

# Modernizace aplikací

pro HCL **Notes** a HCL Nomad **Mobile**

SUTOL Konference 2022

# Představení



Ondřej Kostruh

NTF Factory

[kostruh@ntf-factory.com](mailto:kostruh@ntf-factory.com)

 @OndrejKostruh

# Soutěž - zadání


Soutěž pořádala firma Groupwave a OpenNTF na začátku roku 2022

Cílem bylo (v omezeném čase):

- **Modernizace** vzhledu aplikace z roku 2001 (navržené pro klienta Lotus Notes)
- Na funkce, kód, agenty, knihovny nesahat
- Aplikace nově určena také pro HCL Nomad – **mobil i tablet**

# Původní stav - pohledy



  
Designers

CRM

Companies

by Name

by Type

by Contact

Acc Customers

Acc Suppliers

Jobs

Invoices

Expenses

Actions

Letters

New Company

Modify


Create...

Update in Personal AddressBook

Company	Nr ^	City	Phone	Contact ^	Phone	VAT	
Cryf	408	Antwerpen		John Surinx			
dcds	617	vdsvsd					
Hub	482	Wommelgem	123	Mary Resslerer			
Q-Wash	616	Herentals				BE 0881.890.545	
Whow	552	Tessenderlo		Jack Sparrow			

# Původní stav - formuláře

Close
Modify


**UI Designers CRM**  
Company

General Company Details

Company	Cryf	Nr.	408
Address	Frankrijklei 1010		
Zip	2000		
City	Antwerpen	Country	
Phone		Language	Nederlands
Fax		Type	Customer, Supplier
Bank nr.		Domain	cryfs.be
VAT nr.		Website	http://www.cryfs.be

Contact Information

First Name	John		
Last Name	Surinx		
Function	CTO		
Title	De heer		
Phone/GSM			
Fax		Email	john.surinx@cryfs.be
Secretary			
Others		Invoice Name	

Comments

# Úpravy – teorie

## **Uživatelé by měli dostat co očekávají:**

- Vše by mělo být na místech, kde to uživatelé měli po „staletí“
- Přesto by aplikace měla vypadat moderně
- Současný přístup je spíše minimalistický - čistý design bez zbytečných dekorací

# Co uživatelé očekávají?

## **Velká obrazovka (monitor):**

- Notes klient, Nomad web
- Frames, Outlines, Actions, Fields
  - Využít ustálené zvyky
  - UX testy...

## **Malý display:**

- Nomad (mobil)
- mobilní vzhled
- málo místa
- ovládání musí být zjednodušené a/nebo se skrývat

# Použitá „kouzla“

“hiding” – Hide if formula is true ...

@Platform

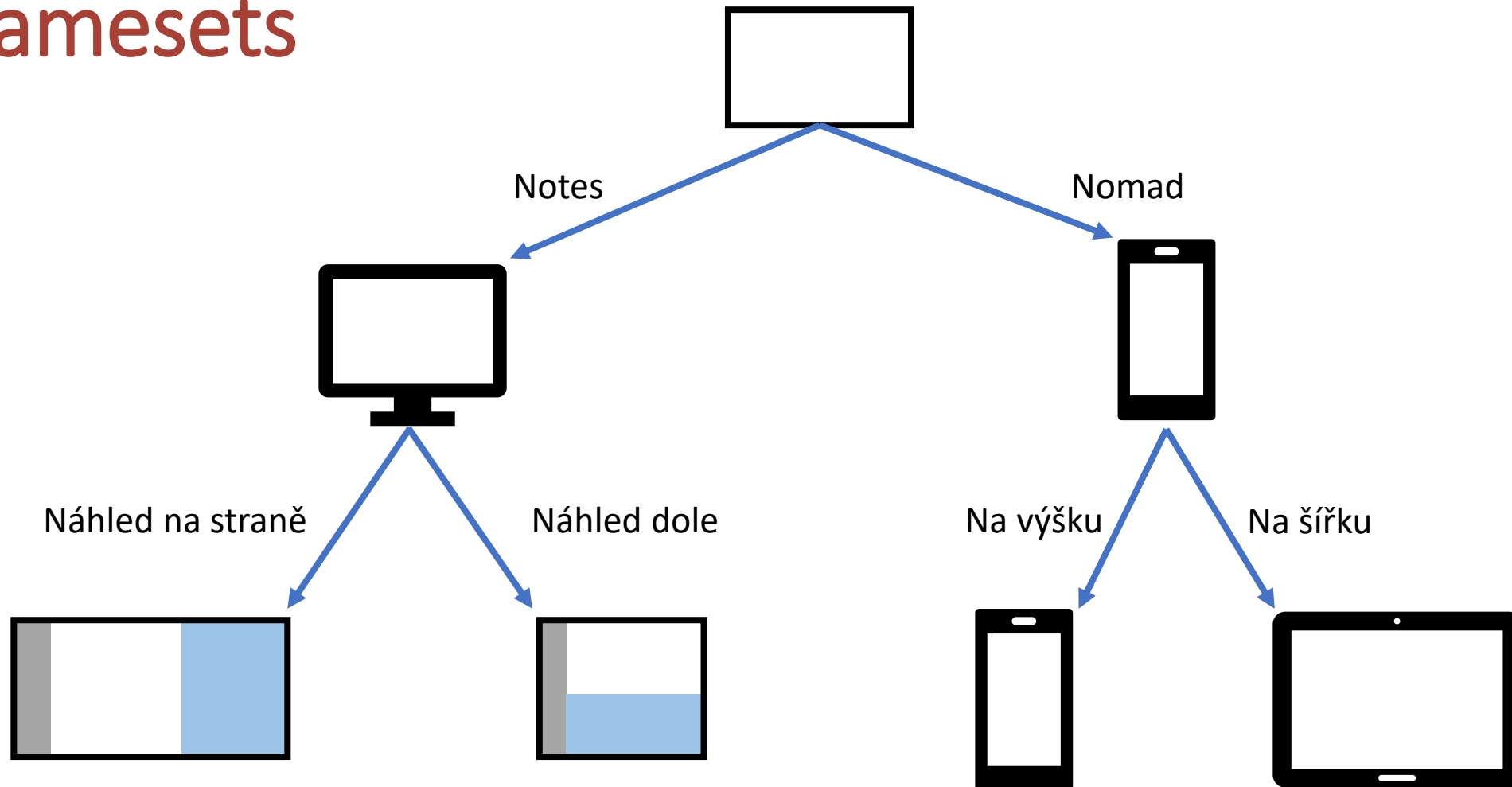
- iOS, Android

@ResolutionWidth a @ResolutionHeight

- @If(@ResolutionWidth<800; ....
- Od verze 12.0.1
- Nezapomeňte použít @Command([RelayoutWindow]) !



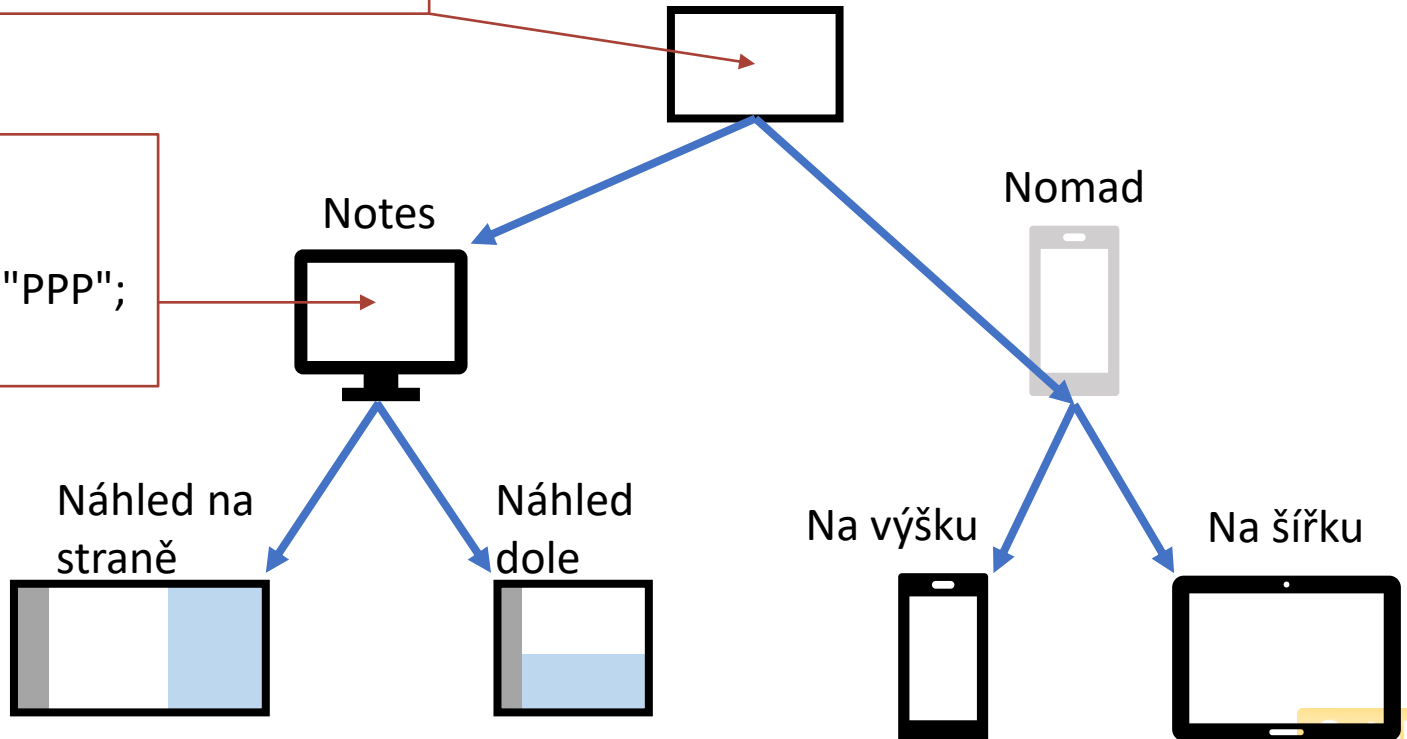
# Framesets



# Framesets - @Formulas

```
pl:=@Platform;  
@If(pl != "iOS" & pl != "Android"; "main_notes";  
@ResolutionHeight<@ResolutionWidth; "main_V_nomad";  
"main_H_nomad")
```


```
@If(  
@ClientType = "Web"; "PPD";  
@Environment("preview_right") = "1"; "PPP";  
"PPD")
```



# Notes



Nic překvapivého !

UI Designers CRM		New Company   Edit  Update in PAB				Preview	
lokální	Company	Nr ^	City	Phone	Contact ^	Phone	VAT
▼ Companies	Cryf	408	Antwerpen		John Surinx		
by Name	Hub	482	Wommelgem	123	Mary Resseler	456	
by Type	Whow	552	Tessenderlo		Jack Sparrow		
by Contact	Q-Wash	616	Herentals				BE 0881.890.545
Acc Customers	dcda	617	vdsvd				
Acc Suppliers							
▼ Jobs							
by Customer							
by Month/Customer							
by Date							
by Resp./Date							
by Year/Type							
Not Invoiced							
▼ Invoices							
by Company							
by Date							
by Status/Date							
Payed by Date							
Overdue							
▼ Expenses							
by Date (+Inv)							
by Place							
by Resp.							
by Status/YM							
by YM							
Expense Notes							
▼ Actions							
by Company							
by Status/Date							
by Resp./Status							
▼ Letters							
by Company							
by Date							
by Resp./Comp.							
› Administration							

# Notes - náhledy



UI Designers CRM						
New Company Edit Update in PAB Preview						
Companies	Company	Nr.	City	Phone	Contact	VAT
	Crfl	408	Antwerpen		John Surinx	
	Hub	482	Wommelgem	123	Mary Resselier	456
	Whow	552	Tessenderlo		Jack Sparrow	
	Q-Wash	616	Herentals			BE 0881 890 543
Jobs	Jobs	617	Idesd			
Invoices	Invoices					
Expenses	Expenses					
Actions	Actions					
Letters	Letters					
Administration						

Company: Whow

Created: Theo Heestmans, 23.03.2008 12:16:26 | Last modified: Ondřej Kotrhub, 13.05.2022 10:52:33

General Company Details

Company

Whow

Nr.

552

Type

Supplier

Address

Diestertstraat 56/201

Zip

3980

City

Tessenderlo

Country

Language

Nederlands

Phone

Fax

Bank nr.

VAT nr.

Domain

Website

[www.ahow.be](http://www.ahow.be)

Contact Information

First Name

Jack

Last Name

Sparrow

Function

Title

De heer

Phone/GSM

Fax

Email

Secretary

Others

Invoice Name

Comments

UI Designers CRM

New Company Edit Update in PAB Preview

Companies

Crfl

Hub

Whow

Q-Wash

dcda

Jobs

Invoices

Expenses

Actions

Letters

Administration

Company	Nr.	City	Phone	Contact	Phone
Crfl	408	Antwerpen		John Surinx	
Hub	482	Wommelgem	123	Mary Resselier	456
Whow	552	Tessenderlo		Jack Sparrow	
Q-Wash	616	Herentals			
dcda	617	Idesd			

Company: Whow

Created: Theo Heestmans, 23.03.2008 12:16:26 | Last modified: Ondřej Kotrhub, 13.05.2022 10:52:33

General Company Details

Company

Whow

Nr.

552

Type

Supplier

Address

Diestertstraat 56/201

Zip

3980

City

Tessenderlo

Country

Language

Nederlands

Phone

Fax

Bank nr.

VAT nr.

Domain

Website

[www.ahow.be](http://www.ahow.be)

Contact Information

First Name

Jack

Last Name

Sparrow

Function

Title

De heer

Phone/GSM

Fax

Email

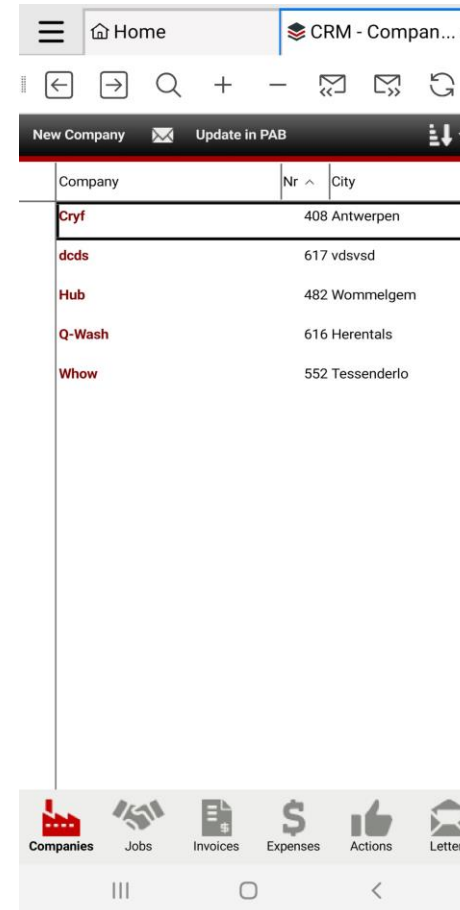
Secretary

Others

Invoice Name

# Nomad navigator - mobil

Imitace „mobilního“ ovládání



Company	Nr	City
<b>Cryf</b>	408	Antwerpen
<b>dcds</b>	617	vdsvsd
<b>Hub</b>	482	Wommelgem
<b>Q-Wash</b>	616	Herentals
<b>Whow</b>	552	Tessenderlo

The screenshot shows a mobile app interface with a top bar containing a menu icon, a 'Home' button, and a 'CRM - Compan...' tab. Below the top bar is a navigation bar with icons for 'New Company', 'Update in PAB', and a list icon. The main content area displays a table of companies. At the bottom, there is a dock with icons for 'Companies', 'Jobs', 'Invoices', 'Expenses', 'Actions', and 'Letters'.



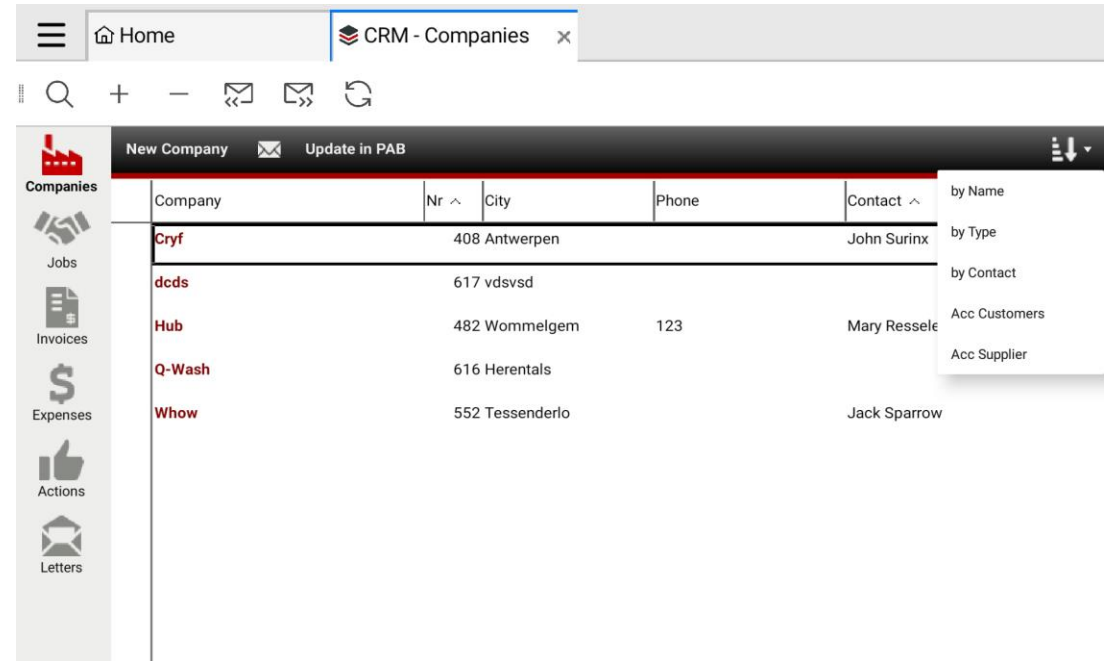
<b>Companies</b> <ul style="list-style-type: none"> <li>by Name</li> <li>by Type</li> <li>by Contact</li> <li>Acc Customers</li> <li>Acc Suppliers</li> </ul>
<b>Jobs</b> <ul style="list-style-type: none"> <li>by Customer</li> <li>by Month/Customer</li> <li>by Date</li> <li>by Resp./Date</li> <li>by Year/Type</li> <li>Not Invoiced</li> </ul>
<b>Invoices</b> <ul style="list-style-type: none"> <li>by Company</li> <li>by Date</li> <li>by Status/Date</li> <li>Payed by Date</li> <li>Overdue</li> </ul>
<b>Expenses</b> <ul style="list-style-type: none"> <li>by Date (+Inv)</li> <li>by Place</li> <li>by Resp.</li> <li>by Status/YM</li> <li>by YM</li> <li>Expense Notes</li> </ul>
<b>Actions</b> <ul style="list-style-type: none"> <li>by Company</li> <li>by Status/Date</li> <li>by Resp./Status</li> </ul>
<b>Letters</b> <ul style="list-style-type: none"> <li>by Company</li> <li>by Date</li> <li>by Resp./Comp.</li> </ul>

The screenshot shows a mobile app interface with a list of filters for various entities. The filters are grouped under expandable headers: Companies, Jobs, Invoices, Expenses, Actions, and Letters. Each header has a list of filter options.

# Nomad navigator - tablet

Navigátor přebírá outline pro přepínání pohledů

pro pamětníky – vzpomínáte na používání navigátorů v R5?



Company	Nr	City	Phone	Contact
<b>Cryf</b>	408	Antwerpen		John Surinx
<b>dcds</b>	617	vdsvsd		
<b>Hub</b>	482	Wommelgem	123	Mary Ressele
<b>Q-Wash</b>	616	Herentals		
<b>Whow</b>	552	Tessenderlo		Jack Sparrow

# Akce – Action bar

Tam kde lze akci **jednoznačně** identifikovat podle ikony lze použít ikonu:

- save \*), close, print, mail, add, delete

... a používat “hide when”

- Ne všechny akce jsou vždy potřeba

\*) DŮ za bod navíc:

Ikona pro uložení (save):

3.5“ disketa nebo něco jiného...

# Formuláře – Notes

Pokud máme **dost místa** na obrazovce je dobré ji **využít**:

- Políčka lze umístit do dvou sloupců

X

Edit

Company: Whow

Created: Theo Heselmans, 23.03.2008 12:16:26 | Last modified: Ondřej Kostruh, 13.05.2022 10:52:33

General Company Details

Company	Whow
Nr.	552
Type	Supplier
Address	Diesterstraet 56/201
Zip	3980
City	Tessenderlo
Country	
Language	Nederlands
Phone	
Fax	
Bank nr.	
VAT nr.	
Domain	
Website	<a href="#">www.whow.be</a>

Contact Information

First Name	Jack
Last Name	Sparrow
Function	
Title	De heer
Phone/GSM	
Fax	
Email	
Secretary	
Others	
Invoice Name	

Comments

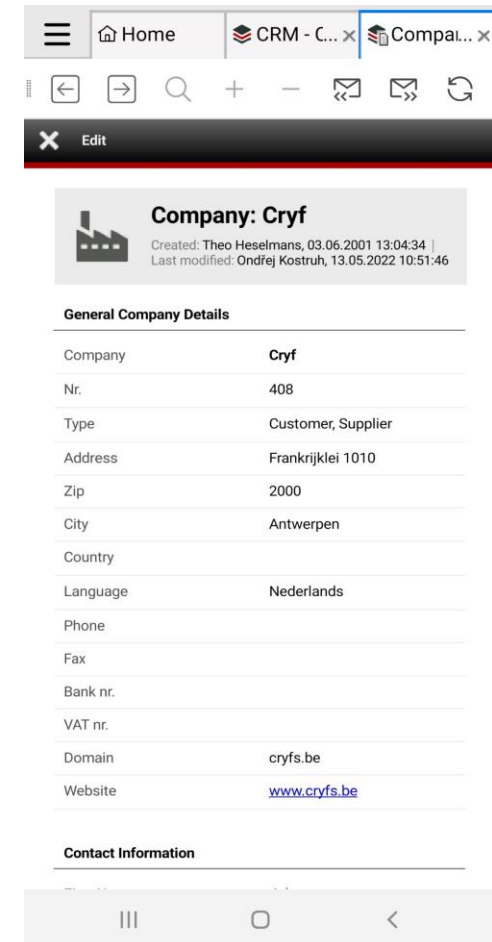


# Formuláře - Nomad

... ale pokud není místa nazbyt (mobil na výšku):

- Je třeba políčka (sloupce) pod sebe
- Ale nechceme formulář dělat úplně jinak

A znovu: @ResolutionWidth a “hide when”




The screenshot shows a mobile application interface for a CRM system. At the top, there's a navigation bar with a menu icon, a 'Home' button, and two tabs: 'CRM - C...' and 'Compa...'. Below the navigation bar is a toolbar with various icons for navigation and actions. A red 'Edit' button is visible. The main content area displays 'Company: Cryf' with a factory icon and creation/modification timestamps. Below this is a section titled 'General Company Details' containing a form with fields for Company, Nr., Type, Address, Zip, City, Country, Language, Phone, Fax, Bank nr., VAT nr., Domain, and Website. The bottom of the screen shows a mobile OS navigation bar with back, home, and recent apps icons.

General Company Details	
Company	Cryf
Nr.	408
Type	Customer, Supplier
Address	Frankrijklei 1010
Zip	2000
City	Antwerpen
Country	
Language	Nederlands
Phone	
Fax	
Bank nr.	
VAT nr.	
Domain	cryfs.be
Website	<a href="http://www.cryfs.be">www.cryfs.be</a>

# Konečně živá ukázka...

## Responzivnost formuláře a jak jí dosáhnout...

Edit



# Company: Whow

Created: Theo Heesmans, 23.03.2008 12:16:26 | Last modified: Ondřej Kastruh,  
13.05.2022 10:52:33

## General Company Details

Company	Whow
Nr.	552
Type	Supplier
Address	Diestenstraat 56/201
Zip	3980
City	Tessenderlo
Country	
Language	Nederlands
Phone	
Fax	
Bank nr.	
VAT nr.	
Domain	
Website	<a href="#">www.whow.be</a>

## Contact Information

First Name	Jack
Last Name	Sparrow
Function	
Title	De heer
Phone/GSM	
Fax	
Email	
Secretary	
Others	
Invoice Name	

## Comments

Edit

Company: Whow

Created: Theo Heselmans, 23.03.2008 12:16:26 | Last modified: Ondřej Kostruh, 13.05.2022 10:52:33

General Company Details

Company

Whow

Nr.

552

Type

Supplier

Address

Diesterstraat 56/201

Zip

3980

City

Tessenderlo

Country

Language

Nederlands

Phone

Fax

Bank nr.

VAT nr.

Domain

Website

[www.whow.be](#)

Contact Information

First Name

Jack

Last Name

Sparrow

Function

Title

De heer

Phone/GSM

Fax

Email

Secretary

Others

Invoice Name

Comments

# Odkazy

- UI Contest 2022 – The results
- <https://www.groupwave.be/2022/05/30/contest-2022-winners/>
- OpenNTF - CRM for Notes and Nomad - UI Contest 1
- <https://www.openntf.org/main.nsf/project.xsp?r=project/CRM%20for%20Notes%20and%20Nomad%20-%20UI%20Contest%201>