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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?

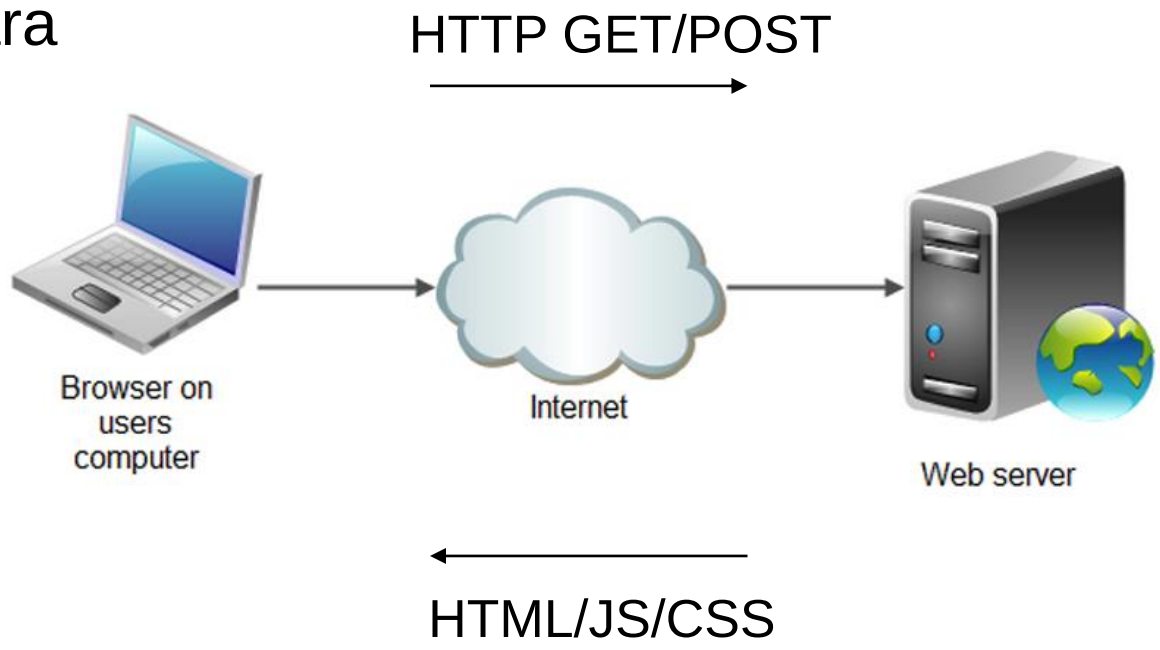
Proposta

- 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:

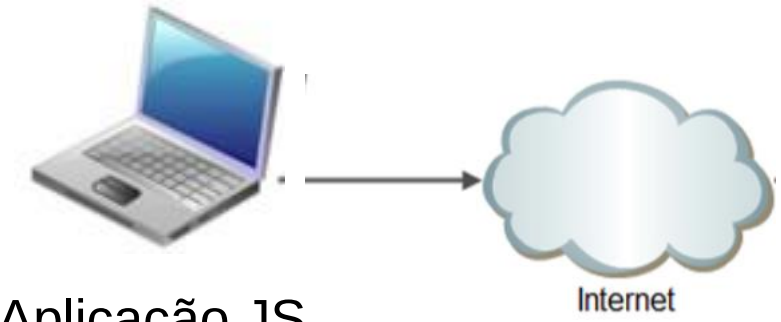
Como funciona?

Tecnologia TMS:

Aplicação JS

Como funciona?

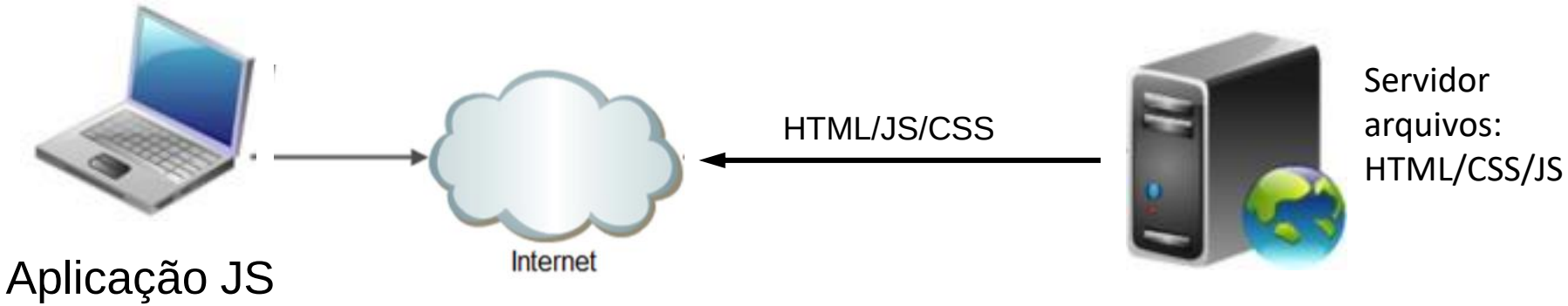
Tecnologia TMS:



Aplicação JS

Como funciona?

Tecnologia TMS:



Como funciona?

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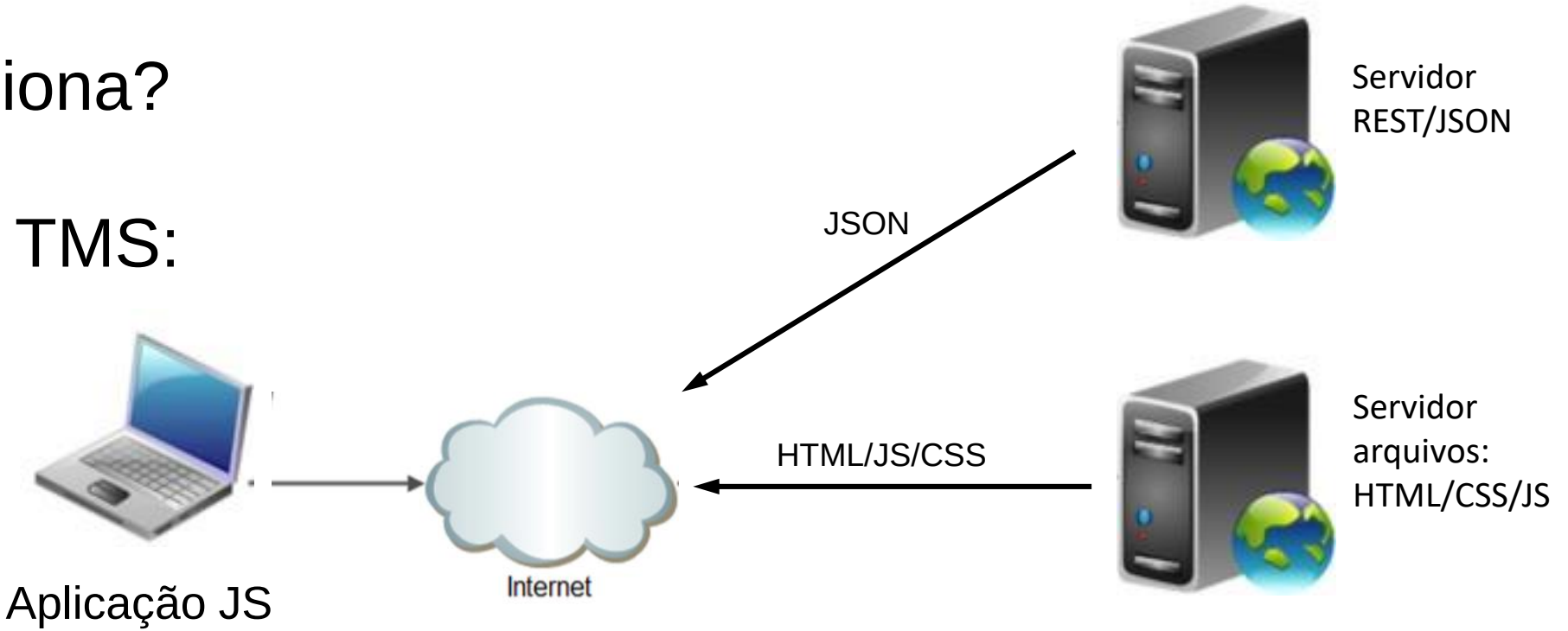

Como funciona?

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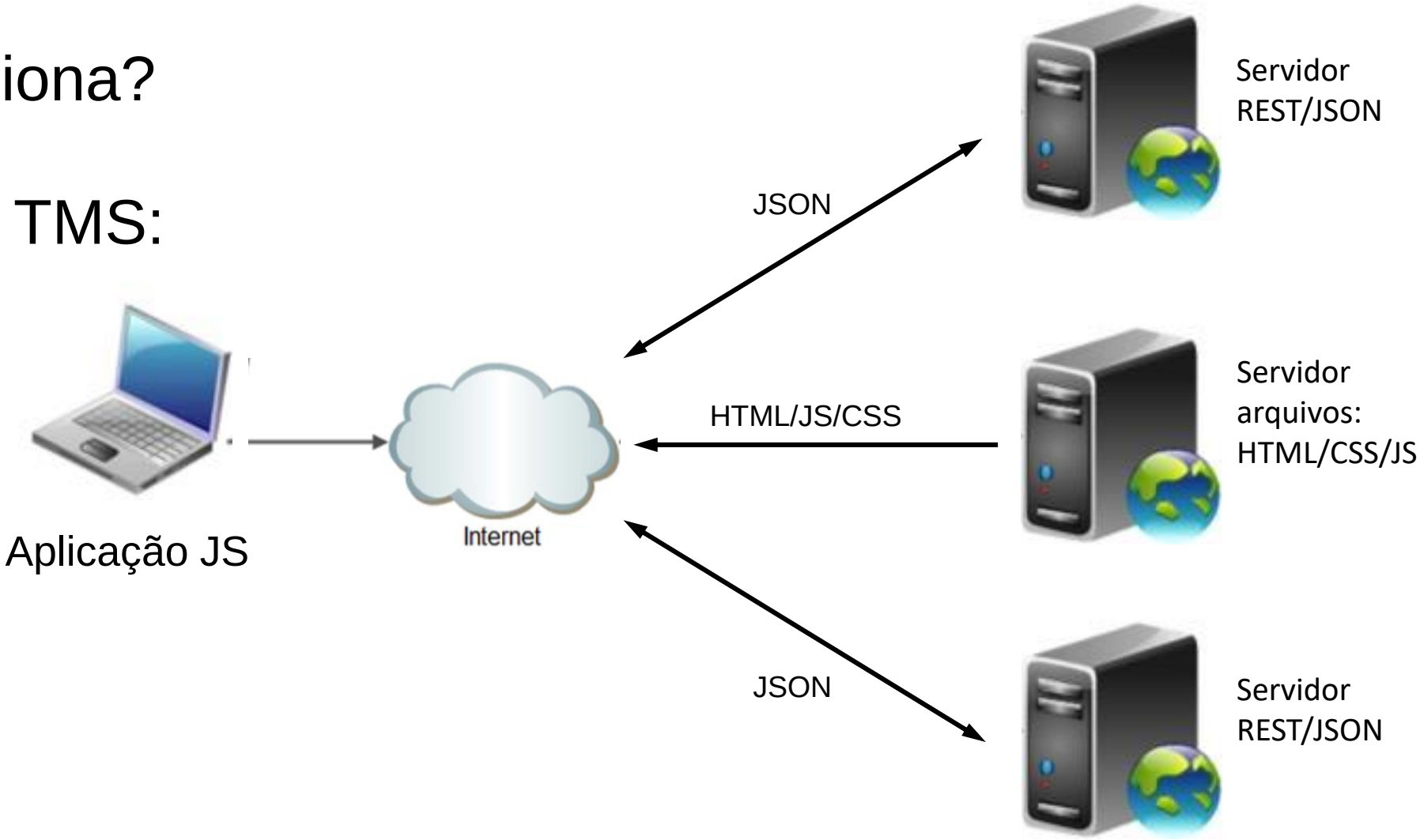


Backend

Backend: Qualquer um

Backend ideal:

TMS XData

Demonstração
Aplicativo de Avaliação

(desenvolvimento e deploy ao vivo)

Demonstração

Aplicação “real”

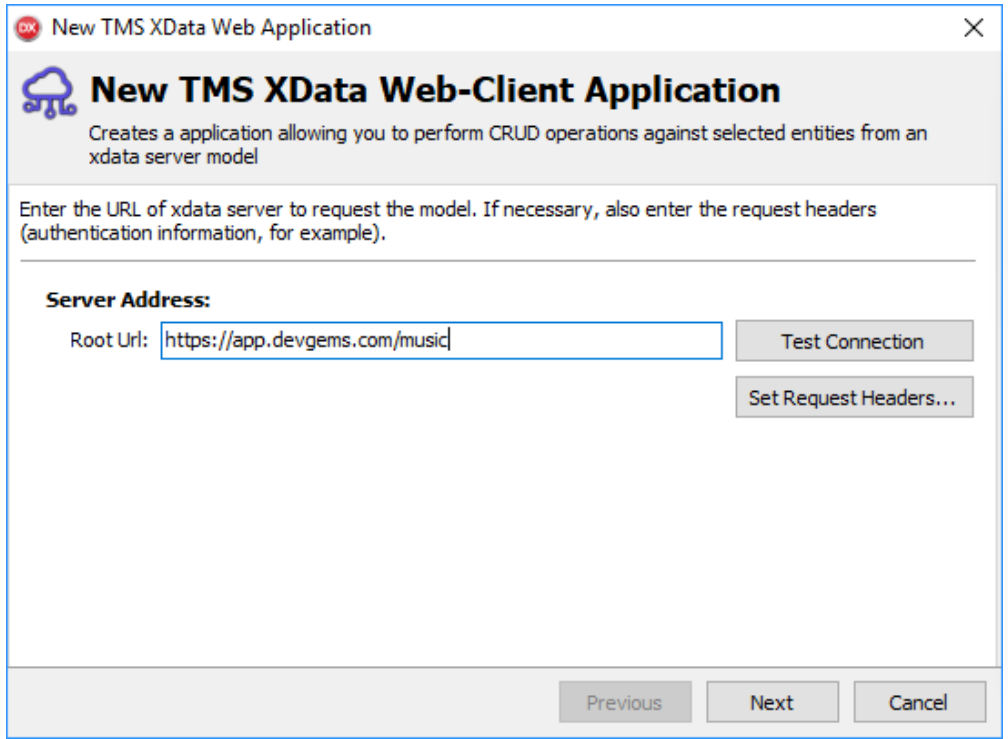
XData Music demo

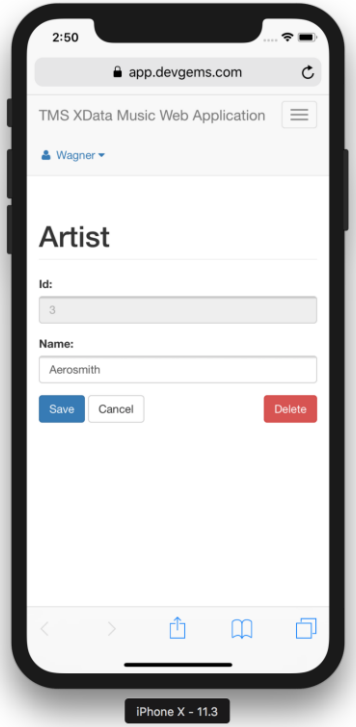
https://app.devgems.com/xdata/music/app

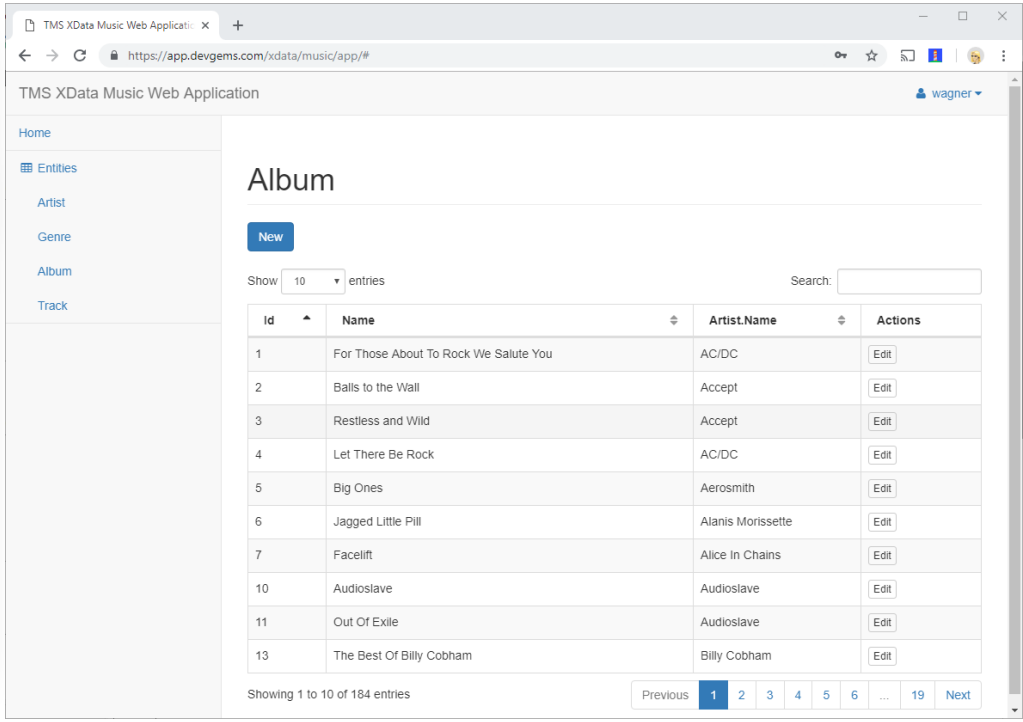
TMS XData Web App Generator

Gerador automático do frontend WEB

Servidor + Web Client a partir do banco em minutos

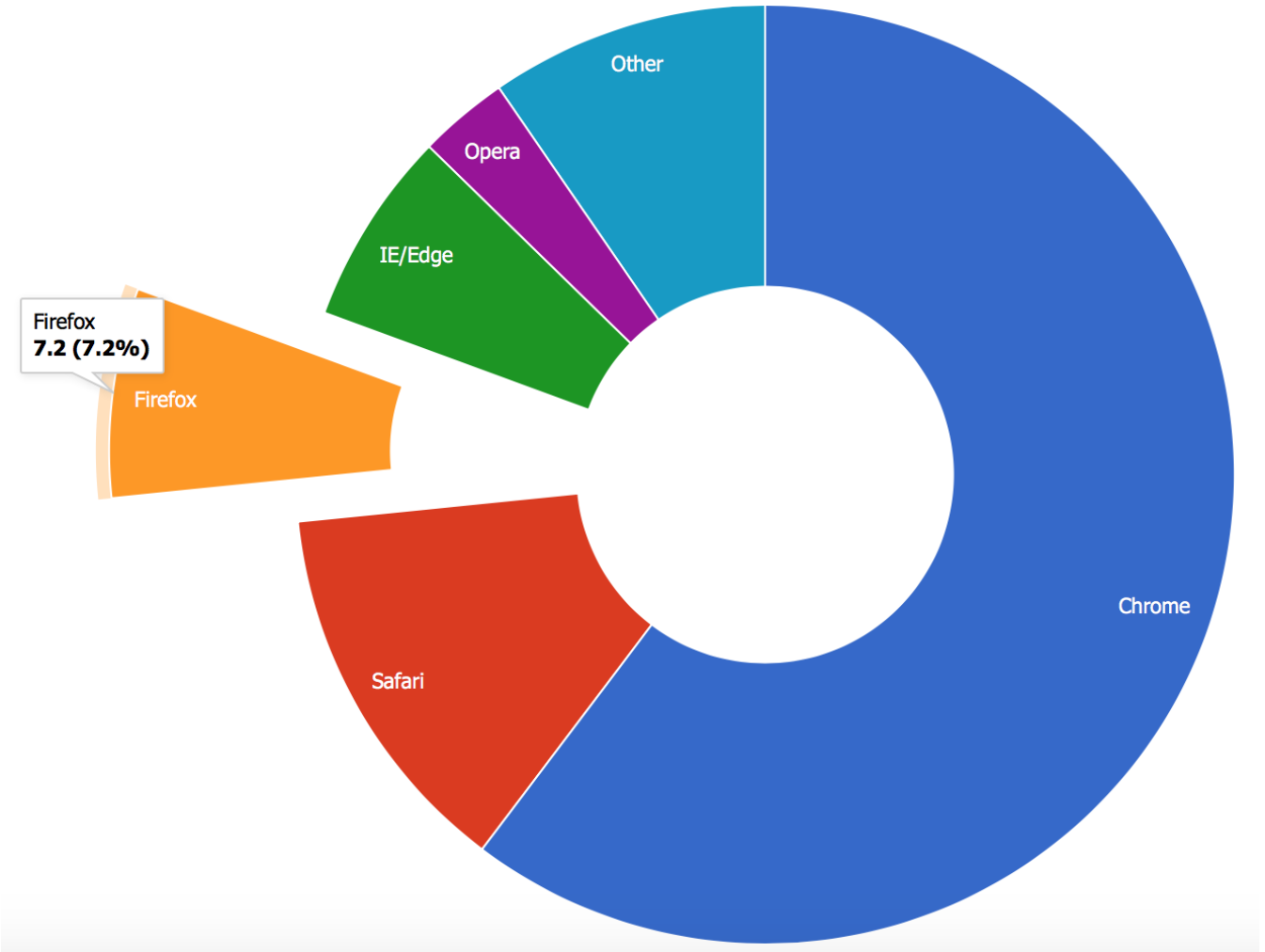






Laboratório TMS

Google Charts



Laboratório TMS

- Tensor Flow: Inteligência Artificial

Laboratório TMS

ExtJS

Load

Load the Fishfacts JSON dataset in the ExtJS grid

Fish Facts

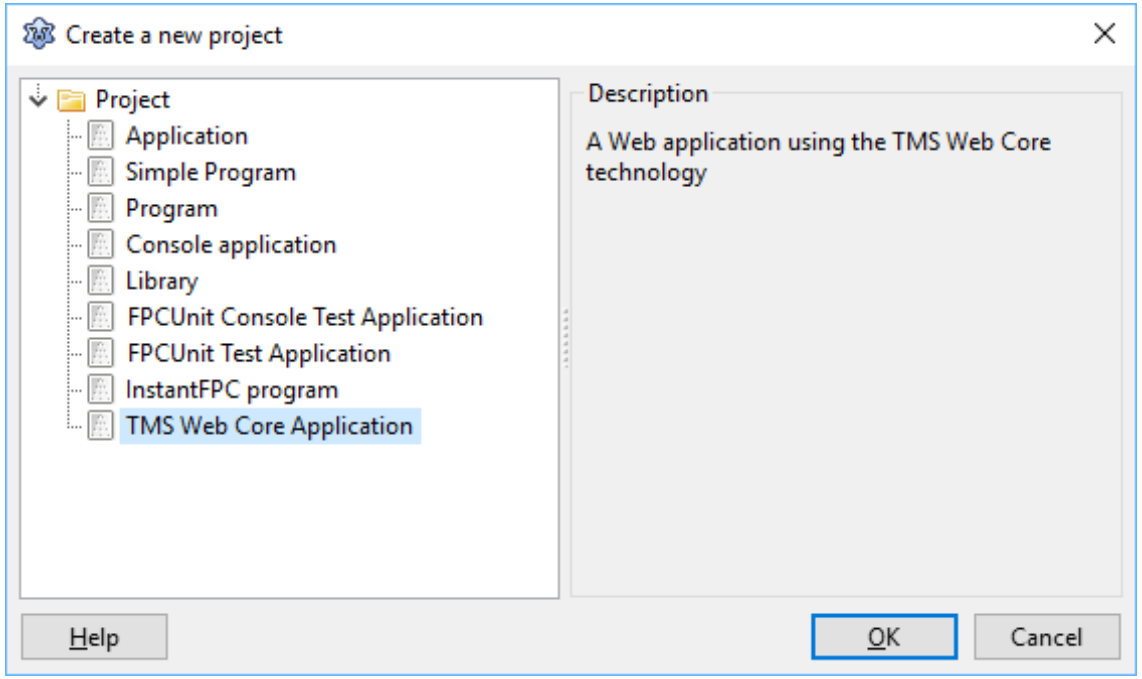
No	Category	Common...	Species N...	Length(cm)	Length (I...	Picture	Notes
90020	Triggerfish		listoide...	50.00	19.69		Also known as the big spotted triggerfish. Inhabits outer reef areas and feeds upon crustaceans and mollusks by crushing them with powerful teeth. They are voracious eaters, and divers 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

Sort Ascending
Sort Descending
Columns

- No
- Category
- Common Name
- Species Name
- Length(cm)
- Length (Inches)
- Picture
- Notes

Laboratório TMS

Lazarus



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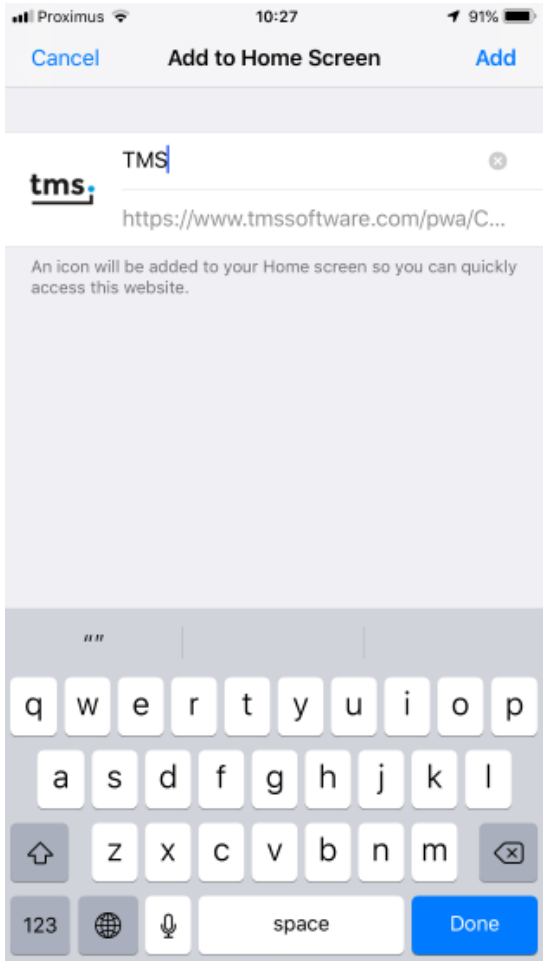
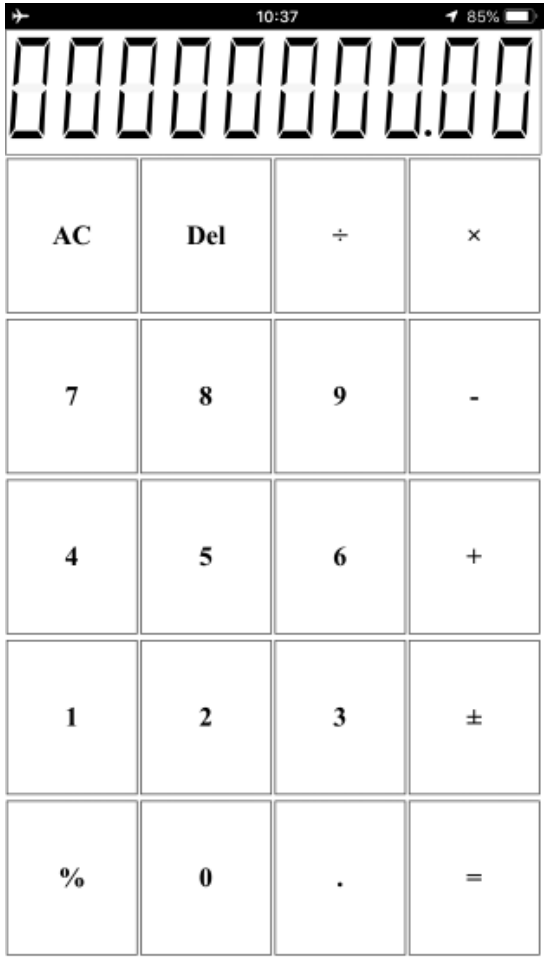
PWA – Progressive Web App





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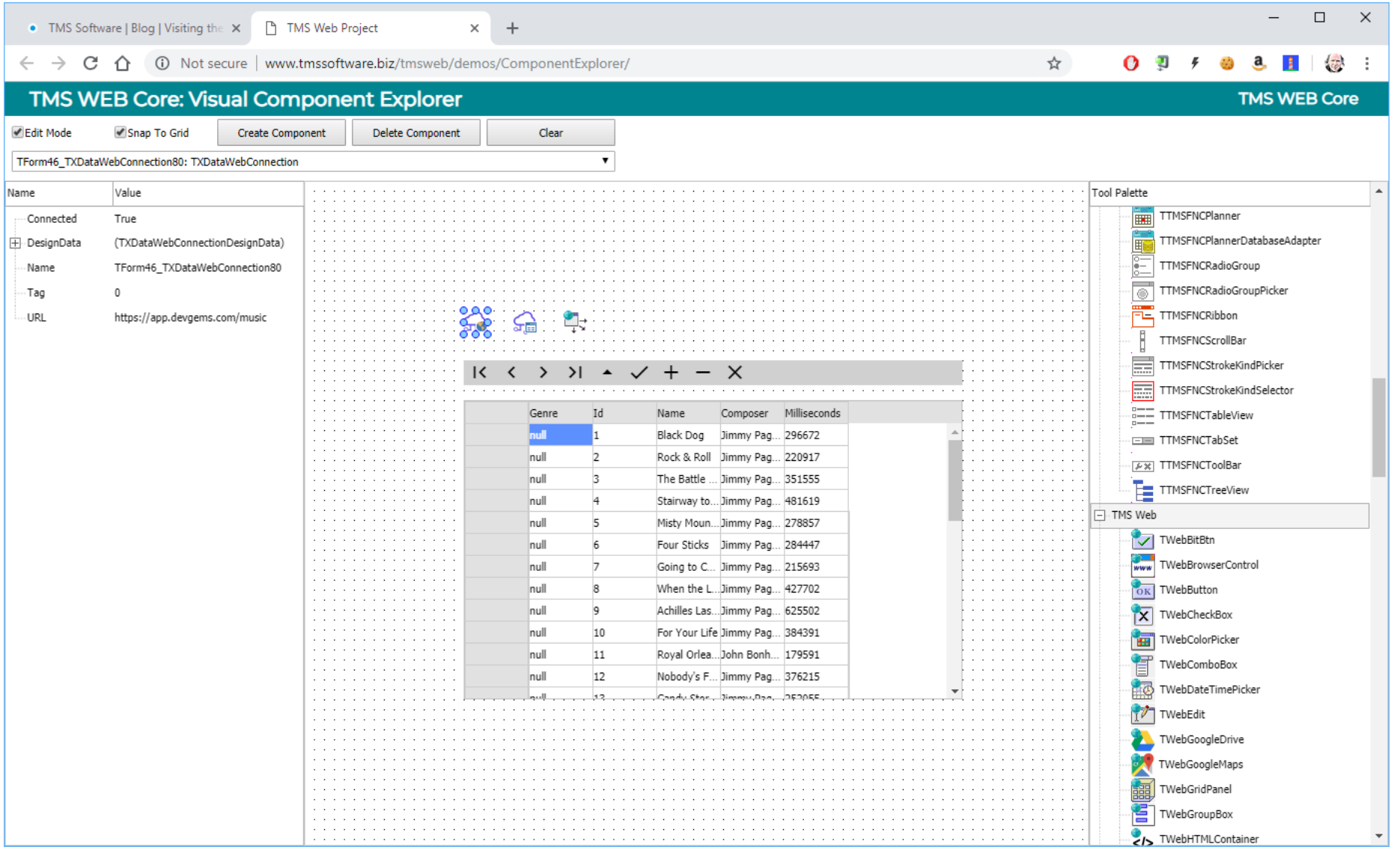
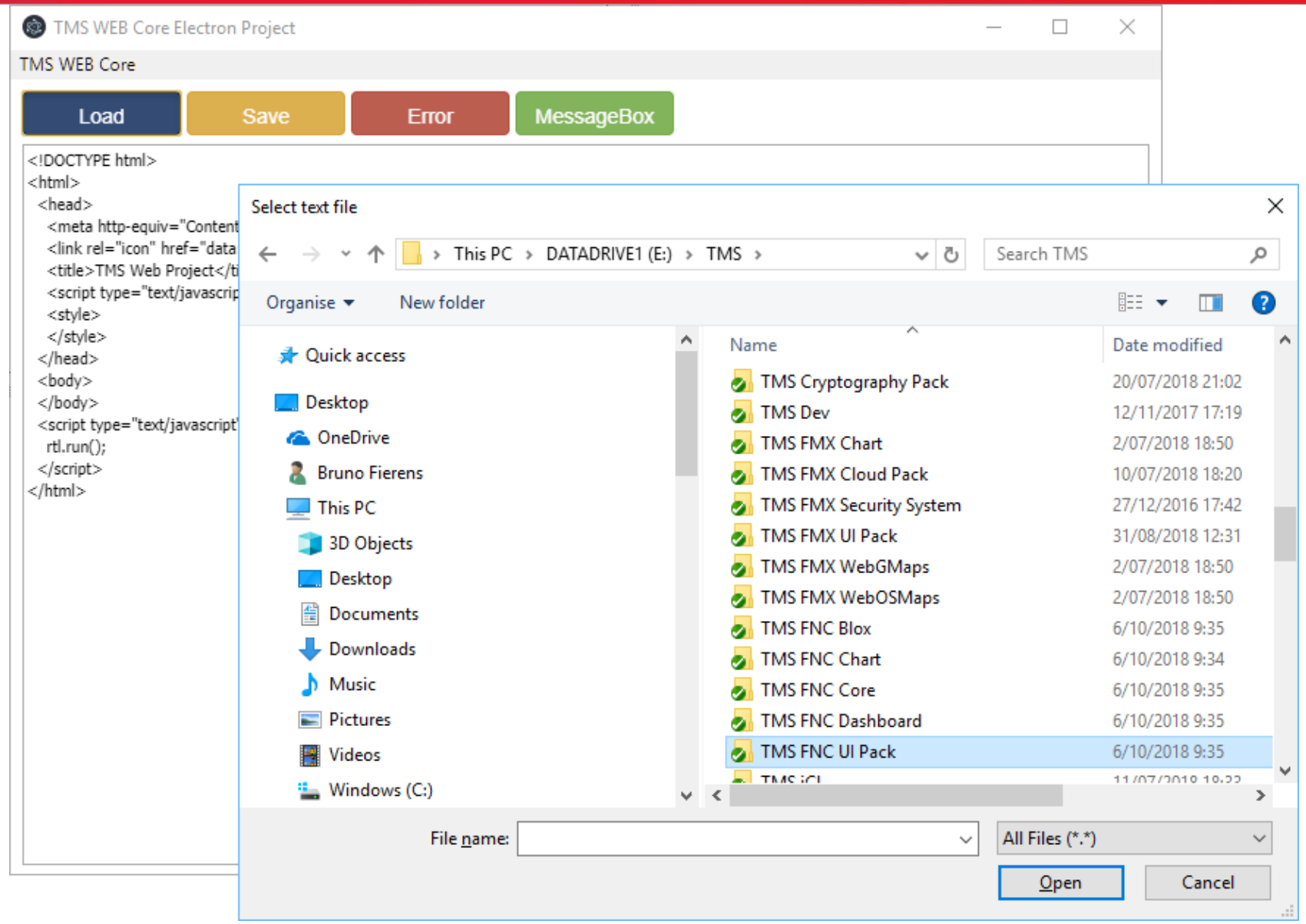
Form Designer no Browser



Laboratório TMS

Aplicação Desktop (Electron)



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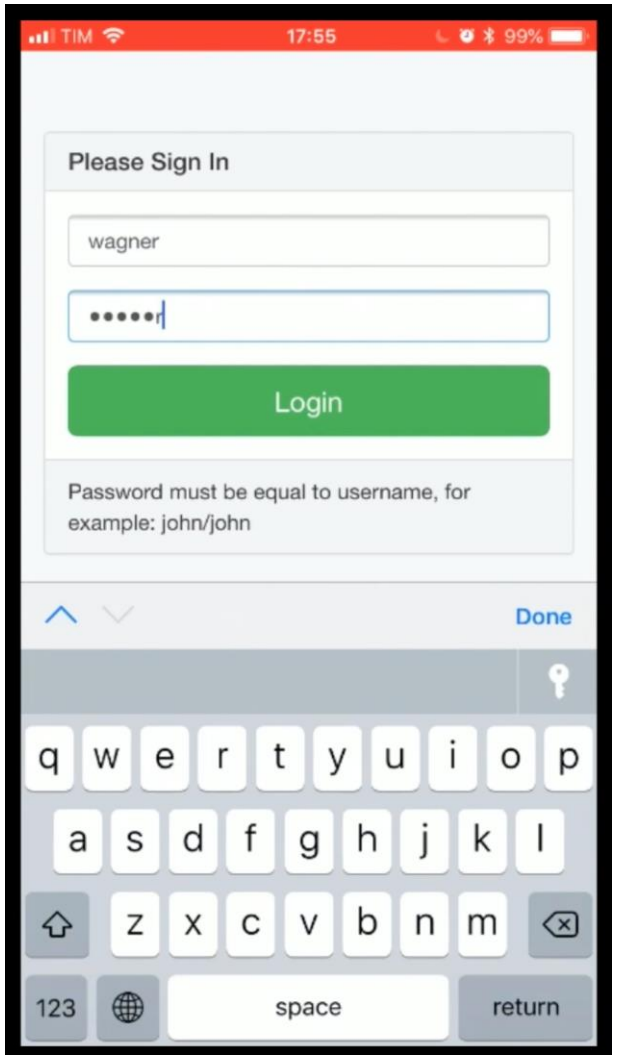
Aplicação Mobile (PhoneGap)



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

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