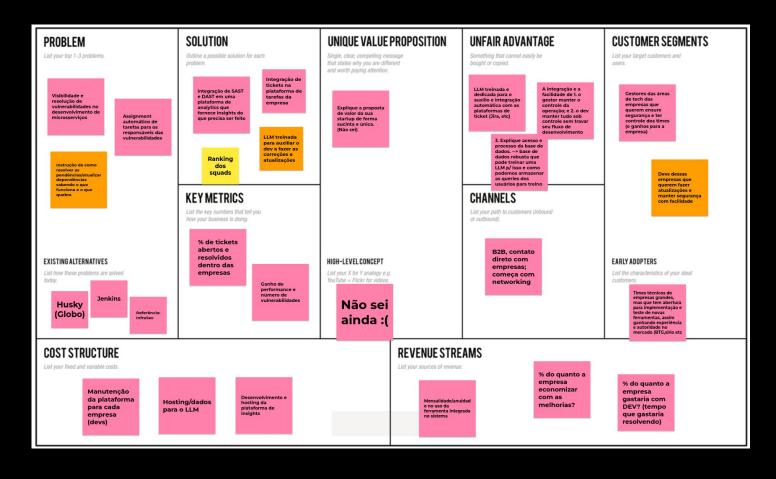
Al Startup: Persona e MVP

Fabrício J. Barth fabriciojb@insper.edu.br

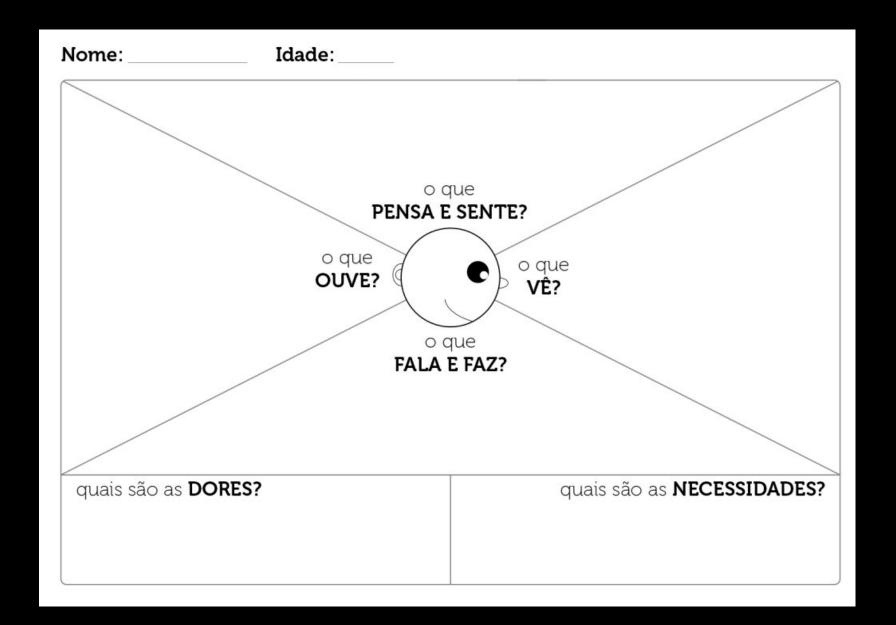
Cada startup tem o seu lean canvas



Tem definido o problema e o segmento de clientes ques deseja atuar, entre outras coisas.

Será que a visão do cliente é clara o suficiente?

Conceito de Persona



Conceito de Persona: exemplo



atualizada

Normalmente construído de forma colaborativa.

Com post-it ou sem...

Outros dados importantes podem ser adicionados, por exemplo, dados sócio-econômicos.

Exemplo de demanda

Estamos no ano de 2016. Em uma empresa que vende serviços de Inteligência Artificial para o desenvolvimento de inúmeras soluções, entre elas, Assistentes Virtuais.

Gisele (Marketing e Comunicações): Oi Fabrício. Tudo bem?

Fabrício (Watson): Oi. Tudo bem! E contigo?

Gisele: Dá para usar o Watson para fazer uma aplicação que conversa com obras de arte?

Fabrício: ...

Fabrício: Me explica melhor o que você está imaginando.

Gisele: Precisamos mostrar para o público leigo o que é a nossa tecnologia.

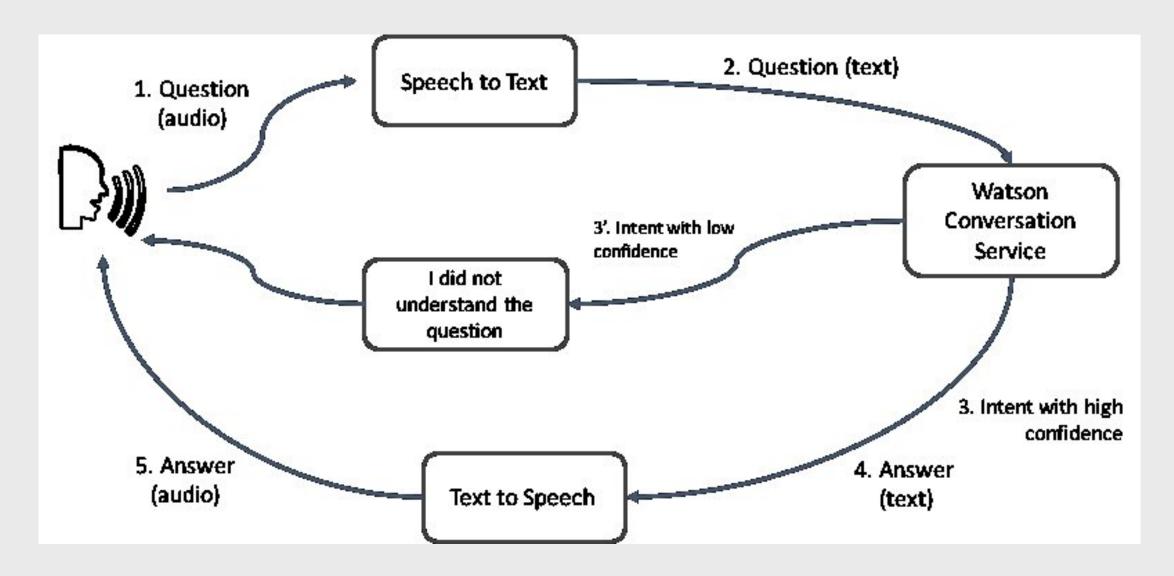
Qual é o problema?

Quem é a persona desta solução?

Quem são os stakeholders?

Como é o mapa de empatia desta persona?

Rascunho da solução



Rascunho da solução: visão de tecnologia 2024

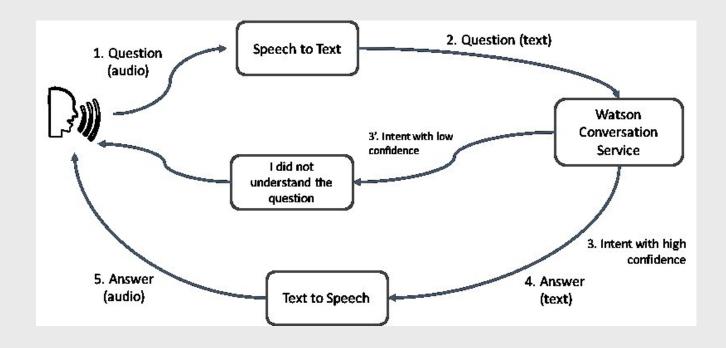
STT e TTS:

- Google Cloud
- IBM Cloud
- AWS
- Microsoft
- No próprio device
- N outras empresas que fornecem este tipo de solução
- Modelos abertos no https://huggingface.co/
- Não faz sentido querer construir o seu do zero.

Virtual Assistant:

- Watson Assistant da IBM
- Dialog Flow do Google
- AWS tem uma solução muito estranha...
- Microsoft também...
- Modelos abertos de Language Model no https://huggingface.co/

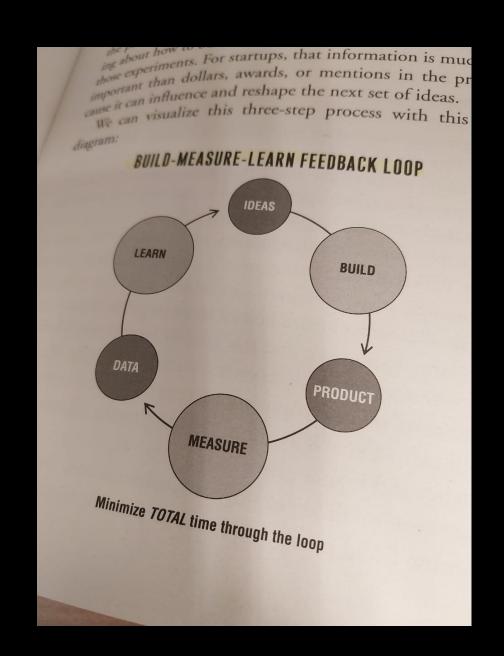
Isto é o desenho do MVP? O que é MVP?



Minimum Viable Product (MVP)

Frases retiradas do livro "The Lean Startup":

- We have the problem and the customer segments. Now is time to validate our hypothesis!
- We must learn what customers really want, not what they say they want or what we think they should want.
- The question is not "Can this product be built?" In the modern economy, almost any product can be imagined ca be built.
- The more pertinent questions are "Should this product be built?" and "Can we build a sustainable business around this set of products and services?"
- We need the scientific method. In the Lean Startup Model, every product, every feature, every marketing campaign is understood to be an experiment designed to achieve validated learning.

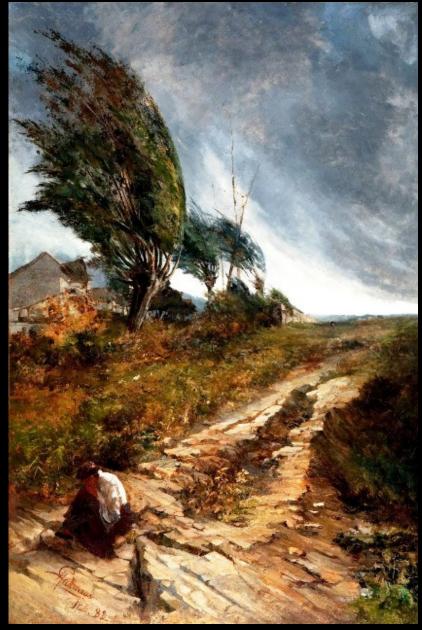


The big **challenge** is how to implement a system that can understand every question about some works of art and provide the best answer to most questions.



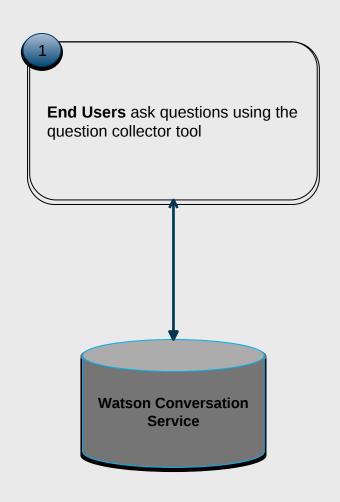


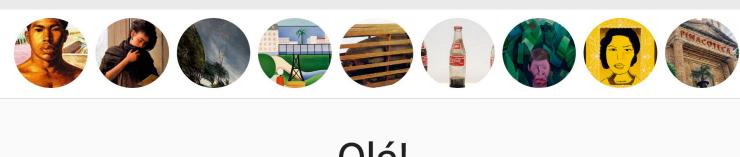
Almeida Júnior. Saudade, 1899



Antônio Parreiras. Ventania, 1888

O mínimo do mínimo neste projeto





Olá!

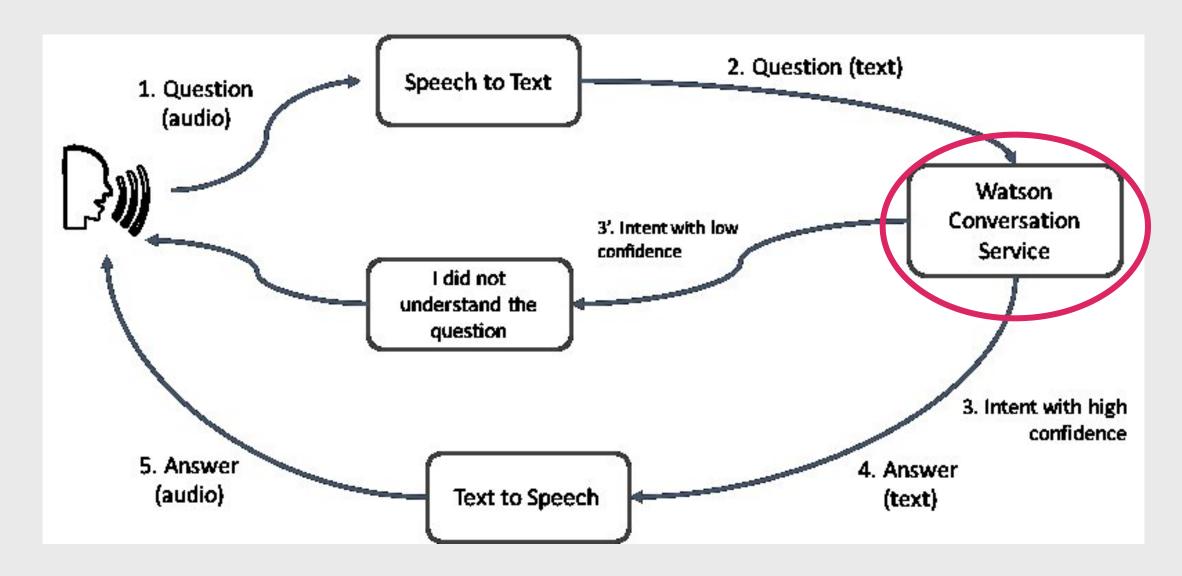
A seguir, você poderá nos ajudar a entender quais tipos de perguntas e curiosidades as pessoas gostariam de saber sobre 9 grandes obras de arte brasileiras.

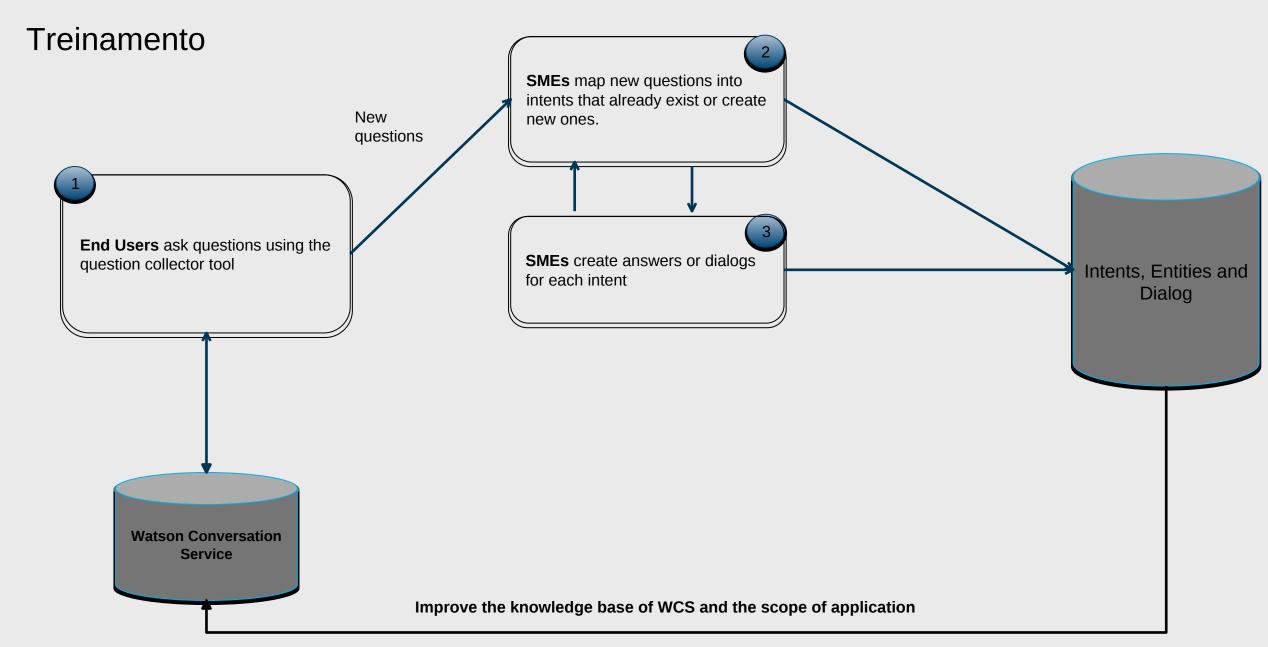
CLIQUE AQUI PARA COMEÇAR!

Hi!

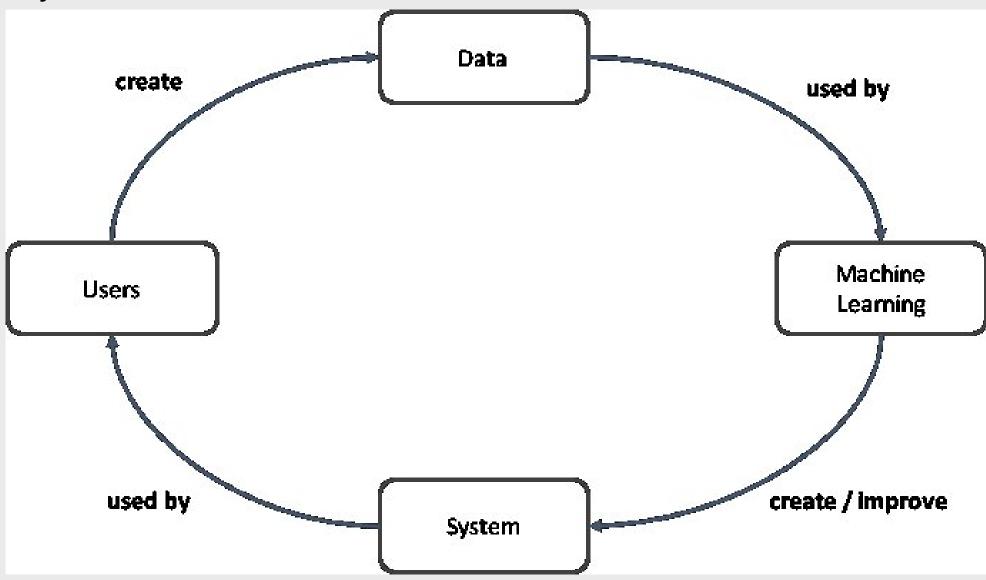
In this site, you will help us understand the questions people might have and how curious they are about these 9 wonderful Brazilian pieces of art.

MVP: 1a iteração

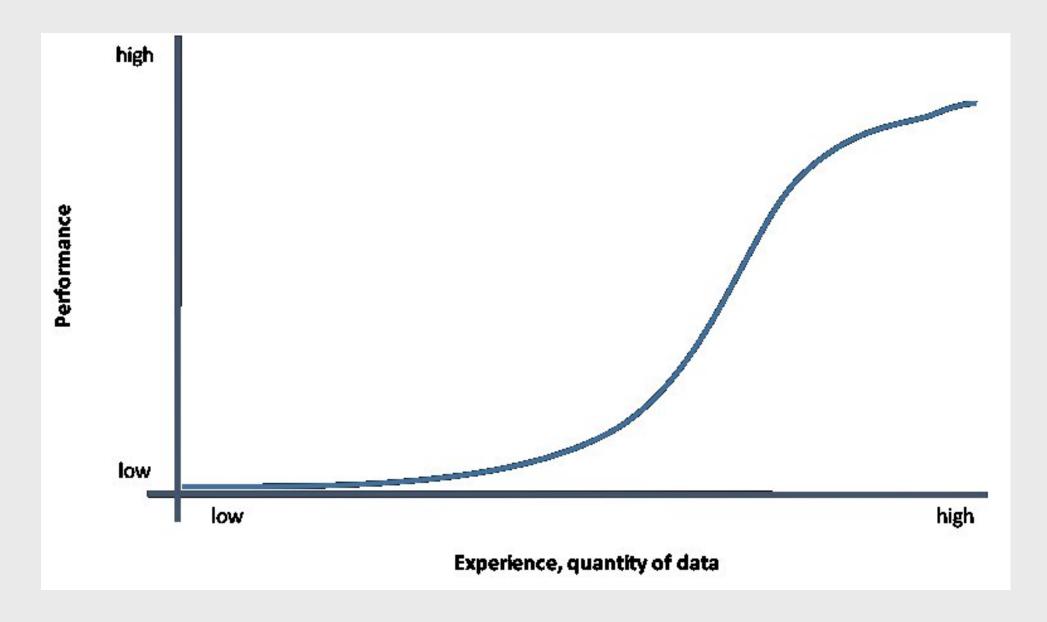




Virtuous Cycle of Al



Virtuous Cycle



Virtuous Cycle

Artwork: São Paulo

Date	Dataset size	Quantity of Classes	<u>p@1</u>
11/09/16	330	17	0.80
11/21/16	885	25	0.78
12/07/16	885	25	0.81
02/02/17	975	25	0.84
02/18/17	975	25	0.85
02/23/17	975	25	0.85
03/03/17	975	25	0.86
03/08/17	975	27	0.85
03/16/17	975	27	0.86
03/17/17	1170	37	0.79
03/24/17	1750	50	0.84
04/01/17	2090	51	0.79
04/18/17	3005	51	0.89
05/09/17	4495	51	0.91
05/31/17	4500	51	0.92
08/18/17	4500	51	0.92

Artwork: Mestiço

Date	Dataset size	Quantity of Classes	p@1
11/09/16	375	7	0.61
11/21/16	915	7	0.57
12/07/16	1115	21	0.63
02/02/17	1215	24	0.74
02/18/17	1390	22	0.72
02/23/17	1395	34	0.71
03/03/17	1455	38	0.76
03/08/17	1455	38	0.81
03/16/17	1530	46	0.75
03/17/17	1530	46	0.69
03/24/17	1840	48	0.75
04/01/17	1950	48	0.75
04/18/17	2625	49	0.82
05/09/17	3600	50	0.84
05/31/17	4245	50	0.88
08/18/17	4245	50	0.88

Artwork: Bananal

Date	Dataset size	Quantity of Classes	p@1
11/09/16	NA	NΑ	ΝA
11/21/16	NΑ	NΔ	NΑ
12/07/16	NA	NΑ	NA
02/02/17	195	15	0.51
02/18/17	340	25	0.65
02/23/17	340	25	0.52
03/03/17	340	25	0.60
03/08/17	340	25	0.47
03/16/17	340	25	0.51
03/17/17	340	25	0.46
03/24/17	815	39	0.71
04/01/17	1105	44	0.72
04/18/17	2750	46	0.85
05/09/17	3460	46	0.88
05/31/17	4535	64	0.89
08/18/17	4540	64	0.87

Improvement of accuracy and coverage during several iterations.

Artwork: **Porco**

Date	Dataset size	Quantity of Classes	p@1
11/09/16	265	9	0.73
11/21/16	730	14	0.80
12/07/16	730	14	0.75
02/02/17	740	15	0.76
02/18/17	875	29	0.83
02/23/17	875	29	0.80
03/03/17	925	32	0.76
03/08/17	925	32	0.83
03/16/17	925	32	0.74
03/17/17	1070	41	0.75
03/24/17	1450	45	0.83
04/01/17	1960	48	0.80
04/18/17	2795	49	0.87
05/09/17	5865	51	0.93
05/31/17	6870	52	0.94
08/18/17	6880	52	0.94

Artwork: Saudade

5.	5		
Date		Quantity of Classes	p@1
11/09/16	525	22	0.68
11/21/16	1195	25	0.83
12/07/16	1200	26	0.76
02/02/17	1340	27	0.81
02/18/17	1345	27	0.80
02/23/17	1450	33	0.82
03/03/17	1450	33	0.82
03/08/17	1450	33	0.81
03/16/17	1450	33	0.85
03/17/17	1450	33	0.85
03/24/17	1860	50	0.80
04/01/17	1950	50	0.83
04/18/17	2540	50	0.87
05/09/17	4020	50	0.90
05/31/17	4020	50	0.89
08/18/17	4270	50	0.90

Artwork: Lindonéia

	5	0 " (0)	01
Date	Dataset size	Quantity of Classes	p@1
11/09/16	N.A.	NA.	NA.
11/21/16	NA	NΔ	NA
12/07/16	NA	NΔ	NA
02/02/17	140	10	0.71
02/18/17	220	<u>1</u> 8	0.57
02/23/17	230	<u>1</u> 8	0.59
03/03/17	230	18	0.70
03/08/17	230	18	0.63
03/16/17	230	18	0.70
03/17/17	230	18	0.65
03/24/17	745	34	0.74
04/01/17	880	38	0.82
04/18/17	1135	38	0.79
05/09/17	3330	40	0.91
05/31/17	4145	40	0.93
08/18/17	4145	40	0.94

Iterando várias vezes



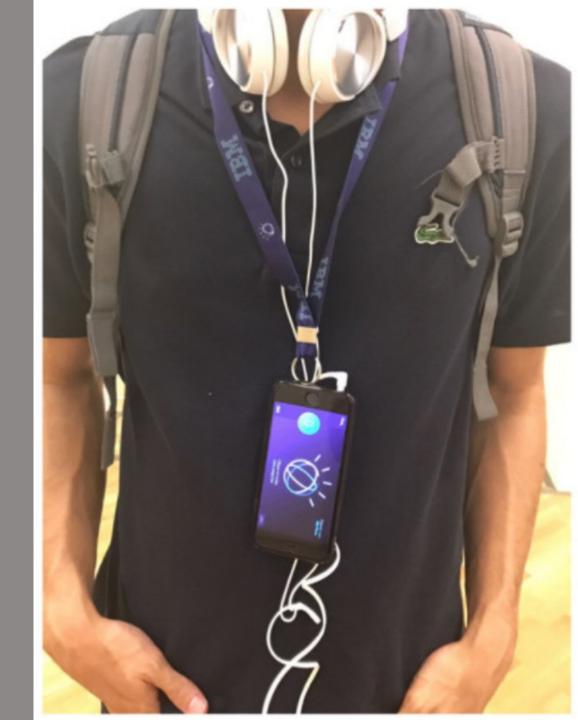




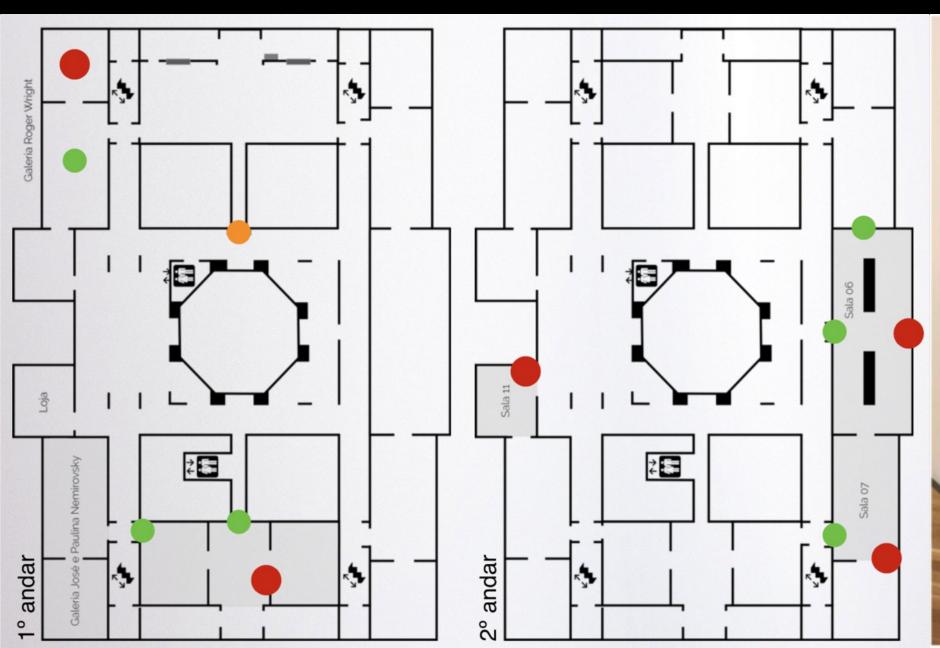


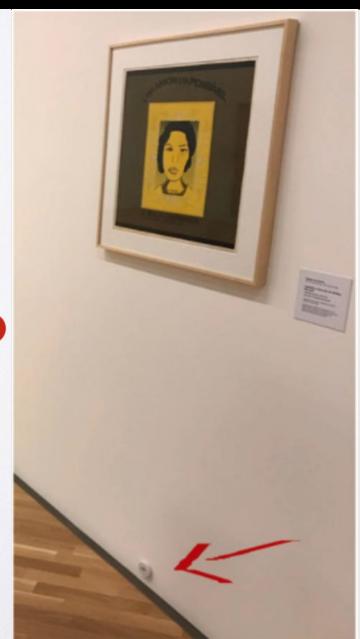
Visitor's Experience

- All visitors receive an equipment with cellphone and headset.
- This equipment **guides** visitors through the museum, and allow visitors to **talk** with pieces of art.



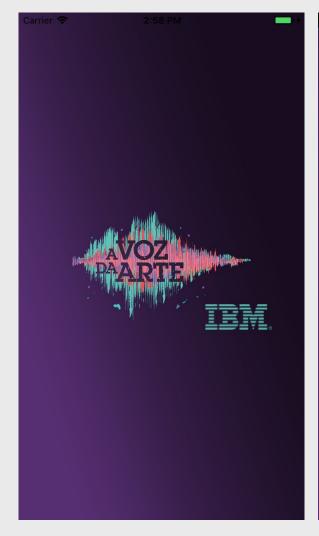
Beacons: location and artwork

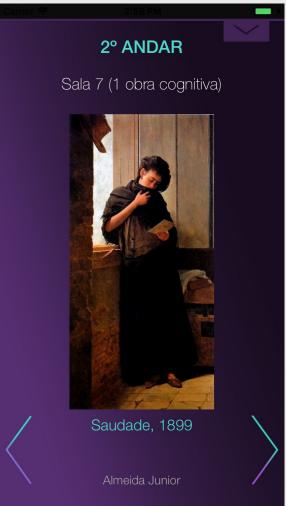






User Interface









The visitor asks a question about the piece of art, the system identifies what the intent behind that question is and provides an answer

















Timeline and Results



Results

- Earned media valued at US\$ 3.3 million;
- More than 60 PR stories, including a 4-minute segment on Brazil's leading soft news TV show;
- +6.4M views on YouTube and Facebook to date;
- 50% increase on the number of Pinacoteca's visitors in the first month;
- +26K people with direct contact with Watson to date

Awards

- Bronze Cannes Lions Mobile
- Bronze Cannes Lions Cyber
- Silver Cannes Lions Radio
- Grand Prix Brazil
- Bronze Innovative Use of Radio & Audio
- Graphite Pencil Communication & Interaction



https://www.youtube.com/watch?v=ogpv984_60A

Quem é a persona do seu problema?

Como é o mapa de empatia desta persona?

Quem são os stakeholders?

O que é importante você medir? Validar?

Ou o que é importante você mostrar que sabe fazer?