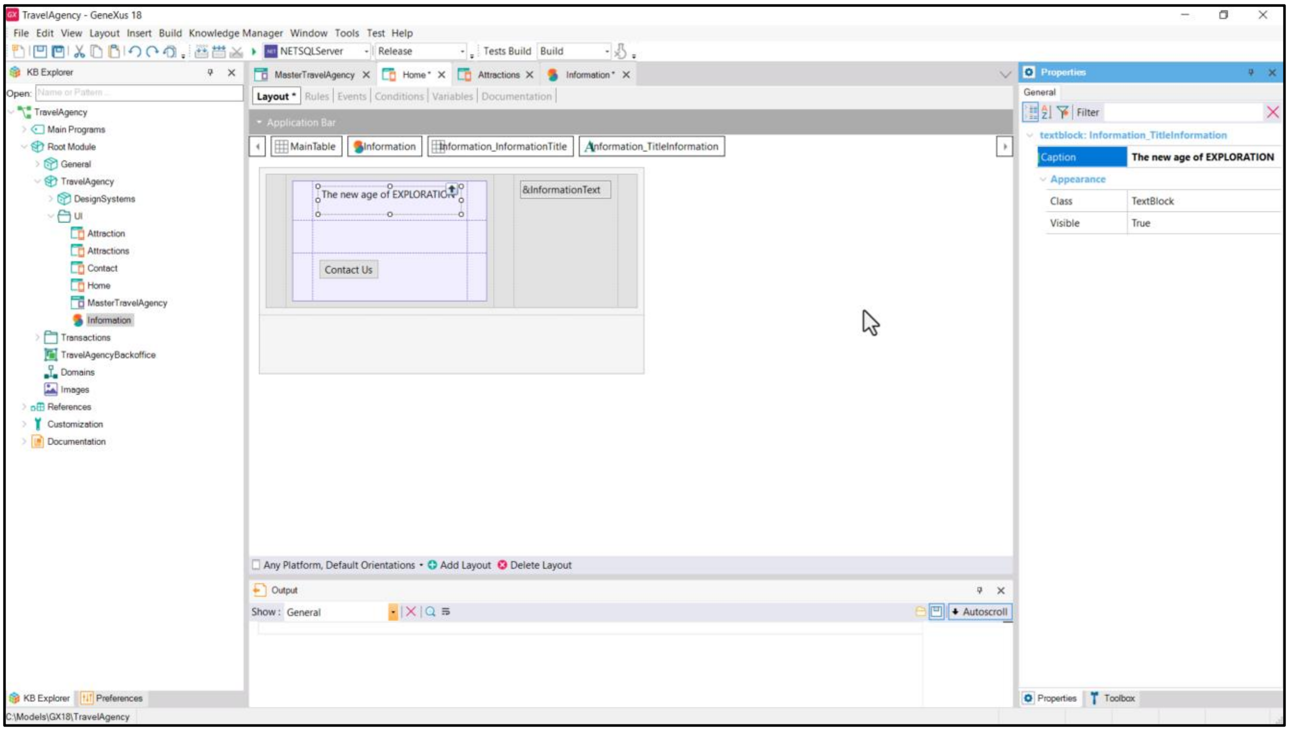
Content
The new age of EXPLORATION

Typography
Name H2
Font Heebo
Weight 700
Size 67.06px
Line height 78.24px
Align Center

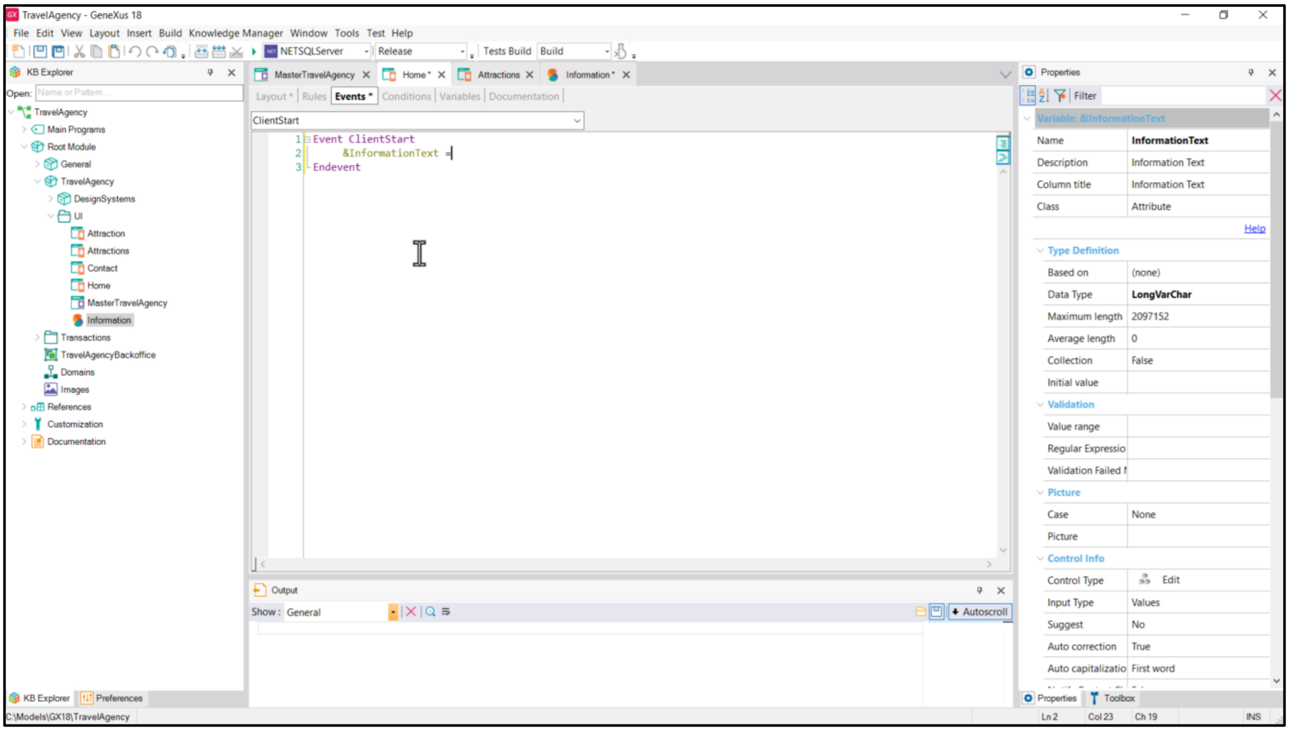
Colors
Secondary
#015547

Copied to clipboard

...for this content that I can copy directly from the file in Figma... you see that it is copied to the clipboard...



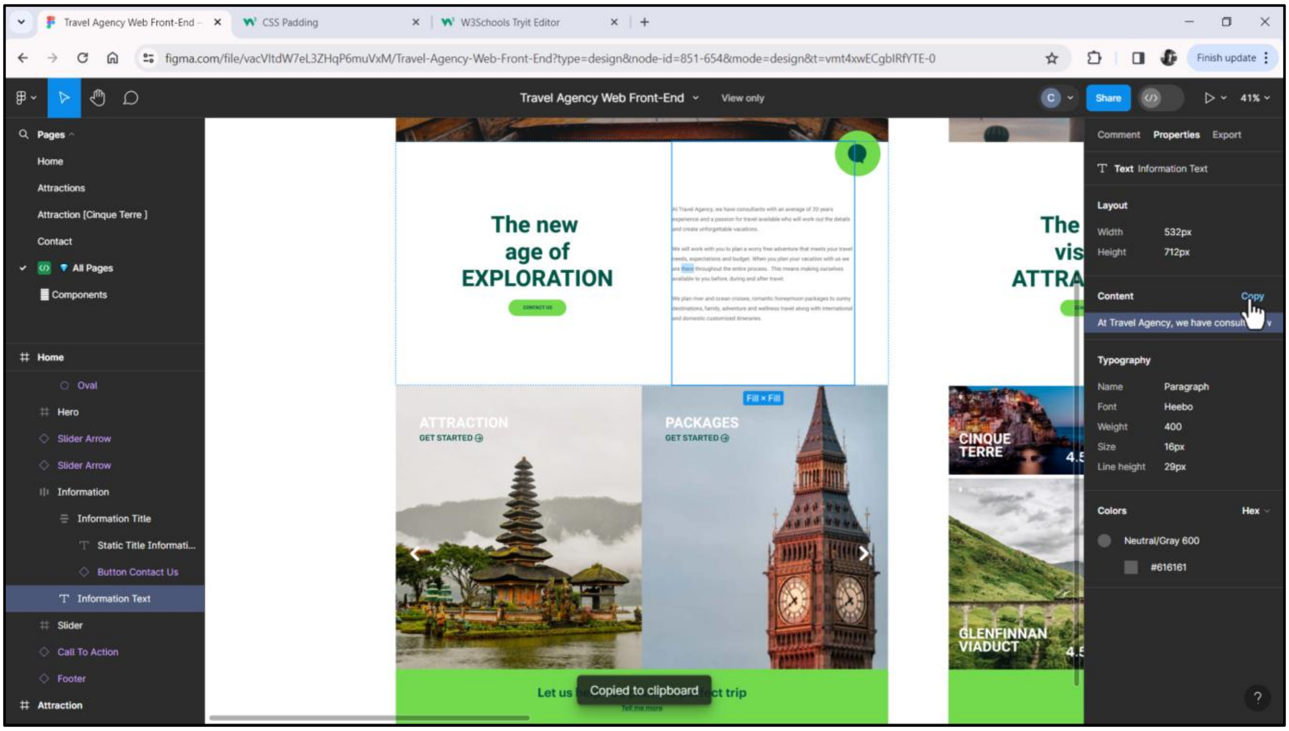
...and then I come here and I paste it directly.



```
Event ClientStart
	&InformationText =
Endevent
```

Name	InformationText
Description	Information Text
Column title	Information Text
Class	Attribute
Based on	(none)
Data Type	LongVarChar
Maximum length	2097152
Average length	0
Collection	False
Initial value	
Value range	
Regular Expressio	
Validation Failed I	
Case	None
Picture	
Control Type	Edit
Input Type	Values
Suggest	No
Auto correction	True
Auto capitalizatio	First word

As for the variable one, I have no choice but to do it in the ClientStart event... then to the InformationText variable I assign...



Text Information Text

Layout
Width 532px
Height 712px

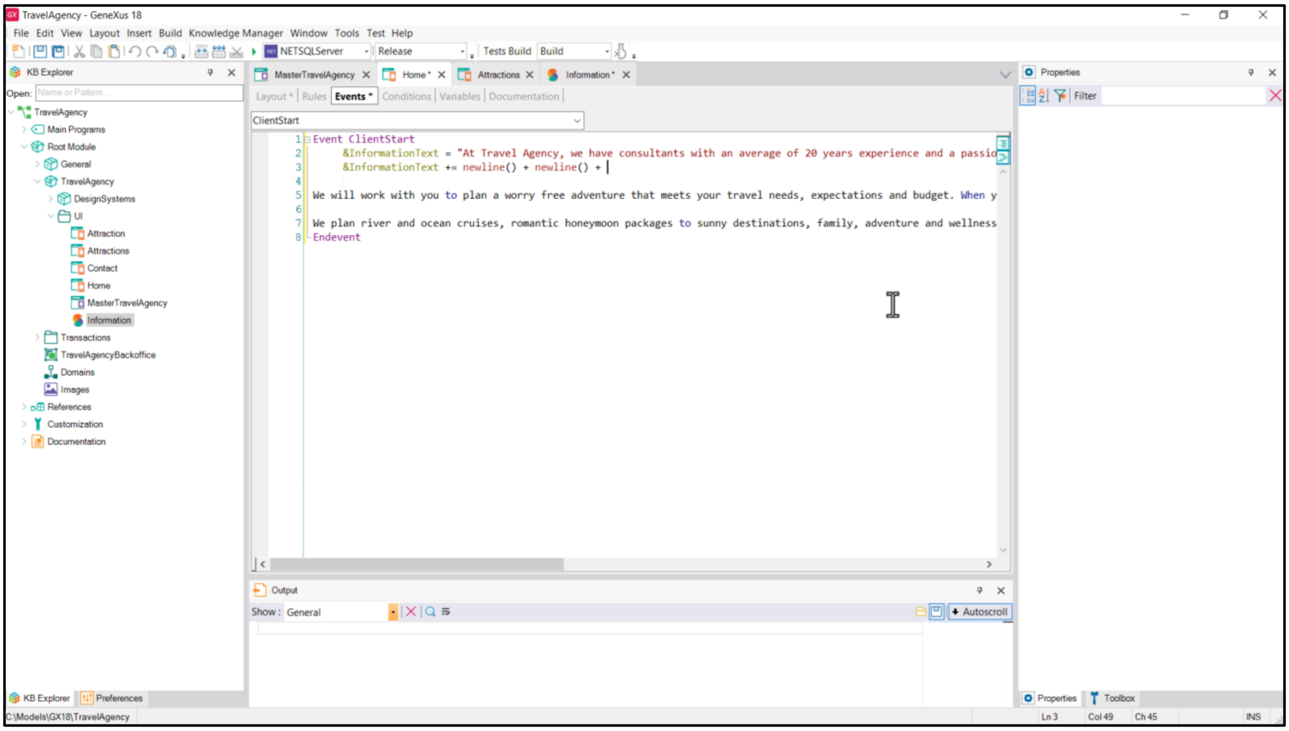
Content
At Travel Agency, we have consult

Typography
Name Paragraph
Font Heebo
Weight 400
Size 16px
Line height 29px

Colors Hex
Neutral/Gray 600
#616161

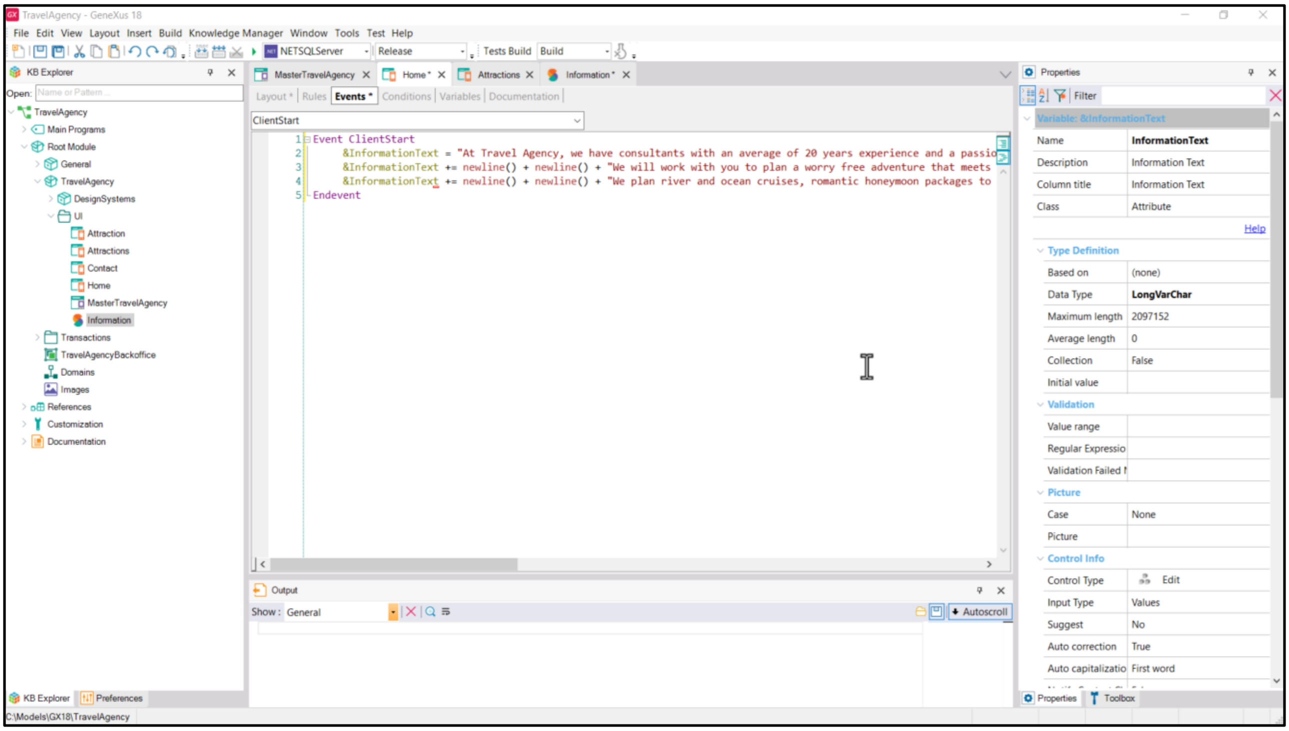
Copied to clipboard

... the content I copy from here...



```
Event ClientStart
      &InformationText = "At Travel Agency, we have consultants with an average of 20 years experience and a passio
      &InformationText += newline() + newline() + 

We will work with you to plan a worry free adventure that meets your travel needs, expectations and budget. When y

We plan river and ocean cruises, romantic honeymoon packages to sunny destinations, family, adventure and wellness
Endevent
```

And I have to separate it in the sentences... Then... to its content, to what I had, I add a line break, another line break...



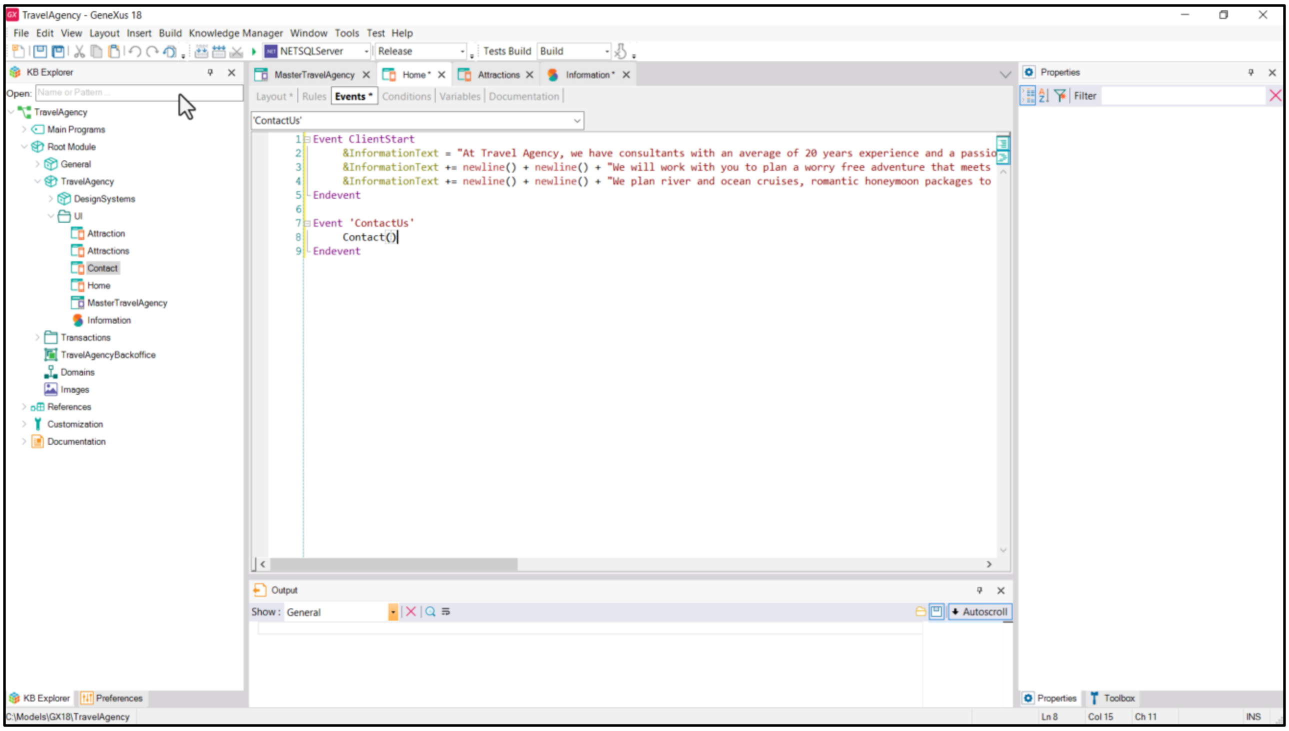
```
Event ClientStart
    &InformationText = "At Travel Agency, we have consultants with an average of 20 years experience and a passio
    &InformationText += newline() + newline() + "We will work with you to plan a worry free adventure that meets
    &InformationText += newline() + newline() + "We plan river and ocean cruises, romantic honeymoon packages to
Endevent
```

Variable: &InformationText

Name	InformationText
Description	Information Text
Column title	Information Text
Class	Attribute
Type Definition	
Based on	(none)
Data Type	LongVarChar
Maximum length	2097152
Average length	0
Collection	False
Initial value	
Validation	
Value range	
Regular Expressio	
Validation Failed I	
Picture	
Case	None
Picture	
Control Info	
Control Type	Edit
Input Type	Values
Suggest	No
Auto correction	True
Auto capitalizatio	First word

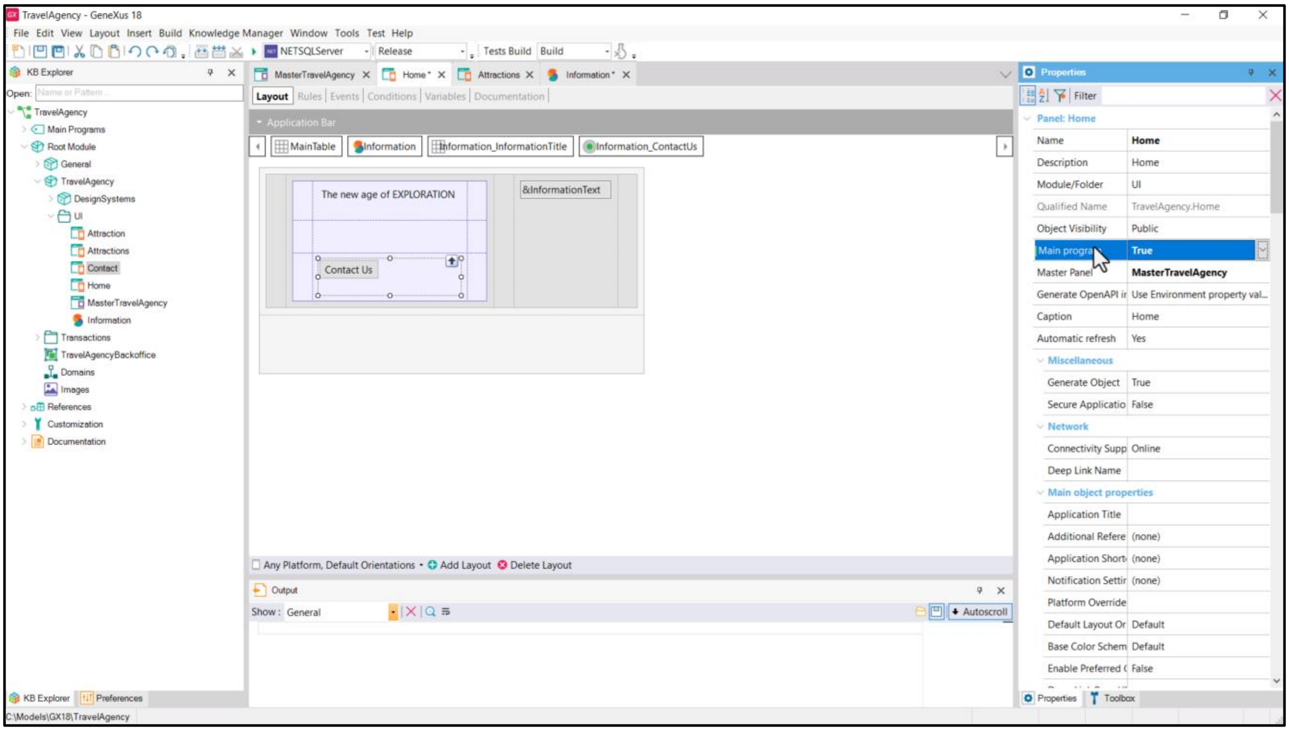
... and now this that was still here... and in the same way...

One clarification that I didn't make: the ClientStart event is different from the Start event in that the former is executed in the client, and the latter in the server. And they will be executed in that order, first the client start, and then the server start. The content of the UI can be updated in both, but as in our case the content of the variable doesn't depend on anything of the server, and it is static content, we do it in the client. If we were implementing a Web panel instead of a Panel, we wouldn't have the ClientStart and then we would have to use Start.



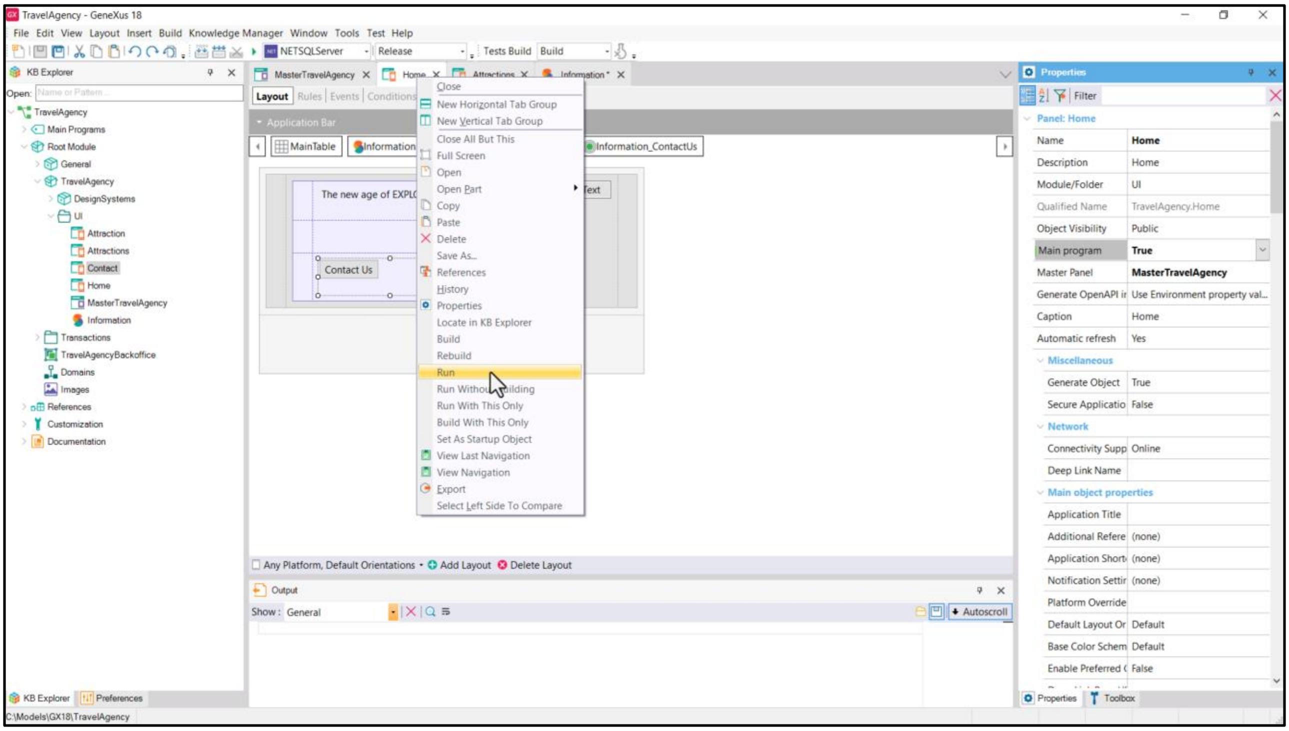
```
Event ClientStart
     &InformationText = "At Travel Agency, we have consultants with an average of 20 years experience and a passio
     &InformationText += newline() + newline() + "We will work with you to plan a worry free adventure that meets
     &InformationText += newline() + newline() + "We plan river and ocean cruises, romantic honeymoon packages to
Endevent

Event 'ContactUs'
     Contact()
Endevent
```

Finally, we have this ContactUs event at the button level and we're going to invoke this panel... which is empty for now.



Panel: Home	
Name	Home
Description	Home
Module/Folder	UI
Qualified Name	TravelAgency.Home
Object Visibility	Public
Main progra	True
Master Panel	MasterTravelAgency
Generate OpenAPI ir	Use Environment property val...
Caption	Home
Automatic refresh	Yes
Miscellaneous	
Generate Object	True
Secure Applicatio	False
Network	
Connectivity Supp	Online
Deep Link Name	
Main object properties	
Application Title	
Additional Refere	(none)
Application Short	(none)
Notification Settir	(none)
Platform Override	
Default Layout Or	Default
Base Color Schem	Default
Enable Preferred (	False

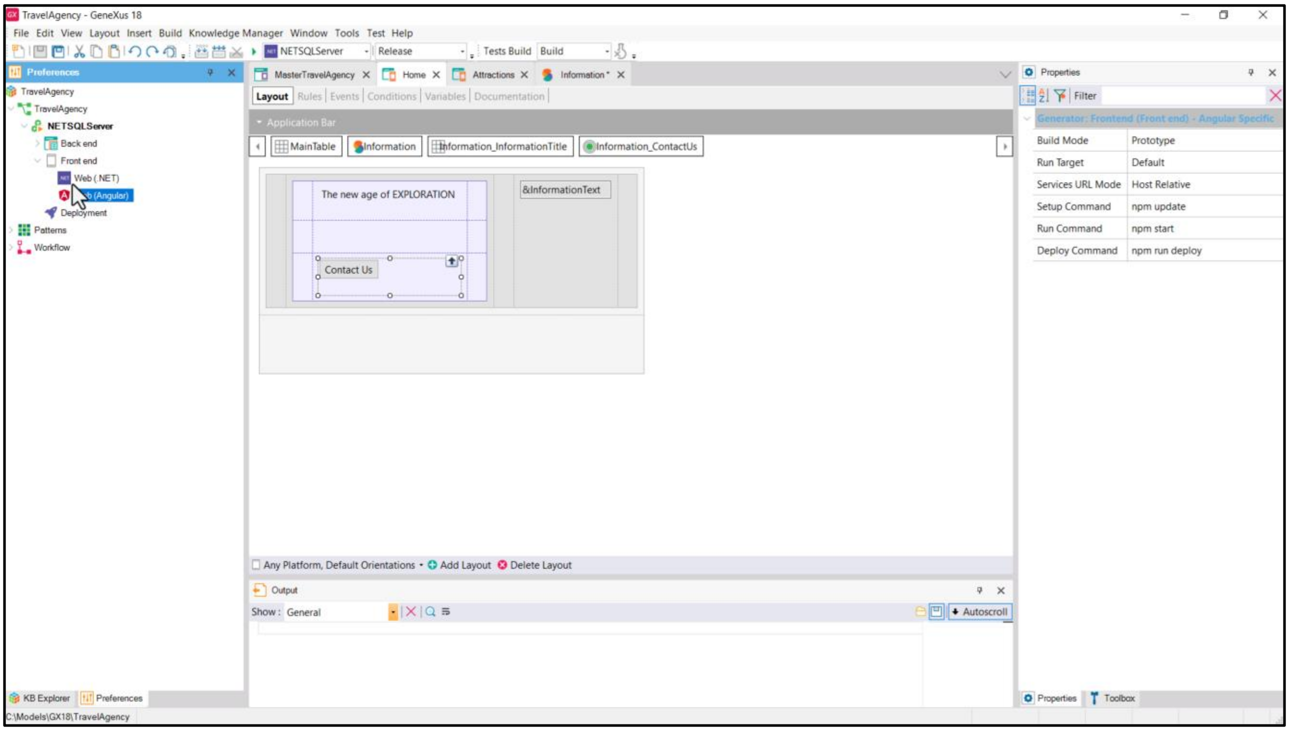
Well, we already have the object ready to be run. What do we need to run it in Angular? For example, to set this panel as Main program.



Panel: Home

Name	Home
Description	Home
Module/Folder	UI
Qualified Name	TravelAgency.Home
Object Visibility	Public
Main program	True
Master Panel	MasterTravelAgency
Generate OpenAPI ir	Use Environment property val...
Caption	Home
Automatic refresh	Yes
Miscellaneous	
Generate Object	True
Secure Applicatio	False
Network	
Connectivity Supp	Online
Deep Link Name	
Main object properties	
Application Title	
Additional Refere	(none)
Application Short	(none)
Notification Settir	(none)
Platform Override	
Default Layout Or	Default
Base Color Schem	Default
Enable Preferred (	False

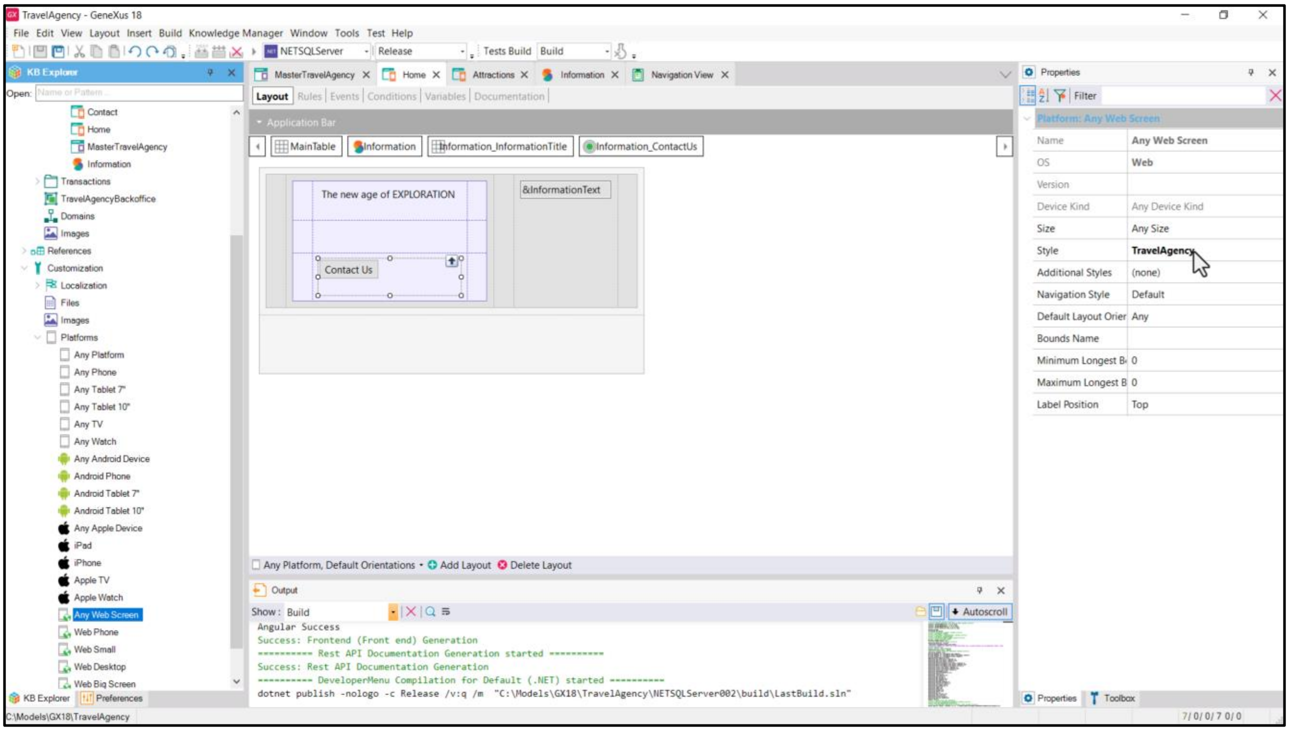
And doing this we can right-click on the panel / Run.



Generator: Frontend (Front end) - Angular Specific

Build Mode	Prototype
Run Target	Default
Services URL Mode	Host Relative
Setup Command	npm update
Run Command	npm start
Deploy Command	npm run deploy

Knowing that we have the Angular Frontend defined and that for development it is always preferable to prototype locally and not in the cloud in order to save deployment time whenever any little detail is updated.
So...

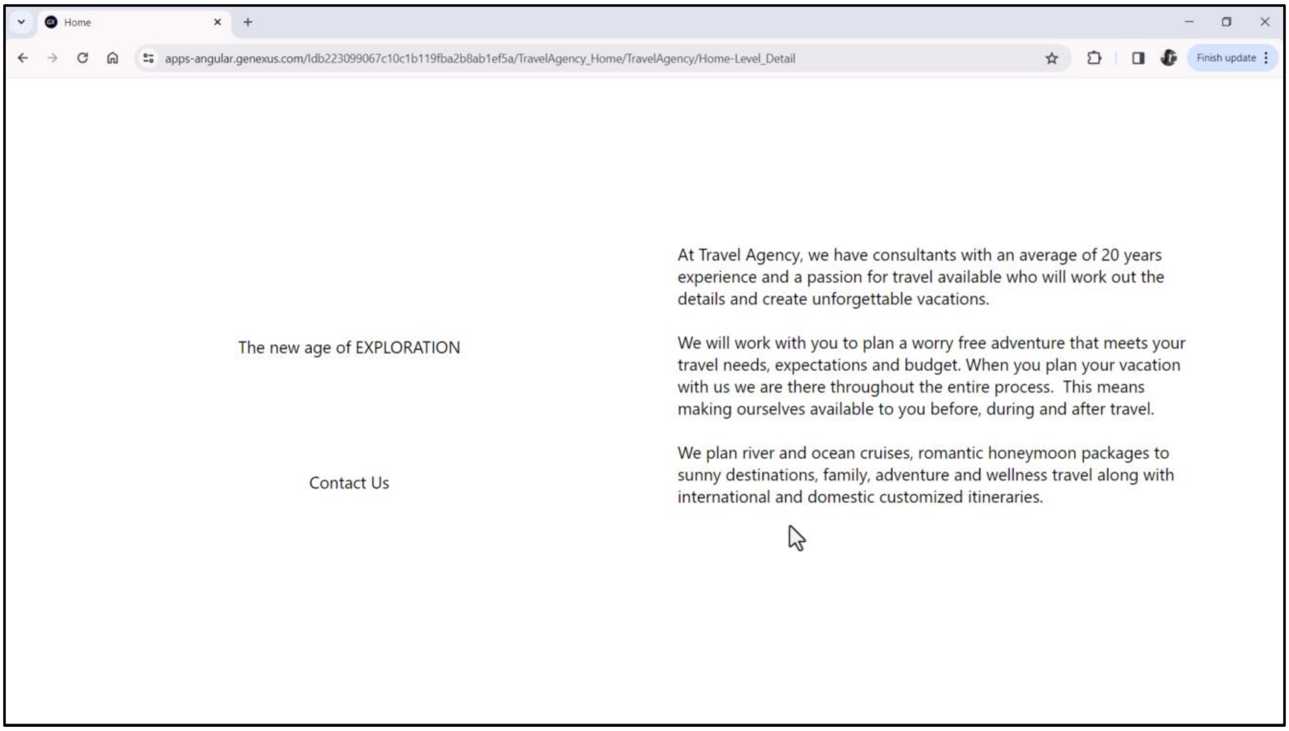


Name	Any Web Screen
OS	Web
Version	
Device Kind	Any Device Kind
Size	Any Size
Style	TravelAgency
Additional Styles	(none)
Navigation Style	Default
Default Layout Orier	Any
Bounds Name	
Minimum Longest B	0
Maximum Longest B	0
Label Position	Top

Show : Build

```
Angular Success
Success: Frontend (Front end) Generation
========== Rest API Documentation Generation started ==========
Success: Rest API Documentation Generation
========== DeveloperMenu Compilation for Default (.NET) started ==========
dotnet publish -nologo -c Release /v:q /m  "C:\Models\GX18\TravelAgency\NETSQLServer002\build\LastBuild.sln"
```

Before the end, let's remember that we had specified that the Any Web platform was going to use the Travel Agency DSO which for now is empty.



Home
apps-angular.genexus.com/Idb223099067c10c1b119fba2b8ab1ef5a/TravelAgency_Home/TravelAgency/Home-Level_Detail
Finish update

The new age of EXPLORATION

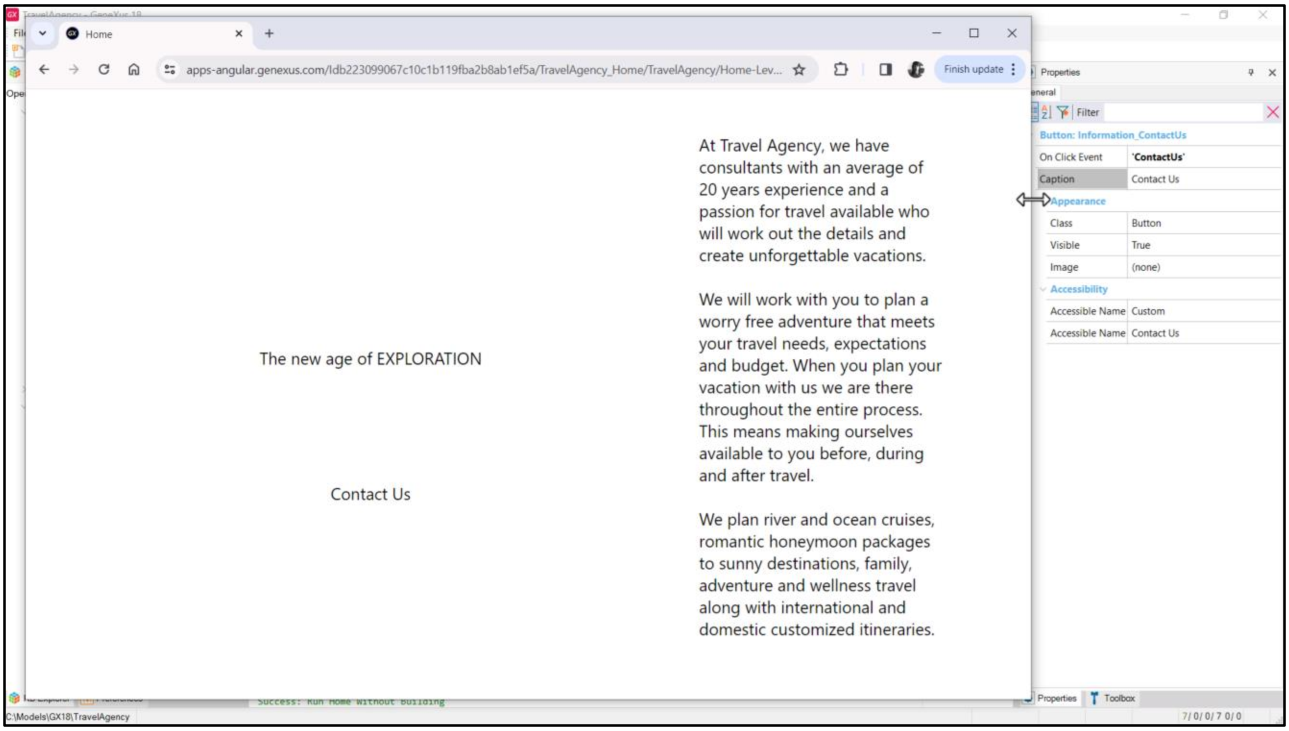
Contact Us

At Travel Agency, we have consultants with an average of 20 years experience and a passion for travel available who will work out the details and create unforgettable vacations.

We will work with you to plan a worry free adventure that meets your travel needs, expectations and budget. When you plan your vacation with us we are there throughout the entire process. This means making ourselves available to you before, during and after travel.

We plan river and ocean cruises, romantic honeymoon packages to sunny destinations, family, adventure and wellness travel along with international and domestic customized itineraries.

And so we see it in the Chrome browser.



Home
apps-angular.genexus.com/Idb223099067c10c1b119fba2b8ab1ef5a/TravelAgency_Home/TravelAgency/Home-Lev...
Finish update

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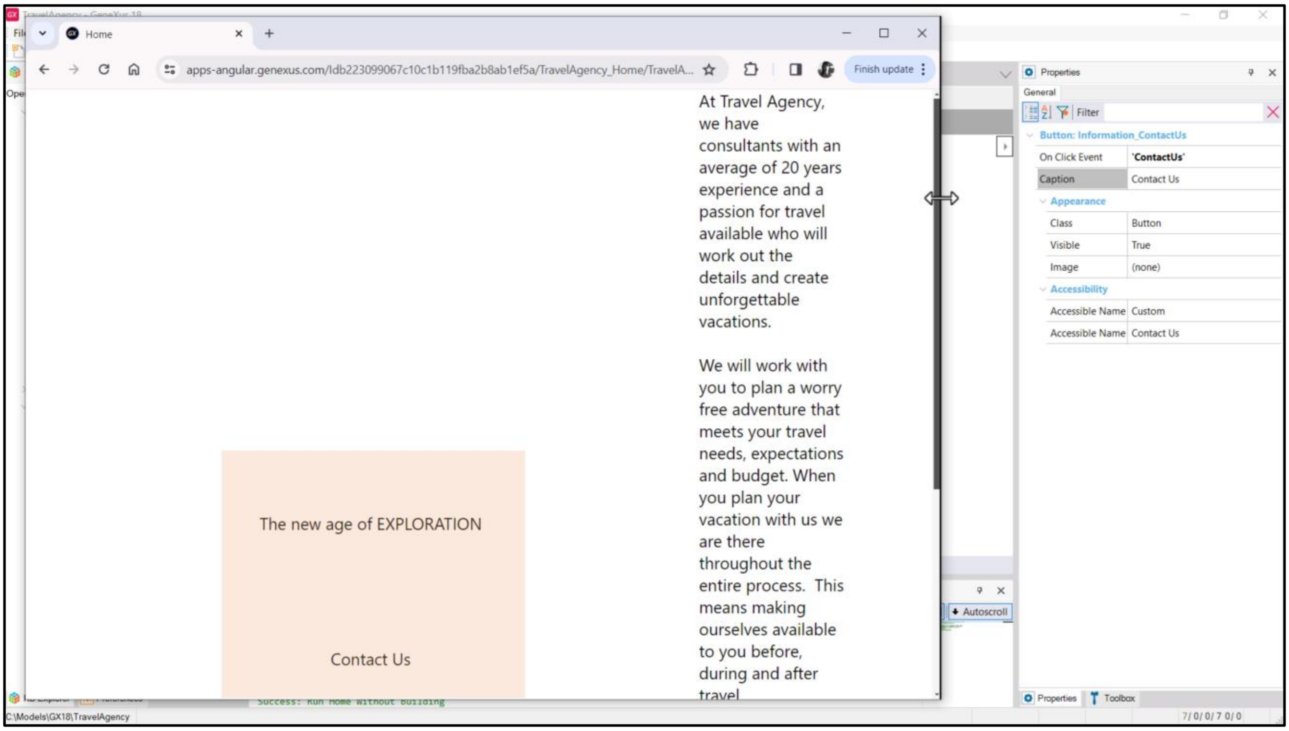
Button: Information_ContactUs

On Click Event	'ContactUs'
Caption	Contact Us
Appearance	
Class	Button
Visible	True
Image	(none)
Accessibility	
Accessible Name	Custom
Accessible Name	Contact Us

```
Success: Run Home without building
```

Note that if we reduce the width of the browser, as we expect, the height of the text on the right increases, but nothing else changes.


Home
apps-angular.genexus.com/Idb223099067c10c1b119fba2b8ab1ef5a/TravelAgency_Home/TravelA...
Finish update
Properties
General
Filter
Autoscroll
Properties
Toolbox
C:\Models\GX18\TravelAgency
7/ 0/ 0/ 7 0/ 0

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The new age of EXPLORATION

Contact Us

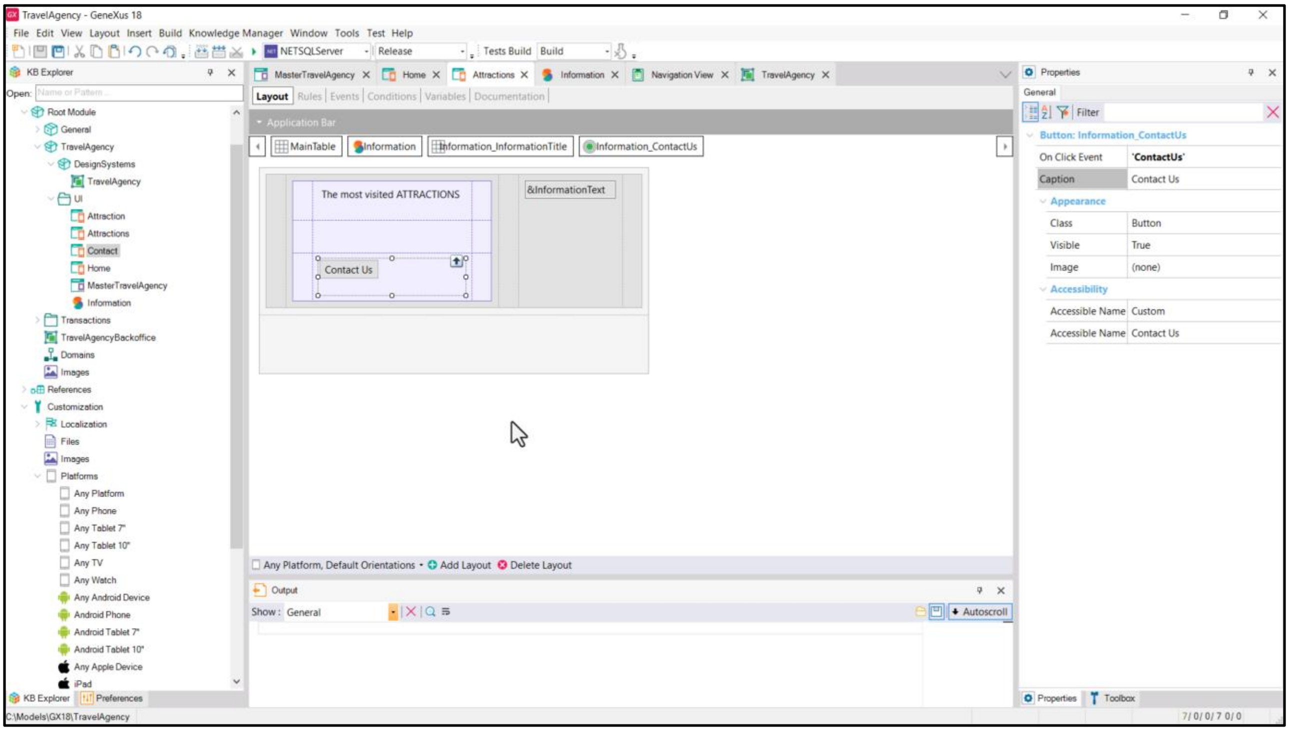
```
Success: Run Home without building
```

Button: Information_ContactUs

On Click Event	'ContactUs'
Caption	Contact Us
Appearance	
Class	Button
Visible	True
Image	(none)
Accessibility	
Accessible Name	Custom
Accessible Name	Contact Us

Nothing except for the height of the table, which is stretched so that the text still fits and that's why we see these other texts go down, since they are vertically centered.

As our DSO is empty, clearly the browser defaults are being applied to our controls, both for font, line spacing, color, and everything else. This is what we will go into in the following videos.



Button: Information_ContactUs

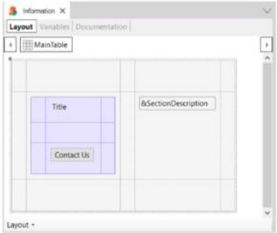
On Click Event	'ContactUs'
Caption	Contact Us
Appearance	
Class	Button
Visible	True
Image	(none)
Accessibility	
Accessible Name	Custom
Accessible Name	Contact Us

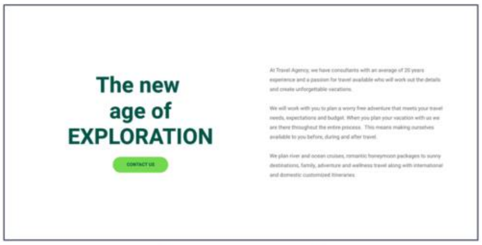
Of course, we will do the same we did for the Home panel, now for the Attractions panel (I will reproduce it quickly so as not to bore you and with that we will end this class).

But first I need to clarify something: when we indicate that an object is Main, this will be implemented as a complete application that will include the object and all those involved from it. Since we haven't implemented the menu part yet, from which all our objects will be integrated, we did this by setting the Home as main and on the other hand the Attractions, in order to be able to run them now that we don't have them related yet. But this is more time consuming than if both objects were integrated in the same application, because in this way they are literally two independent applications. For now I will leave everything like this because we are going to focus only on the Home panel, but then I will have them all in the same program, because it is super important to reduce development times.

GeneXus by Globant

Stencil





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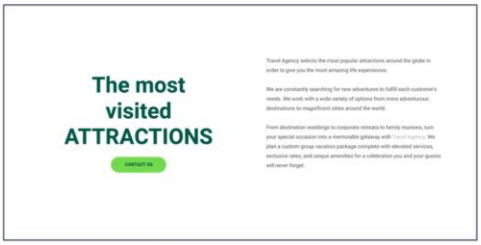
Home



The most visited ATTRACTIONS

CONTACT US

Travel Agency selects the most popular attractions around the globe in order to give you the most amazing life experiences.

We are constantly searching for new adventures to fulfill each customer's needs. We work with a wide variety of options from more adventurous destinations to magnificent cities around the world.

From destination weddings to corporate retreats to family reunions, turn your special occasion into a memorable getaway with Travel Agency. We plan a custom group vacation package complete with elevated services, exclusive rates, and unique amenities for a celebration you and your guests will never forget.

Attractions

Well, at this point we are ready to start working on the Design System Object, to make these two screen sections, both Home and Attractions, look like this.

GX

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