

## Grupo 17

Catarina Gonçalves (PG50180)

Francisco Toldy (PG50379)

João Delgado (PG50487)

Joana Alves (PG50457)

Pedro Fernandes (A84313)

Vicente Moreira (PG50799)

PI | BOSCH

Janeiro 2024

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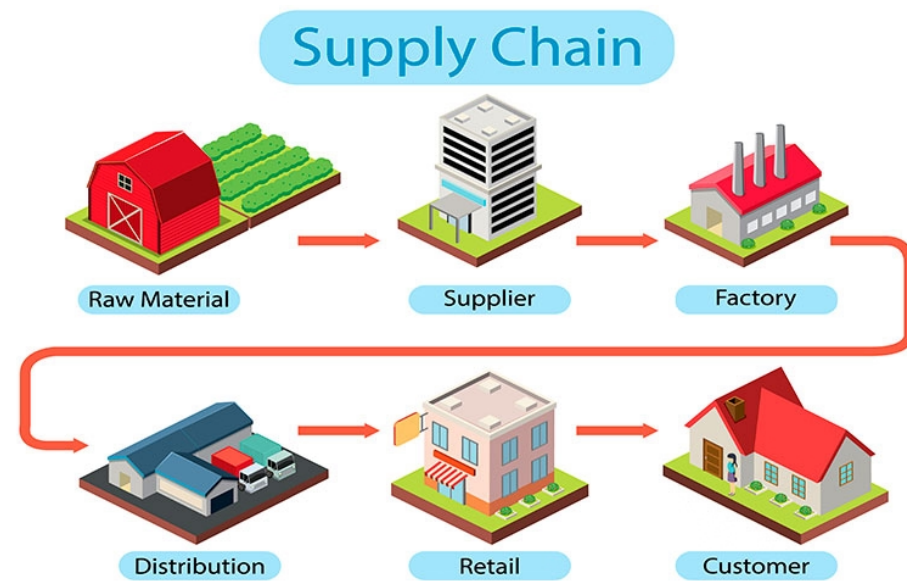
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# 01 Introdução

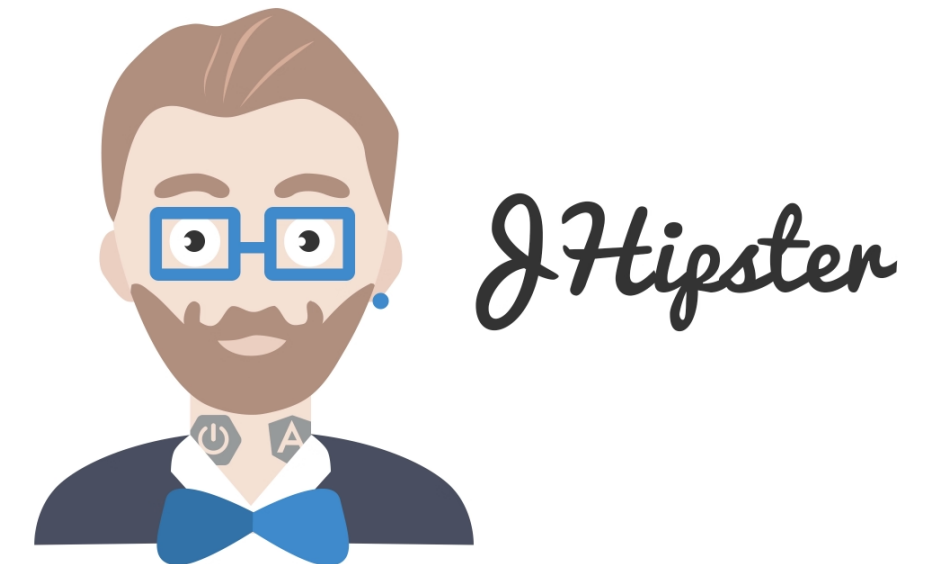
# Introdução



Contexto



Clientes



Restrições

# 02 Gestão do Projeto

# Equipa

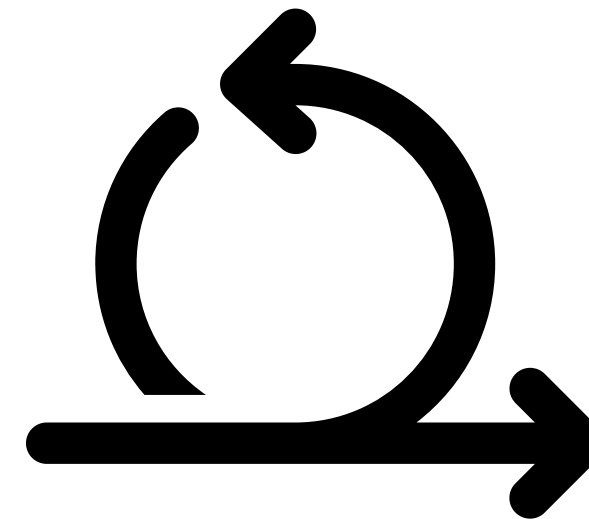
## Back-end

Catarina Gonçalves  
Pedro Fernandes

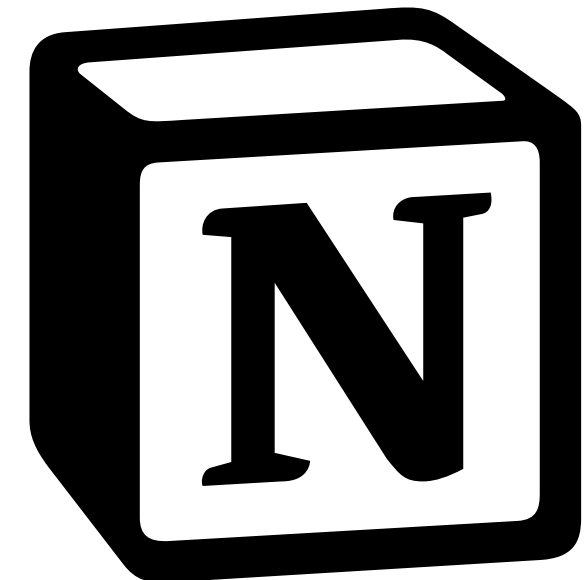
## Front-end

Francisco Toldy  
Joana Alves  
João Delgado  
Vicente Moreira

# Metodologia



Agile Development



Notion

# 03 Requisitos

# Requisitos

## Funcionais



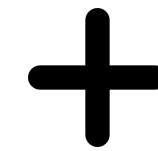
- Visualizar Dados com suporte a Filtragem e Ordenação
- Edição de Células com atualização de campos calculados.
- Importação/Exportação

## Não Funcionais



- Os dados editados devem estar assinalados de forma clara
- O código fonte entregue deve estar devidamente documentado

## Extra



- Guided Process
- Diferentes tipos de utilizador
- Página de alterações



# 04 Arquitetura da Solução

# 05 Mockup e Design Final

# Mockup Inicial

Safety Time/Stock Analysis HtvP

## Analyse and Adjust SAP Safety Time & Safety Stock

Quick filters:

MRP Controller

Show

Hide special cases

Local Currency

EUR

Calculation for next 6 months

Current inventory value.  
Calculation: Current Stock \* Price  
per unit in local currency

Select/ deselect all

Flag / de-flag all

Material	Material description	ABC Classification	Avg. Supplier delay last 90 days [d]	Max. supplier delay last 90 days [d]	Service Level	Current SAP Safety Stock	Proposed Safety Stock	Delta Safety Stock	Current SAP Safety Time	Proposed Safety Time	Delta Safety Time	Open SAP MD04	Current inventory value	Average inventory effect after change	New SAP Safety Stock	New SAP Safety Time	Select entries for change in SAP	Flag material as special case	Comment (voluntary)
F005V19301		A		3	1	100	80	-20	14	14	0		300.000 EUR	- 20.000 EUR	80	10	<input checked="" type="checkbox"/>		
F005V18667		B		12	1	5000	6000	+ 1000	10	8	-2				5500	8	<input checked="" type="checkbox"/>		
F005V18666		C		13	1	0	0	0	15	20	+5				0	20	<input type="checkbox"/>		
F005V17842		B	1	3	0.8	300	100	-200	10	8	-2				100	8	<input checked="" type="checkbox"/>		
F005V17841		C	9	16	1			0			0				0	10	<input checked="" type="checkbox"/>		
F005V17749		C	9	20	1			0	10	25	+15				0	25	<input type="checkbox"/>		
F005V17749		C	9	20	1	0	0	0	10	25	+15								

Changed on 08.09.2023  
Previous Safety Time 12 d

Changed on 12.04.2023  
Previous Safety Stock 2.000

Submit selected changes to SAP

# Design Final

▼ Filter Options ▼

📄 File Options ▼

⚙️ Table Size ▼

↶ Undo ▼

↺ Refresh list

🇪🇺 Euros €

➦ Submit Changes to SAP

Material Info ▶

Supplier Delay Info ▶

Safety Stock Info ▶

Safety Time Info ▶

Inv. Info & Service Lvl ▶

Selected Materials ▶

Flagged Materials ▶

Start Tutorial

Service levels determines the percentage of delivered goods from an order compared to the total order, aiming to meet demand and fulfill customer requirements

Material Info					Supplier Delay Info	Safety Stock Info	Safety Time Info	Inventory Info	Current Inventory Value	Edit						
Description	ABC Classification	Plant	MRP Controller	...	...	...	...	Service Level	SAP Md 04	...	Average Inventory Effect After Change	New Sap Safety Stock	New Sap Safety Time	Entries For Change In Sap Select All	Flag Material As Special Case	Comment
8902215405 PD/AG KONTAKTFLÄCHEN	B	Plant460	mp463	...	...	...	...	0.2	🔗	12091.55 (EUR)	348368.45 (EUR)	100	300	<input type="checkbox"/>	🚩	✎
8902222427 CERAMIC CAPACITOR; PD/AG KONTAKTFLAECHEN	C	Plant461	mp464	...	...	...	...	0.3	🔗	19364.8 (EUR)	58605.12 (EUR)	952	10	<input checked="" type="checkbox"/>	🚩	✎
8920317433 METAL-FILM RESISTOR;	A	Plant462	mp465	...	...	...	...	0.6	🔗	22401.28 (EUR)	11518.84 (EUR)	310	14	<input type="checkbox"/>	🚩	✎
8920326123 CARBON-FILM RESISTOR;	B	Plant463	mp466	...	...	...	...	0.2	🔗	54312.44 (EUR)	10866.96 (EUR)	675	28	<input type="checkbox"/>	🚩	✎
8634494064 CONNECTING CABLE;	C	Plant464	mp467	...	...	...	...	0.5	🔗	23246.64 (EUR)	208567.2 (EUR)	700	70	<input type="checkbox"/>	🚩	✎
8634494177 WIRING HARNESS; ANSCHLUSSKABEL +/-	A	Plant465	mp468	...	...	...	...	0.9	🔗	121479.3 (EUR)	The input value constitutes a 141% deviation from the old value					
8632094598 KNOB; FF-BUTTON PRINTED MSK3902	B	Plant466	mp469	...	...	...	...	0.6	🔗	72301.04 (EUR)						
8632094599 KNOB; FR-BUTTON PRINTED MSK3903	C	Plant467	mp470	...	...	...	...	0.4	🔗	16758.7 (EUR)						

# Design Final

## Submitted Changes Review

Back

Material	Material Description	ABC Classification	Plant	MRP Controller	New SAP Safety Stock			New SAP Safety Time			Flag			Comment
6720648744	OPERATING INSTRUCTIONS; tbd (NL)	A	9440	mp06	680	700	↑ 3%	50	59	↑ 18%		→		
6720645497	IO RC100 2012/06 div	B	8640	mp05	300	250	↓ 17%	25	30	↑ 20%		→		Shipping costs ma... Shipping costs will ...
6720645487	IM RC200 2012/06 itttt	A	1760	mp04	964	1000	↑ 4%	30	30	-		→		shipping costs may... shipping costs may...
6720648745	OPERATING INSTRUCTIONS; tbd (FR)	B	8150	mp07	86	86	-	10	15	↑ 50%		→		
6720648746	OPERATING INSTRUCTIONS; tbd (IT)	C	1760	mp08	447	500	↑ 12%	4	4	-		→		

## Special Cases

Filter Options

Table Size

Material	Material Description	ABC Classification	Plant	MRP Controller	Flag Status	Edit
6720645497	IO RC100 2012/06 div	B	8640	mp05		
6720648746	OPERATING INSTRUCTIONS; tbd (IT)	C	1760	mp08		
6720648744	OPERATING INSTRUCTIONS; tbd (NL)	A	9440	mp06		
6720648745	OPERATING INSTRUCTIONS; tbd (FR)	B	8150	mp07		
8600861970	Serrated belt wheel 21T5/15-0;20.110.121	C	8150	mp11		

Showing 1 - 5 of 5 items.

«« « 1 » »»

# 06 Resultados Final



## Materials

Filter Options ▾

File Options ▾

Table Size ▾

Undo ▾

Refresh list

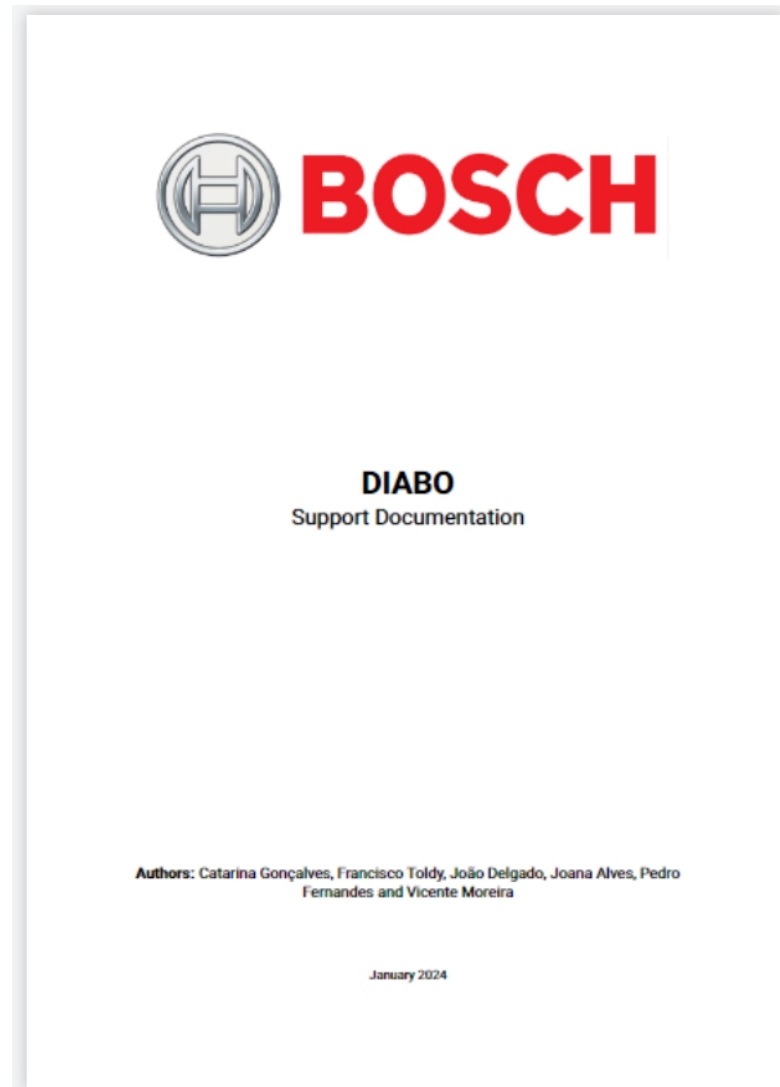
☒ Euros €[Submit Changes to SAP](#)

Material Info ↗	Supplier Delay Info ↗	Safety Stock Info ↗	Safety Time Info ↗	Inventory ↗						Edit ↗				
...	...	...	...	Service Level ↕	Open SAP Md 04 ↕	Current Inventory Value ↕	Delta Safety Stock ↕	Delta Safety Time ↕	Average Inventory Effect After Change ↕	New Sap Safety Stock ↕	New Sap Safety Time ↕	Entries For Change In Sap <input type="checkbox"/> Select All	Flag Material As Special Case	Comment ↕
...	...	...	...	645	<a href="#">🔗</a>	54756 (EUR)	60273	78770	51882 (EUR)	85808	13840	<input type="checkbox"/>	🚩	withdrawal EXE violet <a href="#">✎</a>
...	...	...	...	77204	<a href="#">🔗</a>	4959.21 (EUR)	61643	47475	7014.77 (EUR)	66173	32342	<input type="checkbox"/>	🚩	quantifying <a href="#">✎</a>
...	...	...	...	77952	<a href="#">🔗</a>	61428.6 (EUR)	48277	87318	18785673438786.48 (EUR)	96602	95129	<input type="checkbox"/>	🚩	AI Plastic <a href="#">✎</a>
...	...	...	...	77626	<a href="#">🔗</a>	2898.48 (EUR)	20755	12129	18499.59 (EUR)	7442	55098	<input type="checkbox"/>	🚩	card disintermediate Sol... <a href="#">✎</a>
...	...	...	...	65314	<a href="#">🔗</a>	8358.08 (EUR)	70379	73926	4682.47 (EUR)	24195	15282	<input type="checkbox"/>	🚩	comment test <a href="#">✎</a>

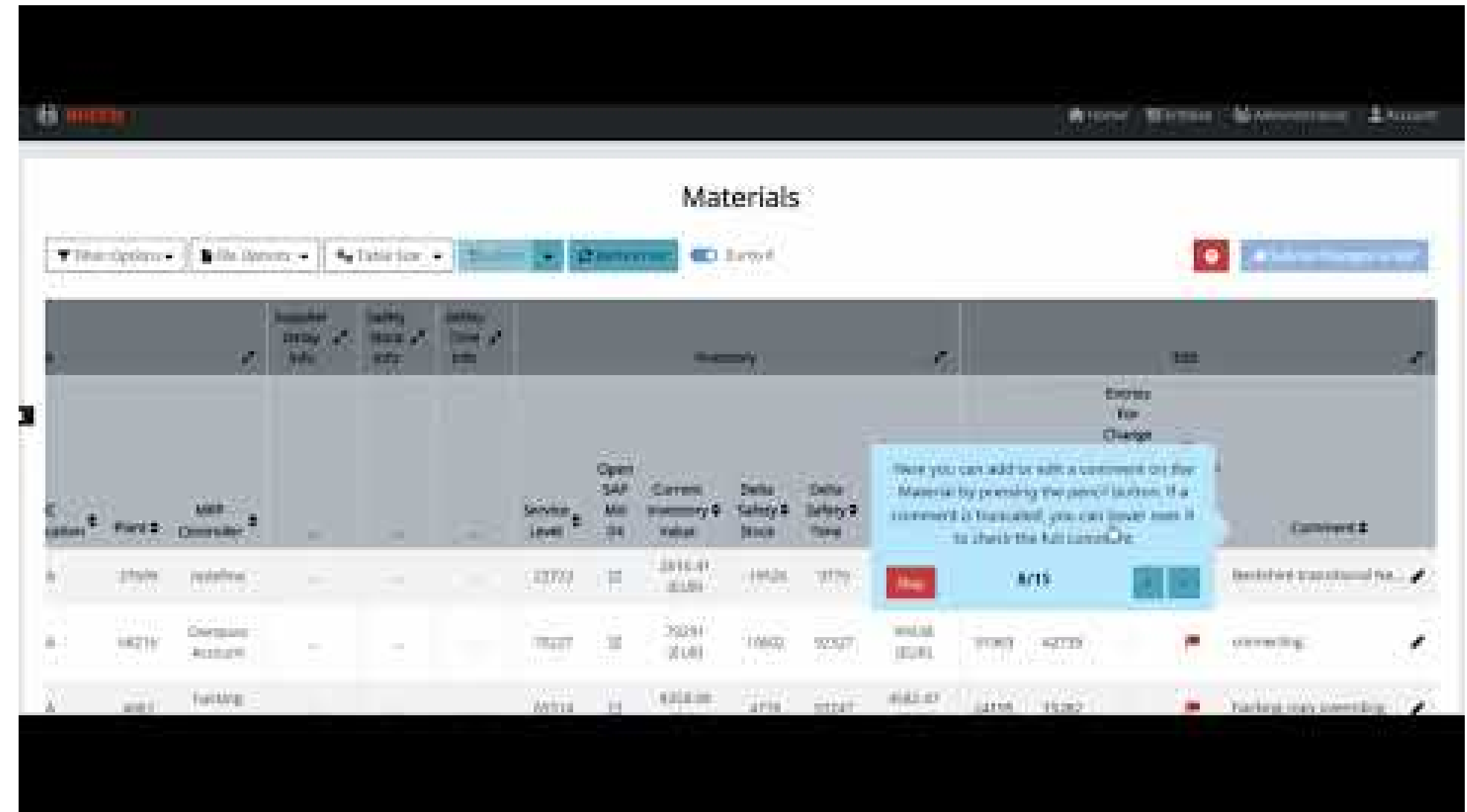
# 07 2<sup>a</sup> Componente



# 2ª Componente



Documento de Suporte/Tutorial



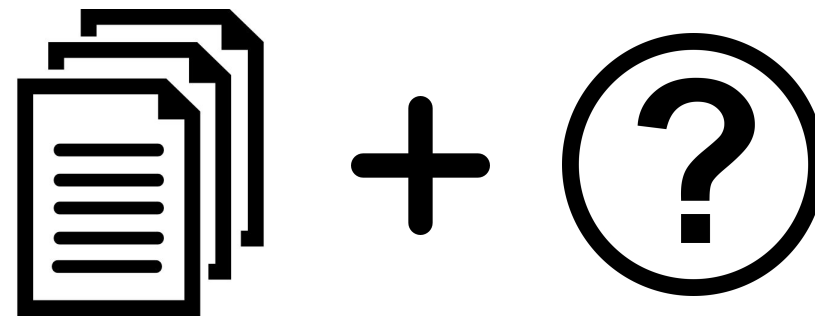
Tutorial interativo no sistema

# 08 Conclusão

# Conclusão



Solução implementada  
com requisitos pedidos  
e adicionais



2ª Componente  
Robusta



Pronta a integrar no  
sistema dos clientes

Obrigado