



Embarcadero Conference

TMS WEB CORE: Um revolucionário paradigma de desenvolvimento Web com Delphi

Wagner Landgraf
TMS Software

Embarcadero

Conference



Sobre

TMS Software

- Fundada em 1995
- 23 anos fornecendo componentes Delphi
- Estabilidade, suporte, compatibilidade, confiabilidade
- Delphi 1 -> Delphi 7 -> Delphi 2009 -> XE -> Tokyo

Wagner Landgraf

- 23 anos com experiência em Delphi
- Responsável pela linha de produtos TMS Business – Aurelius, XData, RemoteDB, Scripter.

Plataformas Delphi / TMS

Windows 16-bit (Delphi 1)

Windows 32-bit

Windows 64-bit

Mac OS

iOS

Android

Linux

...

Web?



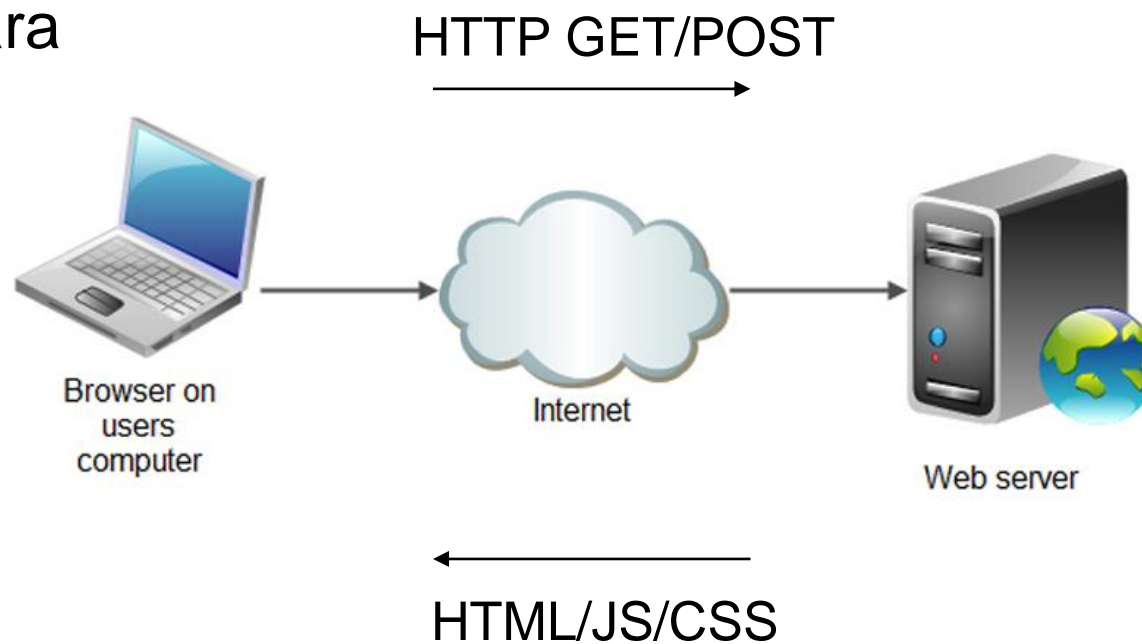
Proposta

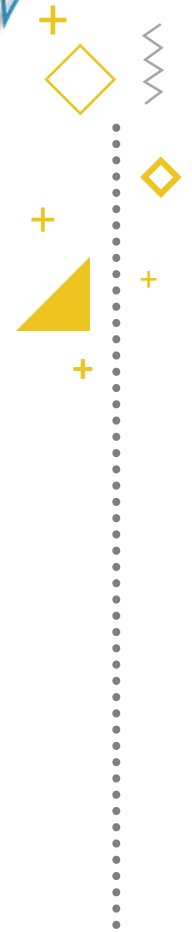
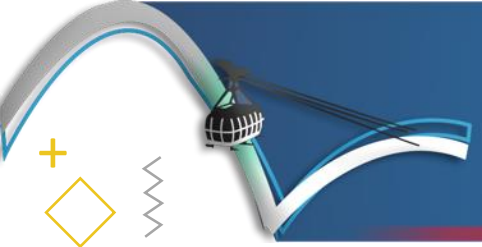
- Aplicação SPA no browser puramente em HTML/JS
- Programar para o browser usando Pascal
- Usar framework RAD e orientada a objetos
- Reaproveitar conhecimento em Pascal, VCL, RTL
- Liberdade pra usar frameworks e componentes JavaScript existentes
- Utilizar código JavaScript diretamente se necessário (o código “compilado” não é binário, é JavaScript)
- Deploy simples – apenas HTML e JS, não há código binário
- Programação de dados com Datasource e Dataset, mas com TMS XData tudo é JSON, REST, multicamadas e stateless

Arquitetura

Como funciona?

Soluções Delphi para
Web “tradicionais”:





Como funciona?

Tecnologia TMS:



Como funciona?

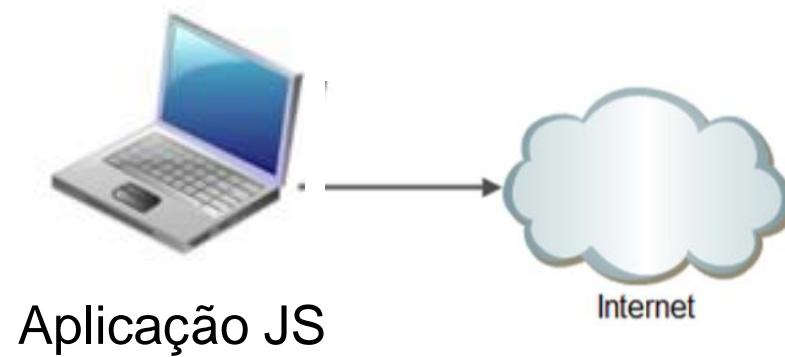
Tecnologia TMS:



Aplicação JS

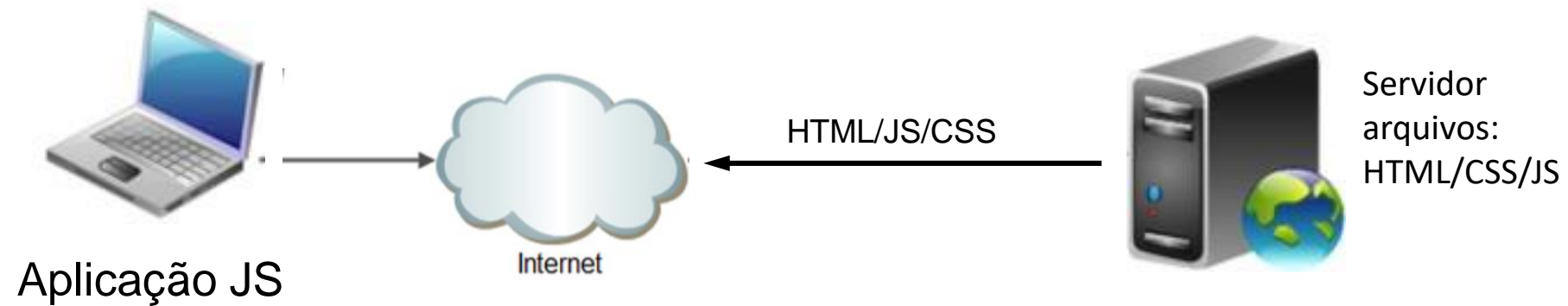
Como funciona?

Tecnologia TMS:



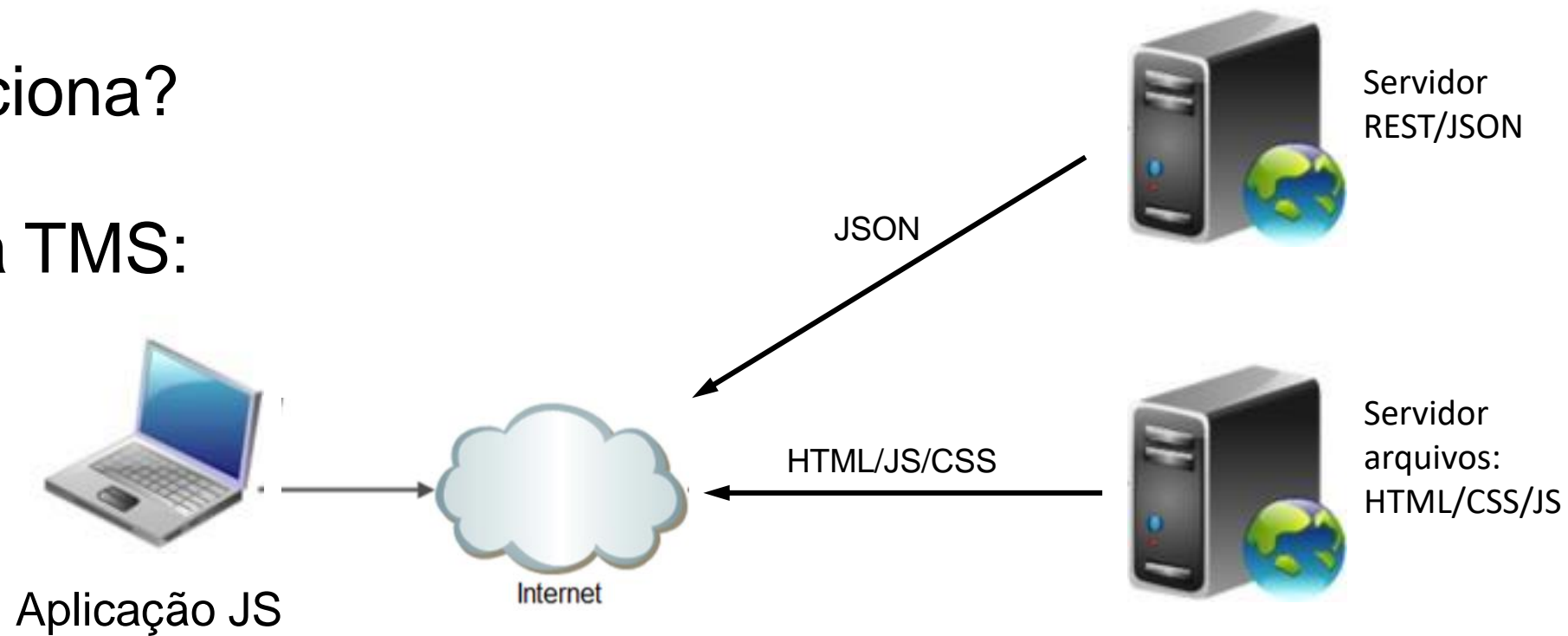
Como funciona?

Tecnologia TMS:



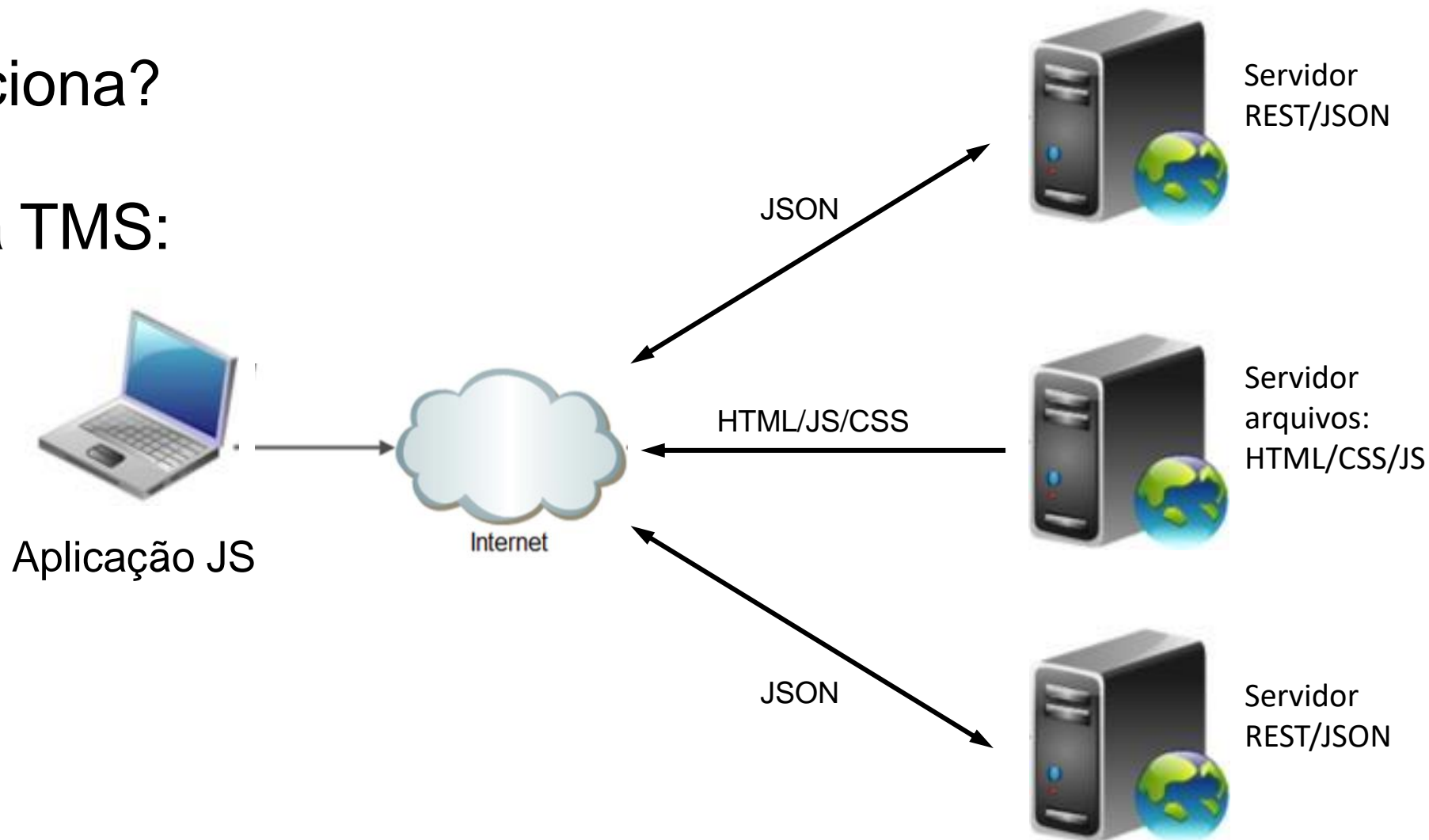
Como funciona?

Tecnologia TMS:



Como funciona?

Tecnologia TMS:



Backend: Qualquer um
Backend ideal:
TMS XData



Demonstração

Demonstração

Aplicativo de Avaliação

(desenvolvimento e deploy ao vivo)

Aplicação “real” XData Music demo

<https://app.devgems.com/xdata/music/app>

Desenvolvimento RAD

TMS XData Web App Generator

Gerador automático do frontend WEB

Servidor + Web Client a partir do banco em minutos

New TMS XData Web Application

New TMS XData Web-Client Application
Creates a application allowing you to perform CRUD operations against selected entities from an xdata server model

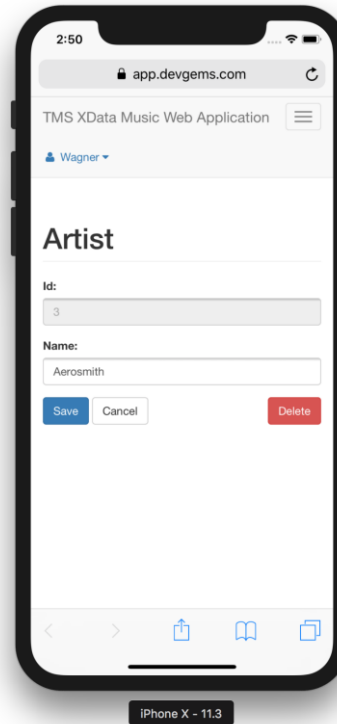
Enter the URL of xdata server to request the model. If necessary, also enter the request headers (authentication information, for example).

Server Address:

Root Url: Test Connection

Set Request Headers...

Previous Next Cancel



TMS XData Music Web Application

Home

Entities

- Artist
- Genre
- Album
- Track

Album

New

Show 10 entries Search:

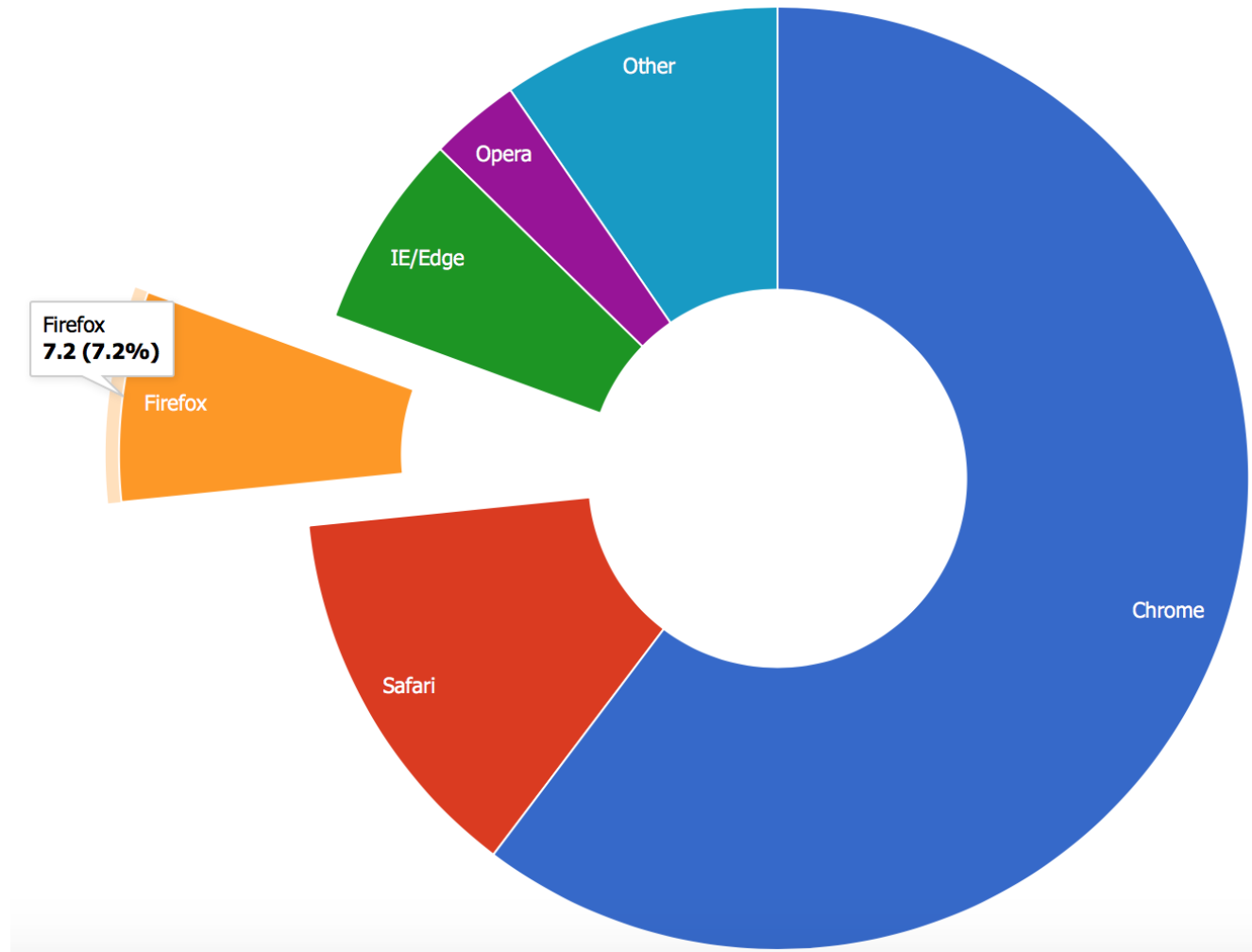
Id	Name	Artist.Name	Actions
1	For Those About To Rock We Salute You	AC/DC	Edit
2	Balls to the Wall	Accept	Edit
3	Restless and Wild	Accept	Edit
4	Let There Be Rock	AC/DC	Edit
5	Big Ones	Aerosmith	Edit
6	Jagged Little Pill	Alanis Morissette	Edit
7	Facelift	Alice In Chains	Edit
10	Audioslave	Audioslave	Edit
11	Out Of Exile	Audioslave	Edit
13	The Best Of Billy Cobham	Billy Cobham	Edit

Showing 1 to 10 of 184 entries

Previous 1 2 3 4 5 6 ... 19 Next

Laboratório TMS

Google Charts



Laboratório TMS

Tensor Flow: Inteligência Artificial






Laboratório TMS

ExtJS

Load

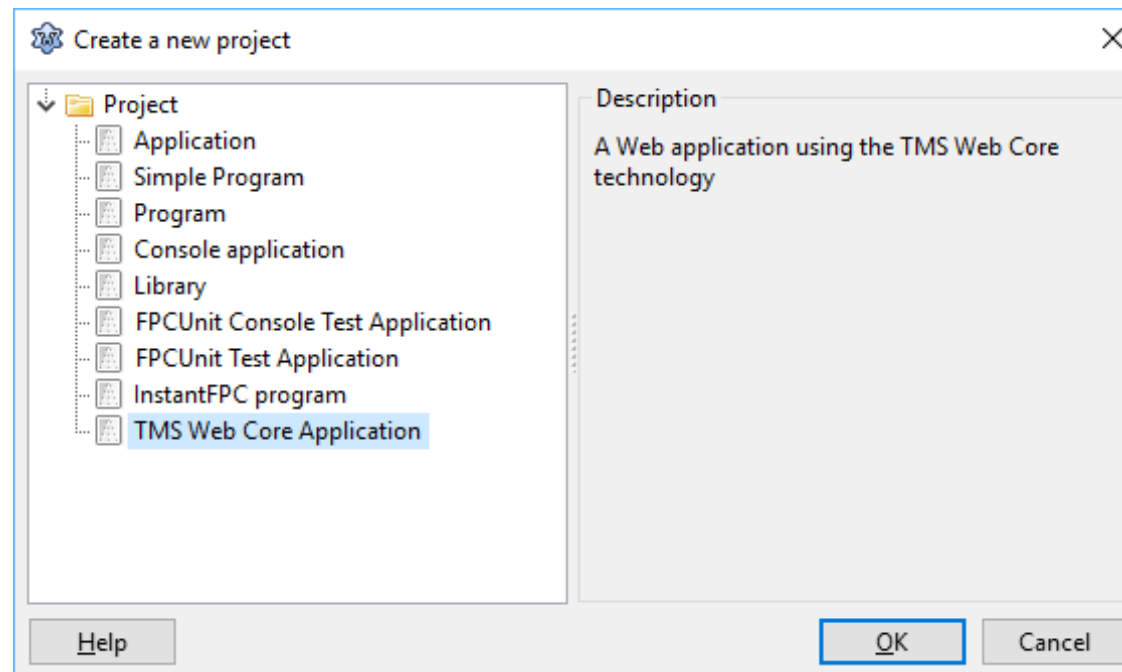
Load the Fishfacts JSON dataset in the ExtJS grid

Fish Facts

No	Category	Common...	Species N...	Length(cm)	Length (l...	Picture	Notes
90020	Triggerfish		listoide...	50.00	19.69		Also known as the big spotted triggerfish. Inhabits outer reef areas and feeds upon crustaceans and mollusks by crushing them with powerful teeth. They are voracious eaters, and divers report seeing the clown triggerfish devour beds of pearl oysters. Do not eat this fish. According to an 1878 account, "the poisonous flesh acts primarily upon the nervous tissue of the stomach, occasioning violent spasms of that organ, and shortly afterwards all the muscles of the body. The frame becomes rocked with spasms, the tongue thickened, the eye fixed, the breathing laborious, and the patient expires in a paroxysm of extreme suffering." Not edible. Range is Indo-Pacific and East Africa to Somoa.
90030	Snapper	Red Empe...	Lu		23.62		Called seaperch in Australia. Inhabits the areas around lagoon coral reefs and sandy bottoms. The red emperor is a valuable food fish and considered a great sporting fish that fights with fury when hooked. The flesh of an old fish is just as tender to eat as that of the very young. Range is from the Indo-Pacific to East Africa.
90050	Wrasse	Giant Mao...	Cheilinus ...	229.00	90.16		This is the largest of all the wrasse. It is found in dense reef areas, feeding on a wide variety of mollusks, fishes, sea urchins, crustaceans, and other invertebrates. In spite of

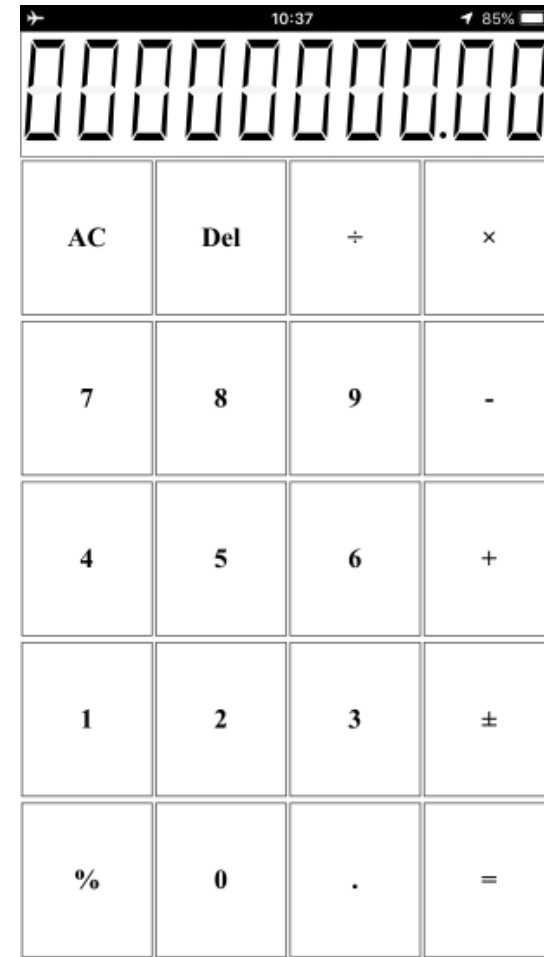
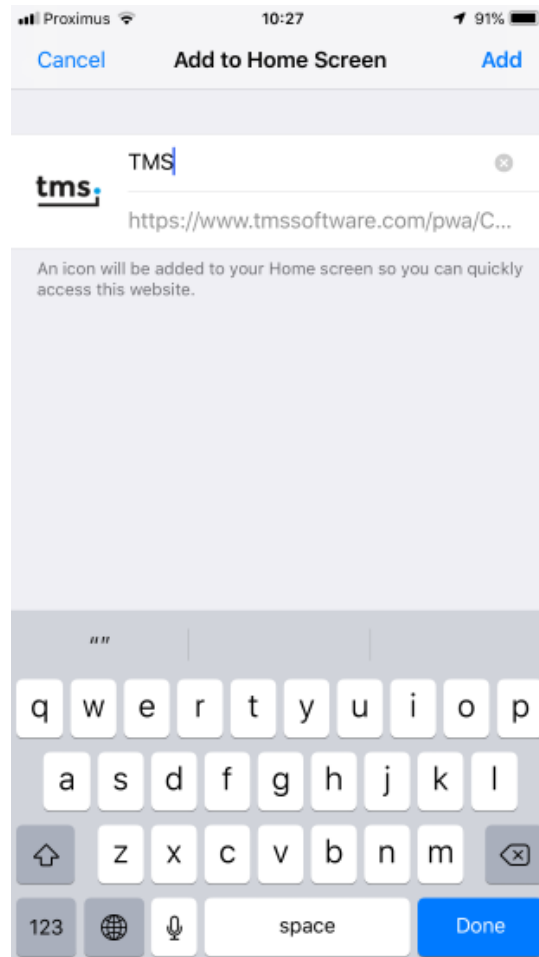
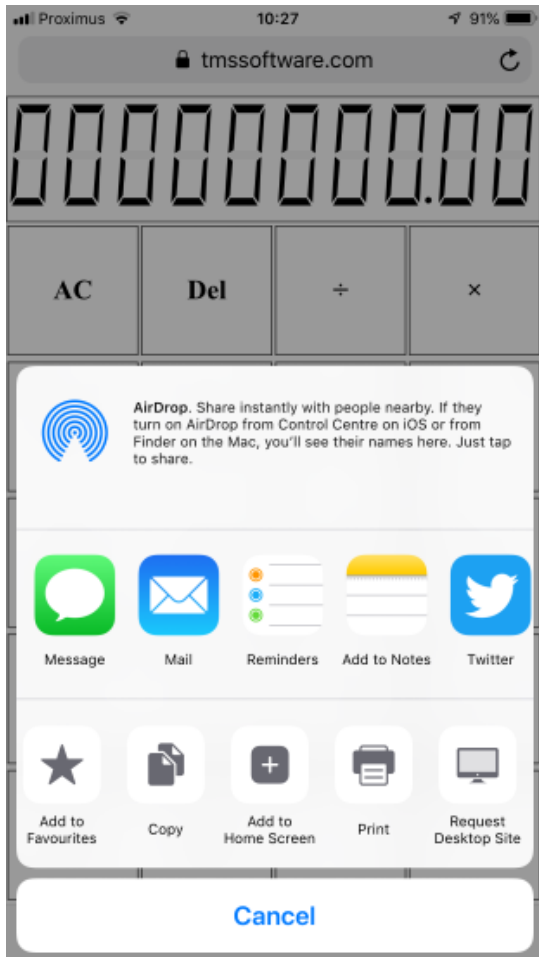
Laboratório TMS

Lazarus



Laboratório TMS

PWA – Progressive Web App



Laboratório TMS

Form Designer no Browser

TMS Software | Blog | Visiting the TMS Web Project

Not secure | www.tmssoftware.biz/tmsweb/demos/ComponentExplorer/

TMS WEB Core: Visual Component Explorer

☒ Edit Mode ☒ Snap To Grid

TForm46_TXDataWebConnection80: TXDataWebConnection

Name	Value
Connected	True
DesignData	(TXDataWebConnectionDesignData)
Name	TForm46_TXDataWebConnection80
Tag	0
URL	https://app.devgems.com/music

Genre	Id	Name	Composer	Milliseconds
null	1	Black Dog	Jimmy Pag...	296672
null	2	Rock & Roll	Jimmy Pag...	220917
null	3	The Battle ...	Jimmy Pag...	351555
null	4	Stairway to...	Jimmy Pag...	481619
null	5	Misty Moun...	Jimmy Pag...	278857
null	6	Four Sticks	Jimmy Pag...	284447
null	7	Going to C...	Jimmy Pag...	215693
null	8	When the L...	Jimmy Pag...	427702
null	9	Achilles Las...	Jimmy Pag...	625502
null	10	For Your Life	Jimmy Pag...	384391
null	11	Royal Orlea...	John Bonh...	179591
null	12	Nobody's F...	Jimmy Pag...	376215

Tool Palette

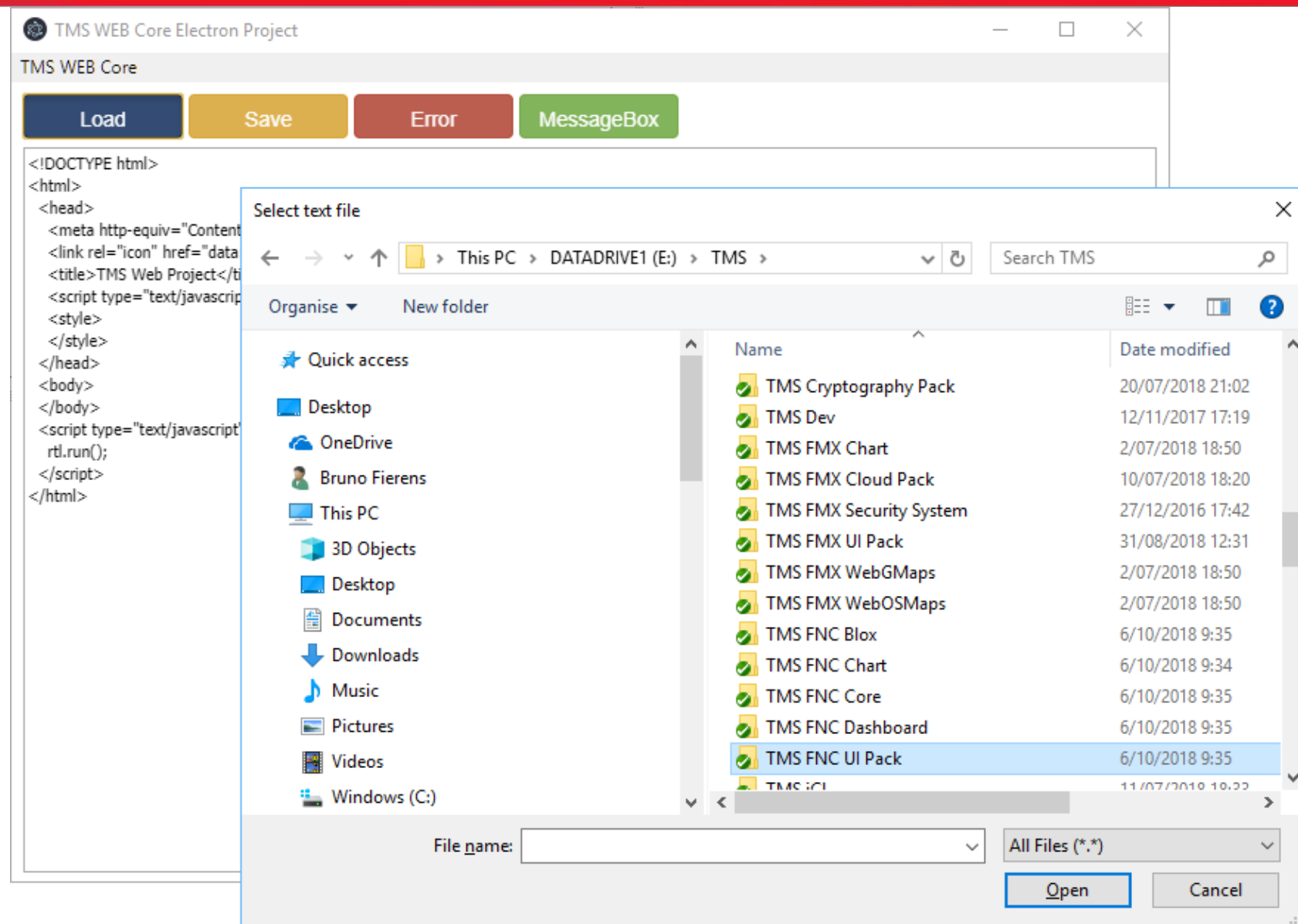
- TTMSFNCPlanner
- TTMSFNCPlannerDatabaseAdapter
- TTMSFNCRadioGroup
- TTMSFNCRadioGroupPicker
- TTMSFNCRibbon
- TTMSFNCSrollBar
- TTMSFNCStrokeKindPicker
- TTMSFNCStrokeKindSelector
- TTMSFNCTableView
- TTMSFNCTabSet
- TTMSFNCToolBar
- TTMSFNCTreeView

TMS Web

- TWebBitBtn
- TWebBrowserControl
- TWebButton
- TWebCheckBox
- TWebColorPicker
- TWebComboBox
- TWebDateTimePicker
- TWebEdit
- TWebGoogleDrive
- TWebGoogleMaps
- TWebGridPanel
- TWebGroupBox
- TWebHTMLContainer

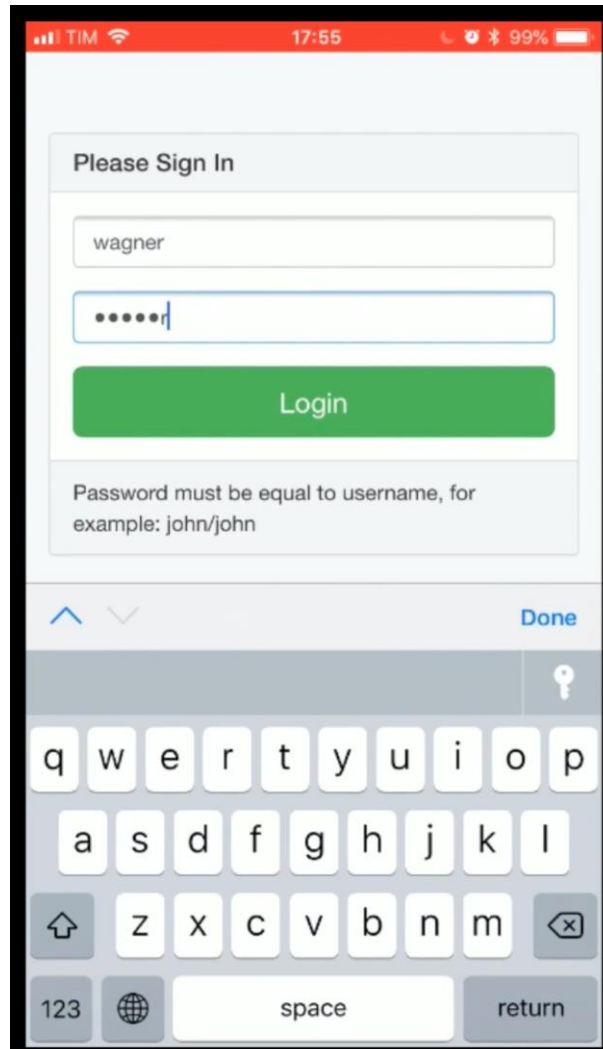
Laboratório TMS

Aplicação Desktop (Electron)



Laboratório TMS

Aplicação Mobile (PhoneGap)





Referências

TMS Web Core: <http://web.tmssoftware.com>

TMS Business (XData): <http://biz.tmssoftware.com>

Link Conference: <http://conf2018.devgems.com>

TMS Lab Series 1: <https://www.tmssoftware.com/Site/blog.asp?post=490>

TMS Lab Series 2: <https://www.tmssoftware.com/Site/blog.asp?post=497>

XData e Web Core: <https://www.tmssoftware.com/Site/blog.asp?post=470>

Youtube TMS: <https://www.youtube.com/tmssoftwaretv>

Youtube TMS Brasil: <https://www.youtube.com/tmssoftwarebrasil>

OBRIGADO



<http://www.tmssoftware.com>

<http://conf2018.devgems.com>

info@tmssoftware.com

Embarcadero

Conference





Embarcadero Conference