

Cecilia Fernández

13

GeneXus by Globant



No vídeo anterior, apresentei uma possível implementação inacabada para o carrossel do panel Attractions.

Agora vamos analisá-la em profundidade e pensaremos em outras possibilidades.



É utilizado um controle grid quando precisamos apresentar informação repetitiva, seja em quantidade fixa ou variável.

Quando a informação a ser apresentada é variável em quantidade, é claro o uso do grid. Este é o nosso caso, em que a informação a ser exibida é a das atrações da base de dados, que é claramente variável.



Mas também é utilizado quando a quantidade é fixa. Por exemplo, para modelar esses cards do panel Home, também utilizaremos um grid, pois, lembrem-se, será composto por 4 cards fixos, onde apenas 2 ficam visíveis na tela por vez.

Neste caso o grid carregará 4 itens de informação, mas cada um com valores fixos, não retirados da base de dados.



O caso de Attraction será mais parecido com o de Attractions, não apenas porque a informação apresentada é quase idêntica em estrutura visual à dos cards maiores deste outro grid, mas também porque é retirada da base de dados. Neste caso, do segundo nível da transação Attraction.



Embora os 3 carrosséis sejam implementados usando grids, terão suas particularidades. Dois deles podem ser pensados como grids do tipo **grid horizontal**, enquanto o que vamos estudar agora será do tipo **flex**.

GeneXus for Angular Course × +			>
← → C 🛱 😄 training.genexus.com/en/learning/courses/genexus/v18/angular/material/data-loading-logic-on-a-panel-screen	-6105514	* 3))
😵 GeneXus 😹 DL Portal 🗧 Issues			
Version:GeneXus 18			
Data loading logic on a Panel screen			
In this video we will see how the screen of a panel object is loaded, depending on the graphical interface			
components present in it, and how GeneXus automatically creates Data Provider objects responsible for	Total length of videos: 5.8	ōh	
loading.			
G GeneXija			
Data loading logic on a Panel screen Watch later Share	Introduction		
	Course Introduction		
The Man Manufacture of Manufacture o	Architecture of an Angular application		
Layout Rules Conditions Variables Decumentation	Hirst steps with Angular		
	Logic and behavior		
	Data loading logic on a Panel screen		
TemboxTiteLine1	Determination of base tables in a Panel		
Tentiocifficine2	Events in a Panel		
	Panel with multiple grids		
App Server & Database Server	Components and Master Panel		
Variable Data Provider(s)	User Interface and Experience		
part for the grid(s)			
The Battern Data Oceanization - O Mell sever Children sever	Portorial Gras, Flexible Gras and Control Flex		
Watch on Vulue	Controls Maps, Kating, Switch		
	Grouping controls and Control Tab		

No curso de GeneXus para Angular, vocês têm esse primeiro vídeo bem curto que fala sobre a relação de um grid com atributos da base de dados e a carga automática desse grid. Para quem nunca viu nada disso, recomendo parar aqui e assistir.

File Edit view Layout Insert Build Know	edge wanager window loois lest Help		
	NETSQLServer · Release · , Tests Build Build · S	100	
😝 KB Explorer 🤤 🤅	🖞 🛅 Attractions X 🛅 Attractions Coppl X 📓 TravelAgencyBase X 🧮 Attractions X 🖪 Navigation View X	Properties	9
Open: Name or Pattern	Layc TravelAgency AttractionsCopy1 hs Kolishes Documentation	General	
TravelAgency	Application Bar	E 2 Filte	đ
Main Programs		Grid GridA	tractions
Root Module		Control Nam	e GridAttractions
		Collection	&AttractionsData
 Station Systems 	The most visited ATTRACTIONS & dinformationText	Default Activ	on defaults
> 🕅 Desktop		Default Activ	on «deradut»
> Phone		Selection Typ	pe Platform Default
> 😭 Tablet	Contact Us	Enable Multi	iple S False
Files		Pull To Refre	ish False
Images	° (0800	Inverse Load	ling False
~ 🖰 U		Default Sele	cted I (none)
> 🛅 RecicleBin		Control Is	
Attraction		Control In	10
AttractionData	RATEACTION Data item/III Countrollama	Control Ty	pe Flex Grid
Attractions		Auto Grov	v False
Contact		Flex Direct	tion Column
GotHalf	&AttractionsData.item(0).AttractionName &AttractionsData.item(0).AttractionRating	Flex Wrap	Wrap
GetMostVisitedAttractions		Justify Cor	ntent Flex Start
To Home		Aline Item	Flow Chard
5 Information		Align item	is Plex Start
MasterTravelAgency		Align Con	tent Flex Start
GetAttraction		~ Appearan	ice
GetAttractionForMP		Class	Grid
PGetAttractionForMP		Visible	True
Wait		Invisible M	Ande Keen Snace
images		This sole in	ioue keep space
Transactions		Enabled	Iruê
Aurociton		Rows	<default></default>
Attraction DataProvider		Empty Gri	d Bac (none)
> S WorkWithWebAttraction	×	Empty Gri	d Bac Image
		Demosting	Taalbay

Na KB eu já havia implementado uma primeira versão deste grid, na cópia do panel Attractions.

Vou fazer isso com vocês agora em detalhes, para explicar as questões mais relevantes do ponto de vista do frontender.

Esta área em que entramos tem de User Interface e também de codificação.

RB Experier V X Amar Name of Palane. TravelAgency C Man Programs P Rost Mode P	tions X C AttractionsCopy1 X Rules Events Conditions Varia diffin Bar TainTable The most visited ATTRACT	TraveAgencyBase × 8 bbles Documentation insert Attribute/Variable Filters Pattern: Object:	Attractions X 🖸 Navigati	×	,	Toolbox Controls Controls Controls Controls Controls Controls Controls Controls Control Contro	V X
m: [Larged Planters] Layout TavekJapancy	Rules Events Conditions Varia ation Bar fainTable The most visited ATTRACT	hbles Documentation Insert Attribute/Variable Filters Pattern: Object:		×	Þ	Controls EE Attribute/Variable Button Image A Text Block	
t TareNdancy ^ Applic C Man Programs C Man Programs P Root Module P Control I C DesignSystems C Desig	tainTable The most visited ATTRACT	Insert Attribute/Variable Filters Pattern: Object:		×	Þ	Attribute/Variable Button Image A Text Block	
C Man Programs C Man Programs C Man Programs C Man Programs C Manual C TravelAparcy C DesigNystems C Desktop C Prone C Prone C Tablet	The most visited ATTRACT	Pattern: Object:		×	Þ	Button Image A Text Block	
	The most visited ATTRACT	Filters Pettern: Object:				A Text Block	
Image: Specific Specif	The most visited ATTRACT	Pattern: Object:				A Text Block	
 ♥ TraveAgency ♥ DesignSystems ◊ ♥ Desitop > ♥ Phone > ♥ Tablet 	The most visited ATTRACT	Pattern: Object:					
 OesignSystems Oesiktop Or Phone Or Tablet 		Object:				Containers	
> 😭 Desktop > 🕎 Phone > 🚱 Tablet				× …		Canvas	
> 🕎 Phone > 🕎 Tablet -				1		Component	
> Tablet		Name	Туре	Description ^		E Flex	
		AttractionId	Id	Attraction Id		El Grid	
Eles	Contact Us	Ka AttractionInfo	Info	Attraction Info		XX Group	
Images		AttractionName	Name	Attraction Name		Stepcil	
		AttractionPhoto	Image	Attraction Photo		Tab	
> RecicleBin		AttractionRating	Rating	Attraction Rating		Table	
Attraction		K AttractionTitle	Title, GeneXusUnanimo	Attraction Title		Tabular Grid	
AttractionData		AttractionViewId	Id	Attraction View Id			
C Attractions		AttractionViewName	Name	Attraction View Name		Miscellaneous	
Castant		KaractionViewPhoto	Image	Attraction View Photo		Ads View	
Contact		K AttractionViewRating	Rating	Attraction View Rating		Animation View	
CothertVisitedAttractions		Categoryld	Id	Category Id		Audio Controller	
		CategoryName	Name	Category Name		Query Viewer	
		CityId	ld	City Id		GeneXusUnanimo	
MasterTravelAgency		CityName	Name	City Name		Alert Angular	
1 GetAttraction		Countryld	Id	Country Id		Dropdown Angular	
SetAttractionForMP		CountryLastid	Id	Country Last Id		Icon Angular	
PGetAttractionForMP		CountryLastName	Numeric(4.0)	Country Last Name		Select Angular	
> Wait		CountryName	Name	Country Name		B Sidebar Angular	
Images						B Step Angular	
Transactions		New Variable Edit.		GK Cancel		Treeview Angular	
Attraction	-			3			
> Associated Tables							
Attraction_DataProvider							
> 🔂 WorkWithWebAttraction							
KB Explorer 🚻 Preferences 🗌 Any Pla	tform, Default Orientations - 🛟 A	dd Layout 😵 Delete Layout				O Properties T Toolbox	

Vou começar inserindo um grid na segunda linha de Attractions. É aberta esta janela para selecionar atributos e/ou variáveis que queremos que façam parte de cada item que o grid irá apresentar.

Poderia selecionar, por exemplo, para o nosso caso, CountryName, AttractionName, AttractionPhoto, AttractionRating.



Vejamos que colocou os 4 atributos um ao lado do outro, em 4 colunas, mas podemos reacomodar os elementos como quisermos. Diferentemente do que acontece com grid tabulares, nos quais há apenas colunas e não é possível fazer essa outra coisa.

Vamos escolher o primeiro caso, claramente.

TravelAgency - GeneXus 18			- 0 ×
File Edit View Layout Insert Build Knowled	dge Manager Window Tools Test Help		
	NETSQLServer Release , Tests Build Build		
KB Explorer	🛅 Attractions * X 🛅 AttractionsCopy1 X 📓 TravelAgencyBase X 📓 Attractions X 📋 Navigation View X	\sim	Toolbox 9 ×
Open: Name or Pattern	Layout * Rules Events Conditions Variables Documentation		Controls
TravelAgency		_	EB Attribute/Variable
> 💽 Main Programs	Application sar		Button
Soot Module	MainTable Grid1 Grid1Table Grid1Table	•	Image
> 😭 General			A Text Block
V TravelAgency	&InformationText		- Containers
V 😵 DesignSystems	The most visited ATTRACTIONS		E Canuar
> 😭 Desktop			
> Phone	Contraction in the second s		En component
> 🕎 Tablet	Conact Us		E rex
Files			
Images	GRID -		Group
~ 🖰 u			Stencil
> TRecicleBin	CountryName Attribute/Variable: AttractionRating		
CO Attraction	AttractionRating		Table
AttractionData			E Tabular Grid
C Attractions	AttractionRating		- Miscellaneous
C AttractionsCopy1	AttractionName		Ads View
Contact			Animation View
, GetHalf			Audio Controller
GetMostVisitedAttractions			Query Viewer
Lo Home			GeneXusUnanimo
The Manual Transition			Alert Angular
AndSter i raverAgency	1		Dropdown Angular
			Con Angular
Contation one			Select Angular
Wat			Sidebar Angular
imanes			Step Angular
- Transactions			Treeview Angular
- Attraction			
Associated Tables			
Attraction_DataProvider			
> R WorkWithWebAttraction	,		
G KB Explorer	🗌 Any Platform, Default Orientations - 🗘 Add Layout 🥸 Delete Layout		Properties Toolbox
Output			
C:\Models\GX18\TravelAgency			3/0/0/3 0/0

Reacomodo os elementos conforme quero que eles apareçam.



E agora quero executar.

Então no Master Panel... no evento associado ao botão Attractions... descomento a invocação para o panel que estamos construindo... e a invocação para a cópia que já tem o grid avançado coloco para o botão About, provisoriamente.



Não se vê nada em execução. Por quê?

TravelAgency - GeneXus 18				- a ×
File Edit View Layout Insert Build Knowle	dge Manager Window Tools Test Help			
1000000000000000000000000000000000000	🕯 🕁 🕨 🔤 NETSQLServer 🔹 Release 🔹 🚦 Tests Build 🛛 Build 🔹 🖑 🚦			
🚳 KB Explorer 🛛 🤬 🗙	📑 Attractions X 📑 AttractionsCopy1 X 📓 TravelAgencyBase X 📓 Attractions X 📑 Navigation View X 📅 MasterTravelAgency X	~ 0	Properties	₹ ×
Open: Name or Pattern	Lavout Rules Events Conditions Variables Documentation	G	ieneral	
TravelAgency			1 2 Filter	×
> 💽 Main Programs	* Application Bar		Table MainTable	-
State Sta	✓ ∰ MainTable	•	Control Manage	
> 😭 General	1		Control Name Ma	inTable
V TravelAgency	The meet visited ATTRACTIONS & &InformationText		Appearance	
✓ Interior Systems			Columns Style 100	2%
> 😭 Desktop			Rows Style 712	2dip;100%
Phone	Contact Us		Width 100	0% 3
Files			Height 10	14
images			A de Como Te	
~ 🖰 U			Auto Grow Tru	e
> C RecicleBin	CountryName		Class	
To Attraction			Background (no	one)
AttractionData			Visible Tru	e
Attractions	AttractionName AttractionRating		Invisible Mode Ke	ep Space
AttractionsCopy1			Enabled Tru	P
Contect			Ferell Rehaules	
GetHalf			· Scroll Benavior	
GetMostVisitedAttractions			Scroll Factor 1	
			Zoom Factor 0	
MasterTravelAgency			Scroll Attachme Par	rent
CetAttraction			~ Form	
GetAttractionForMP			Form Class For	m
PGetAttractionForMP			Enable Header Fal	**
Wait			chable fiedder fai	,c
🔛 Images			> Layout Behavior	
- Constant			~ Control Info	
Attraction			Is Slot Fal	se
> Associated Tables			~ Accessibility	
Attraction_DataProvider			Accessible Role Ma	in
KB Explorer	Any Platform, Default Orientations - 🗘 Add Layout 🥸 Delete Layout	0	Properties Toolbox	
Output				
C:\Models\GX18\TravelAgency				7/0/0/7 2/2

Antes de mais nada, vejamos o tamanho da linha na qual o grid está localizado. 100% da altura restante de tirar 712 dips. Obviamente aqui não está o problema.

TravelAgency - GeneXus 18					o ×
File Edit View Layout Insert Build Kno	wledge Manager Window Tools Test Help				
1900 1000 1000 1000 1000 1000 1000 1000	🛗 🗻 🕨 🖬 NETSQLServer 🐳 Release 🔹 🖕 Tests Build 🛛 Build 🔹 🖏 .				
😚 KB Explorer 🤤	× 📅 Attractions X 📅 AttractionsCopy1 X 🐞 TravelAgencyBase X 🕷 Attractions X 👩 Navigation View X 📅 MasterTravelAgency X	~ 0			* *
Open: Name or Pattern	Lavout Rules Events Conditions Variables Documentation	Gen	eral		
TravelAgency			2 Filter		×
> 🔄 Main Programs	* Application Bar		Grid: Grid1		^
Soot Module	(Image: A state of the state of	>	Control Nama	-244	
> 🚱 General			Londoi Name G	ing i	
V TravelAgency	The most visited ATTPACTUONS & & & & & & & & & & & & & & & & & & &		Collection		
OesignSystems		1	Default Action <	:default>	
Desktop		5	Selection Type P	latform Default	
Tabled	Contact Us	1	Enable Multiple S Fi	alse	
Files		1	Pull To Refresh F	alse	
Images	9		Inverse Loading F	alce	
~ 🔁 ui			Defends Coloring		
> 🛅 RecicleBin	Country/warne		Default Selected (r	none)	
Attraction			Control Info		
AttractionData			Control Type G	irid	
Attractions	Attractionivame		Auto Grow R	alse	~
AttractionsCopy1	0 0		Scroll Direction V	ernst	
Contact			Snap To Grid F	alse	
GetMostVisitedAttractions			Items Lawout M S	ingle	
Home			nens cayour m s	ingic	
5 Information			Appearance		
MasterTravelAgency			Class G	irid	
E GetAttraction			Visible T	rue	
GetAttractionForMP			Invisible Mode K	leep Space	
PGetAttractionForMP			Enabled T	irue	
* Weit			Rows <	default>	
images			Emply Grid Bac (none)	
Attraction			Empty one bac (i	ione)	
Associated Tables			Empty Grid Bac In	nage	
Attraction_DataProvider			Empty Grid Tex		
> 5 WorkWithWebAttraction	v		Empty Grid Tex T	extBlock	~
B KB Explorer	Any Platform, Default Orientations - 🗘 Add Layout 😳 Delete Layout	0 P	Properties Toolbr	DIK	
Output					
C:\Models\GX18\TravelAgency				7/0/0/7	2/2

Entre as propriedades do Grid, vemos que tem a Auto Grow definida como False, então não crescerá conforme seu conteúdo cresce.

TravelAgency - GeneXus 18			- a ×
File Edit View Layout Insert Build Knowl	edge Manager Window Tools Test Help		
1000% 10000 1000 1000	🗄 🗻 NETSQLServer - Release - Tests Build Build - 🖧 -		
🐞 KB Explorer 🤤 😕	TAttractions X TAttractionsCopy1 X TravelAgencyBase X Attractions X Newtration View X TattractionsCopy1 X	Properties	<i>a</i> >
Open: Name or Pattern	Taman Ruler Emote Condition Visibles Decomposition	General	
TravelAgency	A A A A A A A A A A A A A A A A A A A	Filter	>
> C Main Programs		Tables ColdsTable	
	Image: MainTable Image: Grid1 Grid1Table	Table: Grid Flable	
> 😚 General		Control Name	Grid1Table
TravelAgency	8 InformationText	Layout Name	
V 😵 DesignSystems	The most visited ATTRACTIONS	Appearance	
> 😭 Desktop		Columns Style	33%;33%;34%
> m Phone	Contact Us	Rows Style	baba
> Tablet		Width	100%
im Piles		Widdi	
~ 🖂 U		Height	
> 🗂 RecicleBin	CountryName	Auto Grow	Trules Y
Attraction		Class	Table
AttractionData		Background	(none)
Attractions	AttractionName AttractionRating	Visible	True
AttractionsCopy1	ló ô	Invisible Mode	Keen Snace
Contect		Fachlad	Teres
GetHalf		Enabled	Irue
GetMostVisitedAttractions		Scroll Behavior	
Lo nome		Scroll Factor	1
MasterTravelAgenry		Zoom Factor	0
CetAttraction	1	Scroll Attachme	Parent
GetAttractionForMP		> Layout Behavio	
PGetAttractionForMP		Control Info	
D Wait		Control Into	
images		Is Slot	False
C C Transactions		~ Accessibility	
- Attraction		Accessible Role	
Associated Tables		Accessible Nan	Custom
Attraction_DataProvider	v	Accessible Nan	
KB Explorer	Any Platform. Default Orientations - C Add Lavout C Delete Lavout	Properties T Tool	DOX
Output			
C:\Models\GX18\TravelAgency			7/0/0/7 2/2

E se analisarmos cada item de seu conteúdo, veremos que será modelado como esta tabela, que possui 3 colunas e duas linhas, e que tem configurada como altura "platform default". E mesmo que tenha Auto Grow em true, como o grid não o tem, não será aplicado.

V C Home X +			- 0 ×
← → C ⋒ (O localhost:49853/TravelAgency/Attractions-L	evel_Detail		☆ ⊅ 0 :
	Brazil		
-	Christ the Redeemer	4	
ien i	United States		
-	Smithsonian Institute	3.9	
5	France		
	Matisse Museum	3.5	
	China		
	Forbidden city	3.9	
	Italy		
	Cinque Terre	4.5	
	Scotland		
	Glenfinnan Viaduct	4.5	
	England		
-	London Towers	4.5	
	United States		
	Long Bridges	4.5	13
	China		

Observemos o que acontece se alterarmos para True o Auto Grow do grid...



Não queremos um grid com Auto Grow, porque na verdade queremos um carrossel que tenha um scroll horizontal. A altura terá que ser fixa.

File Edit View Layout Insert Build Knowl	dge Manager Window Tools Test Help A → ■ NETSOLServer • Release • Tests Build Build •			
6 KB Explorer 9 >	TravelAgencyBase X K Attractions Copy1 X	Navigation View X T MasterTravelAgency X V	O Properties	9 X
Open: Name or Patern	Lavout Rules Events Conditions Variables Documentation		General	
TravelAgency			E PI Filter	>
> 🔄 Main Programs	- Application Bar		v Table: MainTable	
State Sta	✓ ∰ MainTable	•	Control Martin State	
> 😭 General	1	_	Control Name Main Table	
V TravelAgency	&informationText		~ Appearance	
V 🐑 DesignSystems	The most visited ALLIKACTIONS		Columns Style 100%	
> 😭 Desktop			Rows Style 719 p;829dip	***
> Phone	Contact Us		Width 100%	
> Tablet			Height 100%	
Pries			Height	
	GRID		Auto Grow True	
> P RecicleBin	CountryName		Class	
Attraction			Background (none)	
AttractionData			Visible True	
To Attractions	AttractionName AttractionRating		Invisible Mode Keep Space	
AttractionsCopy1			Eashied Tous	
Contect			Enabled	
GetHalf			Scroll Behavior	
GetMostVisitedAttractions			Scroll Factor 1	
Home			Zoom Factor 0	
Information			Scroll Attachme Parent	
California California			Form	
GatAttractionForMP	4			
PGetAttractionForMP			Form Class Form	
Wait			Enable Header False	
Images	Any Platform, Default Orientations - O Add Layout O Delete Layout		> Layout Behavior	
- C Transactions	Down		Control Info	
Attraction			I Is Slot False	
> C Associated Tables	Show: Build · X Q =		Annesibility	
Attraction_DataProvider	Calculating Mobile Targets for Frontend (Front end)	The second s	Accessionity	
> I WorkWithWebAttraction	Angular Execution started	With the same	Accessible Role Main	
> Category	/ Success: Angular Execution	Tel (http://www.icenten Encontencentencentencentencentencentencentencentencentencentencentencentencentencentencentencentencentencentenc	Accorcible Non Outem	

Então defino essa altura para a linha em que o grid está...

TravelAgency - GeneXus 18				- 0	ł ×
File Edit View Layout Insert Build Knowledg	je Manager Window Tools Test Help				
	▲ ► ■ NETSQLServer - Release - Tests Build Build - 2 =	-			_
🞯 KB Explorer 🧧 🗙	🛅 Attractions* X 🛅 AttractionsCopy1 X 🦉 TrsvelAgencyBase X 🦉 Attractions X 🛅 Navigation View X 🛅 MasterTravelAgency X	~ 0	D Properties		* *
Open: Name or Pattern	Layout * Rules Events Conditions Variables Documentation	G	Jeneral		
TravelAgency			🗄 🛃 🌾 Filter		×
> 💽 Main Programs			Grid: Grid1		-
V 🐑 Root Module	() HainTable) H Grid1	· ·	Control Name	Grid1	
> 🕎 General			e un		
V TravelAgency	The most visited ATTRACTIONS & & Antonio Text		Collection		
Contraction Contraction Contraction			Default Action	<default></default>	
Desktop			Selection Type	Platform Default	
Tablet	Contact Us		Enable Multiple S	False	
Files			Pull To Refresh	False	
Images	0		Inverse Loading	Ealea	
~ 🖰 U			inverse coading	raise	
> 🛅 RecicleBin	CountryName		Default Selected I	(none)	
To Attraction			 Control Info 		
AttractionData			Control Type	Grid	
Attractions	AttractionName AttractionRating		Auto Grow	False	
AttractionsCopy1	là o ô		Scroll Direction	Vertical	_
Contect			Enne To Grid	False	
GetHalf			Shap to ond	raise	
GetMostVisitedAttractions			Items Layout M	Single	
Lo nome			~ Appearance		
To MasterTravelAgency			Class	Grid	
CetAttraction			Visible	True	
GetAttractionForMP			Invisible Mode	Keen Snace	
PGetAttractionForMP			Feeblad	Reep Space	
> Wait			Enabled	Irue	
Images	🗌 Any Platform, Default Orientations - 😋 Add Layout 🥴 Delete Layout		Rows	<default></default>	
- C Transactions	Output	9 ×	Empty Grid Bac	(none)	
- Attraction	Show: Beild	Autoscroll	Empty Grid Bac	Image	
> Associated Tables	Success: Execution	Citizen and a second	Empty Grid Tex		
Attraction_DataProvider	Calculating Mobile Targets for Frontend (Front end)	ja	Empty Grid Tex	TextBlock	
WorkWithWebAttraction	Angular txecution started	2000000000	Empty and tex	TEXIBIOCK	
> Category	Success Run Home	dimminus 1	These Coloring		

...e deixo o Auto Grow do Grid em False.

Terei que trabalhar com cuidado os tamanhos desta tabela.

KB Explorer 9 X	Attentions Y C Attentions Court Y Touchase Base Y Attentions Y Attentions Y Attentions Y	O Properties	* ×
Down Name or Pattern		General	
TravelAgency	Layout - Rules Events Conditions Vanables Documentation	Filter	×
Man Programs Control Management Control Made Control Management Control Control Management Control Control	Application Bar Application Bar Application Bar Application Bar Application Bar Contact Us Contact Us Contact Us AttractionRating AttractionRating O	Visible Visible Invisible Mode Enabled Rows Empty Grid Ba Cal Schedule Accessible Nai Accessible Nai Accessible Nai Cell Informati Row Span Col Span Horizontal All	True ^ True ^ 'tkep Space ` True - 'default> - c (none) - c (mage - x - restBiock - n - 1 - 1 - 0 - 1 - 0 Default -
GetAttraction		Vertical Alignm	n Default
GetAttractionForMP		> Refresh timer	out
PGetAttractionForMP		~ Data	
Wait	Any Platform Default Orientations • 🗘 Add Lavout 🚯 Delete Lavout	Orders	(0 orders)
Transactions		Search	(0 filters)
Attraction Attraction Attraction Tables Attraction_DataProvider G WorkWithWebAttraction	Stow: Buid v × Q ⇒ Success: Lexcution Success: Lexcution started	X Conditions Conditions Dase Trn Unique	

O que podemos ver até agora é que utilizando atributos a carga do grid já é automática. É um grid com tabela base Attraction. Nem precisei explicitar nesta propriedade. Inferiu isso sozinho.



Por trás GeneXus constrói um Data Provider que é o que retorna um SDT coleção com todos os itens necessários para carregar o grid. E observem a navegação desse Data Provider. Está indo navegar pela tabela Attraction, acessando Country para trazer o CountryName.

File Edit View Layout Insert Build Knowle	edge Manager Window Tools Test Help ☆ ▲ ■ NETSQLServer · Release · Tests Build Build · & .		
😚 KB Explorer 🤤 🛪	🔽 Attractions* X 🛅 AttractionsCopy1 X 🦉 TravelAgencyBase X 🦉 Attractions X 👩 Navigation View X 📅 MasterTravelAgency X 🗸	O Properties	9 ×
Open: Name or Pattern	Layout * Rules Events Conditions Variables Documentation	General	
TravelAgency		Eilter	>
> 💽 Main Programs	* Application bar	Class Grid	
~ 🐑 Root Module	MainTable E Gridt	Visible True	
> 🚱 General		Invisible Made Keep Case	
TravelAgency	The most visited ATTRACTIONIS & & dinformationText	invisible mode Keep space	
DesignSystems	Orders – – ×	Enabled True	
Phone	Till Orders Till Filter	Rows <default></default>	
Tablet	Contact Us Order (Attraction Rating)	Empty Grid Bac (none)	
Files	Constantiation Constantiatis Constantiation Constantiation Constantiation Constan	Empty Grid Bac Image	
Images	GRD Bake V	Empty Grid Tex	
~ 🖰 UI	CountryNat	Empty Grid Tex TextBlock	
> C RecicleBin		Data Selector	
Attraction		- Jata Selector	
AttractionData	AttractionN	> Layout Behavior	
AttractionsCopy1		~ Accessibility	
Contect		Accessible Nan Custom	
GetHalf		Accessible Nan	
GetMostVisitedAttractions		 Cell information 	
E Home		Row Span 1	
5 Information		Col Span 1	
MasterTravelAgency	· · · · · · · · · · · · · · · · · · ·	Understat Aller Default	
GetAttraction		Horizontal Alig Default	
CetAttractionForMP		Vertical Alignm Default	
> Wait		> Refresh timeout	
Images	🗋 Any Platform, Default Orientations - 🗘 Add Layout 😢 Delete Layout	✓ Data	
- C Transactions	P Odput 9 X	Orders (0 orders)	
V T Attraction		Search (0 filters)	
> Associated Tables	Success Execution	Conditions	
Attraction_DataProvider	Calculating Mobile Targets for Frontend (Front end)	I Pare Tro	
WorkWithWebAttraction	Success: Angular Execution started	loase ini	
KB Explorer	Success: Run Home	Description Tranker	

Se quiséssemos ordenar de forma decrescente por AttractionRating, vejam que será suficiente fazer isto... definir uma order... de acordo com esse atributo, NÃO crescente.



E se agora pedirmos para ver a lista de navegação... a vemos refletida aqui.

File Edit View Layout Insert Build Knowle	edge Manager Window Tools Test Help		
KB Explorer	Tattractions X TattractionsCopy1 X X TravelAgency/Base X X Attractions X To Navigation View X Tattractions X	Properties	4 ×
Open: Name or Pattern	Laward Bules Events Conditions Variables Documentation	General	
TravelAgency		E 2 Filter	×
> 🔄 Main Programs	Application Bar	- Canvas: Attractir	
- 🐨 Root Module	MainTable HighridAttractions	F Control Name	AttractionCard
> 🚱 General		Control Name	Attractioncard
V TravelAgency	The most visited ATTRACTIONS & & & & & & & & & & & & & & & & & & &	Layout Name	Large
DesignSystems		Appearance	
Phone		Width	472dip
> ST Tablet	Contact Us	Height	560dip
Files		Class	Table
images		Background	(none)
~ 🗁 UI	· · ·	Visible	True
> C RecicleBin		Invisible Mode	Veen Centre
Attraction		Invisible Mode	Keep space
AttractionData	8/AttractionsData.item(0).CountryName	Enabled	True
Attractions Copy 1	q	Scroll Behavior	r
Contact		Scroll Factor	1
GetHalf	&AttractionsData.item(U).AttractionsData.item(0).Attra	Zoom Factor	0
GetMostVisitedAttractions		Scroll Attachm	Parent
To Home	d b	> Lavout Behavi	07
5 Information		Control Info	
MasterTravelAgency		in Class	folge.
GetAttraction		IS SIDE	raise
PGetAttractionForMP		~ Accessibility	
Wait		Accessible Role	É
Images	🗌 Any Platform, Default Orientations - 🗢 Add Layout 😵 Delete Layout	Accessible Nam	Custom
- C Transactions	Output	Accessible Nan	
Attraction		-	
> Associated Tables	Specifying TravelAgency.Attractions_Level_Detail_Grid1 (1 of 1)	2	
Attraction_DataProvider	warning spc0038: There is no index for order (AttractionNating); poor performance may be noticed in grid 'Grid1'. (Panel	1	
> Government	specifying Travelagency.Attractions_Level_Detail (2 of 2) information nfo@Deli This object has client-side events only. no data providers will be generated. (Panel 'Travelagency.dt		
Category	Success: Specification	A Design of the second se	

Na implementação que mostrei no vídeo anterior, onde não utilizei atributos...



...eu criei explicitamente um Data Provider, bem como também o SDT que utilizo como coleção, e o invoco também explicitamente, para que seja carregado no grid quando tiver seus dados.



O evento Refresh, lembremos, será disparado antes da carga do grid.

Então, chamo o Data Provider, ele retorna a coleção de dados, de itens, carregados...

TravelAgency - GeneXus 18			- 0	×
Hie Edit view Layout insert Build Knowledge Manager Window Tools Test Help	Tests Build Build			
Release	· · · · · · · · · · · · · · · · · · ·	2 mm (2) 2 mm fr		
KB Explorer V X Attractions X AttractionsCopy1	X 🧕 TravelAgencyBase X 🧕 Attractions X 📋 Navigation View X 📑 MasterTravelAgency X 🛅 GetMostVisite	> Properties		* ×
Open: Name of Pattern Layout Rules Events Conditions Var	riables Documentation	General		
TravelAgency Application Bar		2 🌾 Filter		×
Main Programs		Grid GridAttrac	ctions	^
		Control Name	GridAttractions	
STravelAgency		Collection	&AttractionsData	
O DesignSystems The most visited AT	TRACTIONS & &InformationText	Default Action	<defailer< td=""><td></td></defailer<>	
> 😚 Desktop		Selection Type	Platform Default	
> Phone		Section type	C False	
> Tablet		Enable Multiple :	3 raise	
Files		Pull To Refresh	False	
Images GRID	Large * 🖭	Inverse Loading	False	
C BerichBin		Default Selected	i (none)	
T Attraction		Control Info		
AttractionData		Control Type	Flex Grid	
Attractions O	8rAttractionsData.item(0).CountryName	Auto Grow	False	
AttractionsCopy1		Flav Direction	Cohuma	
Contact & AttractionsData.item(0).Attractic	unName	Flex Direction	Column	
GetHalf	exattractionsData.item(u).AttractionRating	Flex Wrap	Wrap	
GetMostVisitedAttractions		Justify Content	t Flex Start	
Home	0	Align Items	Flex Start	
MasterTevelAcentu		Align Content	Flex Start	
* GetAttraction		~ Appearance		
GetAttractionForMP		Class	Grid	
PGetAttractionForMP		Malble	True	
D Weit		Visible	True	
Images Any Platform, Default Orientations - O	Add Layout 8 Delete Layout	Invisible Mode	a Keep Space	
Carteria Contractions	4	x Enabled	True	
Attraction Show: Build	5 C II + Autr	oscroll Rows	<default></default>	
Associated Tables Specifying TravelAgency.Attracti	ons_Level_Detail_Grid1 (1 of 1)	Empty Grid Ba	ac (none)	
Attraction_DateProvider warning spc0038: There is no inde	<pre>x for order (AttractionRating); poor performance may be noticed in grid 'Gridi'. (Panel ' loss laws) Detail (2 of 2)</pre>	Empty Grid Ba	ac Image	
Category victoriation fo0001: This object	has client-side events only, no data providers will be generated. (Panel 'TravelAgency.At	Emphy Grid To		-
KB Explorer II Preferences Success: Specification		O Properties T To	oolbox	

...e como ao grid eu associo esta coleção, fará um Load por item...



...disparando, para cada um, o evento Load (que está programado aqui para produzir uma alternância entre os cards: aqueles de altura Small e aqueles de altura Large...



Ou seja, entre estes, de altura 260 e estes outros, de altura 560.



Nos grids podemos definir **múltiplos layouts** para seus itens, eles não precisam ser iguais para todos eles. E foi isso que eu fiz em meu grid. Defini dois layouts diferentes: este eu chamei de Large, e este, que é o default, que chamei de Small.

TravelAgency - GeneXus 18	de Herre Wilder Tel Tel Ide		- 0 ×
File Edit View Layout Insert Build Knowle	age Manager Window Tools Test Help		
KB Explorer 4 X	🖸 Attractions X 🔯 AttractionsCopy1 X 🎽 TravelAgencyBase X 🎽 Attractions X 🔯 Navigation View X 🛅 MasterTravelAgency X 🛅 GetMostVisite > 🗸	• Properties	¥ X
Open: Plame or Platern	Layout Rules Events Conditions Variables Documentation	General	
TravelAgency	Application Bar	Elter	×
Main Programs		~ Canyas: Attractio	nCard
Root Module	Imain lable Imai	Contenane	AttractionCard
General General		Lavout Name	large
DecimeSusteme	The most visited ATTRACTIONS & BdinformationText	Loyour Hume	conge
Deskton		Appearance	
Phone		Width	472dip
Tablet	Contact Us	Height	560dip
Files		Class	Table
images	ofino Large Tar	Background	(none)
~ 📇 u		Visible	True
RecicleBin		Invisible Mode	Keep Space
Attraction		Easthland	Tere
Attractions	8/AttractionsData.item(0).CountryName	chabled	inde
Attractions Conv.1	0 · · · · · · · · · · · · · · · · · · ·	Scroll Behavior	
Contect		Scroll Factor	1
GetHalf	exattractionsUata.item(0).AttractionName &AttractionsData.item(0).AttractionRating	Zoom Factor	0
GetMostVisitedAttractions		Scroll Attachme	Parent
Tome Home	å o b	> Layout Behavir	or
5 Information		V Control Info	
MasterTravelAgency		In Stat	Cales
GetAttraction		IS SIDE	raise
GetAttractionPorMP		 Accessibility 	
- PGetAttractionForMP		Accessible Role	
La Images		Accessible Nan	Custom
Transactions		Accessible Nan	
Attraction			
> 🛅 Associated Tables			
Attraction_DataProvider			
> 5 WorkWithWebAttraction	2		
B KB Explorer	🗌 Any Platform, Default Orientations - 🗘 Add Layout 😢 Delete Layout	Properties T Tool	lbox
Output			
:\Models\GX18\TravelAgency			

Embora pareçam idênticos, na verdade diferem em uma coisa: na altura desta tabela (que já vemos ser um canvas). A do layout chamado Large é de 560 dips, enquanto a do layout chamado Small é de 260.



Já podemos pensar nesse grid como um container flex, dessa altura, e que coloca seus itens em direção coluna, com a propriedade Wrap ativada, de modo que as duas primeiras atrações turísticas retornadas serão essas duas, que se começarmos a contá-las com 0, então ficará assim: a 0 e 1 vão para a primeira coluna, mas a 2 e 3 não, então vão para uma segunda coluna, e a 4 e 5 para uma terceira, e assim por diante.

Notem que podemos formalizar a alternância dos cards observando essas quatro, pois mais tarde o esquema será repetido. A 0 e a 3 corresponderão à altura Small; e a 1 e a 2 à altura Large.

Para seus múltiplos vale o mesmo esquema. É por isso que resolvi dessa maneira.



No Refresh coloco em 0 o contador da atração e depois calculo para cada item a ser carregado no grid, sua posição, que será o resto desse contador dividido por 4, ou seja, que será: 0, 1, 2 ou 3.

Se for 0 ou 3, peço que carregue o item com o layout Small; e se for 1 ou 2, com o layout Large.

Observem que este é o nome do grid e esta é a propriedade que indica qual é o layout do item.

NIT PINE BLOOD	Terran Barton Barton B			
KB Explorer 9 X	Mill SQLServer • Release • Less Build Build • X) -	O Properties		
Name or Pattern	Attractions A 🔄 Attractions Copyl A 📺 Traver-gencyDase A 🚎 Attractions A 🔄 Neargation view A 💽 Messer Traver-gency A 📄 GetMostVisia	General		
	Layout Rules Events Conditions Vanables Documentation			
Main Programs		In Zi Pinner		
V 😍 Root Module	Im MainTable GridAttractions F	Grid: GridAttract	Jons	
> 😚 General		Control Name	GridAttractions	
V TravelAgency	8InformationText	Collection	&AttractionsData	
OesignSystems	The most visited ATTRACTIONS	Default Action	<default></default>	
> 🝞 Desktop		Selection Type	Platform Default	
> Phone	Contact Us	Enable Multiple S	False	
Files		Pull To Refresh	False	
Images	Casen Construction	Inverse Loading	False	
~ 🖰 U		Default Selected	(2222)	
> 🛅 RecicleBin		Default Selected I	(none)	
C Attraction		 Control Info 		
AttractionData	RAMMATING Data Manual Alama	Control Type	Flex Grid	~
Attractions	o contractionsUstatiem(U).countyivame o	Auto Grow	Charts	^
AttractionsCopy1		Flex Direction	Flex Grid	
GetHalf	8AttractionsData.item(0).AttractionName 8AttractionsData.item(0).AttractionRating	Flex Wrap	Grid	
GetMostVisitedAttractions		Justify Content	Horn Stal Grid	
Tome	d	Alian Items	Image Man	
5 Information		Allen Content	image map	
MasterTravelAgency		Align Content	Legacy Grid	
GetAttraction		~ Appearance	Magazine Viewer	~
GetAttractionForMP		Class	Grid	
PGetAttractionPomPP		Visible	True	
images		Invisible Mode	Keep Space	
Transactions		Enabled	True	
Attraction		Rows	<default></default>	
> 🛅 Associated Tables		Empty Grid Bar	(0000)	
Attraction_DataProvider		Empty Grid Bac	(none)	
A STATE A STAT		Empty Grid Bac	Image	

Se observarmos agora a seção **Control Info** do grid, veremos que especifiquei aqui que este não é um grid comum, mas sim um **Flex**. Vejam todas as opções que temos.

Esta corresponde ao default.

	😹 🕨 NETSQLServer 🔹 Release 🔹 Tests Build Build 🔹 😓 :		
B KB Explorer 9 X	🛅 Attractions X 🛅 AttractionsCopy1 X 📓 TravelAgencyBase X 🦉 Attractions X 👩 Navigation View X 📑 MasterTravelAgency X 🛅 GetMostVisite	> Properties	9 X
pen: Name or Pattern	Layout Rules Events Conditions Variables Documentation	General	
TravelAgency	Application Bay	Eller Filter	×
> Main Programs		Grid: Grid1	^
Root Module	4 mainTable Estimat	Control Name	Grid1
Seneral		Collection	
 S DesignSystems 	The most visited ATTRACTIONS & BanformationText	Default Action	
> M Desktop		Default Action	 defauit>
> Phone		Selection Type	Platform Default
> 🕎 Tablet	Contact Us	Enable Multiple S	ś False
Files		Pull To Refresh	False
Images	Control Contro	Inverse Loading	False
~ 🗁 UI	CountryName	Default Selected	(none)
> C RecicleBin		Controlledo	10000
Attraction		Control Into	
AttractionData	AttractionName AttractionPation	Control Type	Grid
C Attractions	Atusconivarie Atusconi aurig	Auto Grow	Charts ^
Contect	5	Scroll Direction	r Flex Grid
GetHalf		Snap To Grid	Grid
GetMostVisitedAttractions		Items Layout N	Horizontal Grid
To Home		Announce	
5 Information		Appearance	Image Map
T MasterTravelAgency		Class	Legacy Grid
E GetAttraction		Visible	Magazine Viewer 🗸 🗸
GetAttractionForMP		Invisible Mode	Keep Space
PGetAttractionForMP		Enabled	True
Wait		Rows	cdefaults
Images		Freedor Cold De	- Access
Transactions		Empty Grid Bai	c (none)
Attraction		Empty Grid Ba	c Image
Attraction DataProvider		Empty Grid Tex	¢
> WorkWithWebAttraction		Empty Grid Tex	x TextBlock
KB Explorer 11 Preferences	Any Platform, Default Orientations - 🗘 Add Layout 🧐 Delete Layout	O Properties T To	olbox

Vejamos a do grid que inserimos em Attractions.

A MARTINIAN A MARTINIA				
3 KB Explorer 4 X	🚺 Attractions X 🛄 AttractionsCopy1 X M TravelAgencyBase X M Attractions X 🔯 Navigation View X 📑 MasterTravelAgency X 🎽 GetMostVisit	>> D Properties		* *
ppen: Name or Pattern	Layout Rules Events Conditions Variables Documentation	General		
TravelAgency		Z Y Filter		2
Root Module	Imm MainTable EGridAttractions	Grid: GridAttract	tions	
> 🚱 General		Control Name	GridAttractions	
TravelAgency	a faith and the second s	Collection	&AttractionsData	
	The most visited ATTRACTIONS Commonwealth Commonwe	Default Action	<default></default>	
> 😭 Desktop		Selection Type	Platform Default	
> Phone	Contact Us	Enable Multiple S	C Falce	
> Tablet		Pull To Refresh	Ealca	
Files	0	Pull to Kellesh	raise	
	Smar C	Inverse Loading	False	
> T RecicleBin		Default Selected	(none)	
Co Attraction		Control Info		
AttractionData		Control Type	Flex Grid	~
To Attractions	o & &AttractionsDataJtem(0).CountryName o	Auto Grow	Charts	^
AttractionsCopy1		Flex Direction	Flex Grid	
Contact	&AttractionsData.item(0).AttractionName &AttractionsData.item(0).AttractionRating	Flex Wran	Grid	
GetMostVisitedAttractions		hustifu Contant		
Home		Justity Content	Horizontal Gpd	
5 Information		Align Items	Image Map 5	
MasterTravelAgency		Align Content	Legacy Grid	
E GetAttraction		~ Appearance	Magazine Viewer	~
GetAttractionForMP		Class	Grid	
PGetAttractionForMP		Visible	True	
Wait		Invisible Mode	Keen Snace	
images		Fachlad	Teres	
Transactions		Enabled	Irue	
Associated Tables		Rows	<default></default>	
Attraction_DataProvider		Empty Grid Bac	c (none)	
		Empty Grid Bac	c Image	
		Empty Grid Bac	c Image	

Aqui eu claramente mudei para **Flex**. Mas observem também que aparece o **Horizontal**, o que já podemos tentar para quando quisermos implementar os outros carrosséis.

The second second state of the second				
				_
B KB Explorer P X	🖸 Attractions X 🔽 AttractionaCopy1 X 🧕 TravelAgencyBase X 🧕 Attractions X 🙍 Navigation View X 🛅 MasterTravelAgency X 😫 GetMostVisite	Properties		₹ ×
Ipen: Name or Pattern	Layout Rules Events Conditions Variables Documentation	General		
TravelAgency	* Application Bar	E 2 Filter		>
> C Main Programs		🗸 🗸 Grid: GridAttract	tions	1
Root Module	Imainfable Imainfable Imainfable Imainfable	Control Name	GridAttractions	
SP TravelAgency		Collection	&AttractionsData	
SesignSystems	The most visited ATTRACTIONS & difformationText	Default Action	<default></default>	
> 😭 Desktop		Enlaction Turns	Distform Default	
> 😭 Phone		Selection type	Plation Delauit	
> 🕎 Tablet	Contact US	Enable Multiple S	halse	
Files		Pull To Refresh	False	
Images	GRD Small-	Inverse Loading	False	
V 🔂 U		Default Selected	(none)	
Attraction		Control Info		
AttractionData		Control Type	Flex Grid	~
Attractions	o & & & & & & & & & & & & & & & & & & &	Auto Grow	Ealea	
AttractionsCopy1		Flav Direction	Caluma	
Contact	&AttractionsData.item(0).AttractionName	Flex Direction	Column	
GetHalf	(oAttractionsuata.item(o)AttractionRating	Flex Wrap	Wrap	
GetMostVisitedAttractions		Justify Content	Flex Start	
L0 Home	0 0 0	Align Items	Flex Start	
MasterTravelAgency		Align Content	Flex Start	
CetAttraction		~ A Serance		
CetAttractionForMP		65	Grid	
PGetAttractionForMP		Class	and a	
🕽 Wait		Visible	Irue	
🔛 Images		Invisible Mode	Keep Space	
Transactions		Enabled	True	
V I Attraction		Rows	<default></default>	
Associated Tables		Empty Grid Bac	(none)	
Attraction_DataProvider		Empty Grid Bac	Image	
the state of the s				

Vejam também que, ao ter escolhido o tipo de grid **Flex**, aparecem as propriedades típicas de um container flex: Flex Direction, Flex Wrap, justificação, alinhamento.

nclock Constructions Constructions </th <th>X Attractions X 🖸 Navigation View X 📑</th> <th>MastarTraval&nancy X CatMontViets</th> <th></th>	X Attractions X 🖸 Navigation View X 📑	MastarTraval&nancy X CatMontViets	
Rules Events Conditions Variables Documentation	X Attractions X 🔄 Navigation View X 📑	MasterTravalAnancy X P CatMnetViets > Properties	
Rules Events Conditions Variables Documentation			4 .
		General Day 61 57 Jan	
		1 ZI 🌾 Filter	
MainTable		V Table: MainTal	sle
mannable		Control Name	MainTable
		~ Appearance	
The most visited ATTRACTIONS	&InformationText	Columns Stv	e 100%
		Pour Stule	712dio:952dia
		Nows Style	Vieup, Secup
Contact Us		Width	100% 45
		Height	100%
	Smat*	Auto Grow	True
•		Class	
		Background	(none)
		Vicible	True
e &Attractions	Data.item(0).CountryName	terisbie te	to Maria Carao
		Invisible Mo	le Keep space
& AttractionsData item(0) AttractionName		Enabled	True
&Attractions	sData.item(0).AttractionRating	Scroll Behav	ior
		Scroll Factor	1
		Zoom Factor	0
		Scroll Attach	mi Parent
		Form	
		- Point	1
		Form Class	Form
		Enable Head	er False
		> Layout Beha	wior
		Control Info	r -
		Is Slot	False
		Arrardibility	10000
		Accessionity	
		Accessible R	ole Main
	MainTable The most visited ATTRACTIONS Contact Us Attractions AttractionsData.item(0).AttractionName BattractionsData.item(0).AttractionName BattractionSData.item(0).AttractionSData.item(0).AttractionSData.item(0).AttractionSData.item(0).AttractionSData.item(0).AttractionSData.item(0).AttractionSData.item(0).AttractionSData.item(0).AttractionSData.item(0).AttractionSData.item(0).AttractionSData.item(0).AttractionSData.item(0).AttractionSData.item(0).AttractionSData.item(0).AttractionSData.item(0).AttractionSData.item(0).	MainTable The most visited ATTRACTIONS Contact Us	MainTable The most visited ATTRACTIONS BinformationText Columns Syle Contact Us Contact Us Contact Us Background Visite Nvisite Auto Grow Class Background Visite Invisite Mode Grow Class Background Visite Invisite Background Invisite B

Como a soma da altura de um card Small e um Large é de 260 + 560, ou seja, 820, e o grid tem Auto Grow definido como false, e a linha em que está é de 852 dips...



...(não sei por quê coloquei esse valor, quando o espaço que me falta para os 820 dips é o de separação dos cards, algo que ainda não implementei, mas que já vemos que é de 11 pixels, e também tenho que adicionar, como veremos no próximo vídeo, o espaço da barra de scroll)...

File Edit View Layout Insert Build Knowledge Mar	nager Window Tools Test Help		
□□□ 20000, 番曲×・	NETSQLServer • Release • Tests Build Build •		
🔋 KB Explorer 🤤 🛪 🐹	Attractions X 📅 AttractionsCopy1 X 📓 TravelAgencyBase X 📓 Attractions X 👩 Navigation View X 📑 MasterTravelAgency X 🚞 C	SetMostVisite > I Properties	* *
pen: Name or Patern	out Rules Events Conditions Variables Documentation	General	
TravelAgency ^		🔠 🛃 🌾 Filter	>
> 💽 Main Programs	pplication Bar	Table: MainTable	1
V 🕐 Root Module	I MainTable	Control Name M	lainTable
> 😚 General o		contorivante	
V StravelAgency	The most visited ATTRACTIONS & & & & & & & & & & & & & & & & & & &	Appearance	
DesignSystems		Columns Style 10	.0%
Desktop		Rows Style 71	12dip;800dip
Tablet	Contact Us	Width 10)0%
Files		Height 10	0%
images G	RID Small*	Auto Grow Tr	ue
~ 🖰 u		Claur	
> C RecicleBin		Performent for	
C Attraction		Background (no	one)
AttractionData	8-AttractionsData item/0) CountroName	Visible Tru	ue
C Attractions	ContractionsData.nem(0).coundyname	Invisible Mode Ke	sep Space
Contect		Enabled Tru	ue
Di GetHalf	&AttractionsData.item(0).AttractionName &AttractionsData.item(0).AttractionRating	Scroll Behavior	
GetMostVisitedAttractions		Scroll Factor 1	
To Home		Zoom Factor 0	
5 Information		Coolit Attacher D	
MasterTravelAgency		Scroll Attachme Par	rent
GetAttraction		~ Form	
GetAttractionForMP		Form Class Fo	irm
PuetAttractionPomP		Enable Header Fa	ilse
imanes		> Layout Behavior	
		~ Control Info	
Attraction		It Slot Ea	lea
> C Associated Tables		15 3101 11	130
Attraction_DataProvider		Accessibility	
> 🜄 WorkWithWebAttraction		Accessible Role Ma	ain
KB Explorer 🚻 Preferences 🗌 An	y Platform, Default Orientations + 🗘 Add Layout 🥸 Delete Layout	Properties T Toolbox	ĸ

...mas vamos ver o que acontece se eu colocar um valor menor que a soma das alturas dos cards, como 800, por exemplo...



Não há espaço suficiente para colocar dois cards por coluna, então acontece isso...

KR Evolver a V		N PT	
Name or Pattern	Lo Attractions X Lo AttractionsCopyl* X M TravelAgencybase X M Attractions X D Navigation View X og Master TravelAgency X 🔤 GetMostVisi	General	
TravelAgency	Layout * Rules Events Conditions Variables Documentation	Filter	X
Main Programs			1
V 😍 Root Module	4 I MainTable GridAttractions	F Grid. GridAttract	aons
> 😭 General		Control Name	GridAttractions
V TravelAgency	Renormation Text	Collection	&AttractionsData
✓ InesignSystems	The most visited at INACTIONS	Default Action	<default></default>
> C Desktop		Selection Type	Platform Default
Tablet	Contact Us	Enable Multiple S	False
Files		Pull To Refresh	False
Images	0 5mm ² €0	Inverse Loading	False
~ 🗇 u		Default Selected	(acce)
> C RecicleBin		Default Selected	(none)
Attraction		Control Info	
AttractionData		Control Type	Flex Grid
Attractions	o (8AttractionsData.item(0).CountryName o	Auto Grow	False
AttractionsCopy1		Flex Direction	Column
Contact	&AttractionsData.item(0).AttractionName & &AttractionsData.item(0).AttractionRating	Flex Wrate	No Wrap
GetMostVisitedAttractions		Justify Content	Elev Start
Home		Justry Content	
5 Information		Align Items	Flex Start
MasterTravelAgency		Align Content	Flex Start
E GetAttraction		Appearance	
GetAttractionForMP	1	Class	Grid
PGetAttractionForMP		Visible	True
Wait	And Ristown Default Originations - 0 Add Javant O Default Javant	Invisible Mode	Keen Space
images	Autoriti, Delauri Orientations - V Auto Layout V Delete Layout	Eashlad	Tere
	e Output 9	× Enabled	Inde
Associated Tables	Show: Build	Rows	<default></default>
Attraction_DataProvider	Success: Execution Calculation Mobile Tangets for Enorteend (Econt and)	Empty Grid Bac	(none)
> 5 WorkWithWebAttraction	Angular Execution started	Empty Grid Bac	: Image

Em resumo, se o Grid não tiver Auto Grow, então a quantidade de itens que serão colocados em cada coluna dependerá da altura de cada item e da altura da célula na qual o grid está localizado.

Lembremos que as colunas são produzidas devido ao Wrap. Se não houvesse Wrap, seria uma única coluna, já que a direção é Column.



Não sei se percebem, mas temos uma dupla barra de scroll. Pressionarei F12 para ver melhor.

Temos barra de scroll vertical do grid. E a barra de scroll do panel.



Em vez disso, se tivermos Wrap na propriedade... e definirmos para a altura da linha, por exemplo, não sei, 850 dips, por enquanto...

Vemos que temos a barra de scroll vertical da página e agora para o grid uma barra de scroll horizontal (em vez de vertical).

E também, claro, estão entrando 2 cards por coluna.

Bom, vou parar este vídeo aqui para que não fique pesado. E no próximo veremos com algum detalhe a implementação do layout de cada card do grid, para depois retornar sobre o grid propriamente dito.

Espero por vocês.



training.genexus.com

GeneXus by Globant