# **User Experience Design Project 2**



**ARTGUARD** is a UX Concept Design to help Museums and art galleries to overcome the impact of COVID-19.



# **Table Of Content**



Link To Prototype

# **SUMMARY**

**ARTGUARD** is a specialized website that will help museums and art galleries keep operating regardless of the Covid-19 restrictions.

The business opportunity has potential as it has a narrow target group yet is financially capable.

With a uniquely designed website, we can provide our customers a highly demanded services nowadays such as:

- Artifact's preservation digitally.
- Art digitalization.
- VR / XR art spaces.

The success expectation is high. According to the market research, I couldn't identify a similar website that provides the same package of services in one place.



- Desk Study. Link

- Primary Research.

**Define - What?** 

- Journey Map.

- Requirements.

- Problem Statement.

- Service Blueprint.

**Ideation - How?** 

- Flow-Diagram.

- Brainstorming.

- Affinity-walls.

# **Prototypes:**

- Interactive Prototype.

- Service Design Prototype.

# Iteration

- Design Sprint

# Facts

# **Key COVID impacts on museums**

#### Permanent closure

- · 30% of commercial galleries worldwide would close.
- 60% of commercial galleries with fewer than 5 employees would close.

#### Drop in attendance

There is a drop in museums and galleries attendance of 70% even after their reopening

#### Revenues decrease

• 40 - 80% of the museum's revenues decreased in comparison to 2019 revenues.

#### High Risk

- Risk of sales of museums collections due to the closures.
- There are concerns about the security and preservation of collections efforts.

#### budget cuts

7 in 10 museums expect budget cuts in the coming years.

### Layoff

· 53% of US museums have laid off or furloughed staff.



References

**UNESCO Report - April 2021** 



UNESCO estimates the number of

104,000

# **KEY TRENDS**

Museums have been particularly affected by the COVID-19

> For the institutions concerned, revenues have dropped

faced closures quarter of 2021.





















- Desk Study.

- Primary Research.

# **Define - What?**

- Journey Map.
- Requirements.
- Problem Statement.
- Service Blueprint.

# **Ideation - How?**

- Flow-Diagram.
- Brainstorming.
- Affinity-walls.

# **Prototypes:**

- Interactive Prototype.
- Service Design Prototype.

# **Iteration**

- Design Sprint

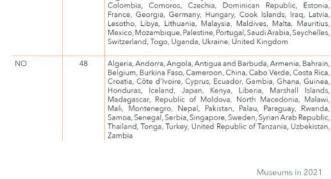
# Figures and Statistics - 01

### **Closure State**

#### Number of countries with closure measures

Situation in May 2020

Measures taken	Number of countries	States			
No	13	Antigua and Barbuda, Cook Islands Djibouti, Dominica, Marshall Islands Kiribati, Micronesia, Nauru, St-Kitts-and Nevis, St-Vincent-and-the-Grenadines Palau, South Sudan, Tuvalu			
Minor measures (restrictions) or no measures	11	Benin, Belarus, Burundi, Chad, Guinea, Liberia, Maldives, Niue, Somalia, Sweden, Tajikistan			
Partial measures (closure of part of the museums network)	14	Albania, Bangladesh, Burkina Faso, Ethiopia, Japan, Malaysia, Mali, Niger, Pakistan, Philippines, Sri Lanka, Thailand, United Republic of Tanzania, United States of America			
Measures for the entire network of museums (at least the public network)	157	All other countries  Museums in 2020			



85.000 museums worldwide, had been forced to close their

National museums closed in 2021 (as of March 2021)

Argentina, Austria, Azerbaijan, Botswana, Brazil, Canada, Chile,

doors for a time.

Measures Number

of countries

taken

YES



References

**UNESCO Report - April 2021** 



- Desk Study.
- Primary Research.

# **Define - What?**

- Journey Map.
- Requirements.
- Problem Statement.
- Service Blueprint.

# **Ideation - How?**

- Flow-Diagram.
- Brainstorming.
- Affinity-walls.

# **Prototypes:**

- Interactive Prototype.
- Service Design Prototype.

# Iteration

- Design Sprint

# Figures and Statistics - 02

## **Attendance State**

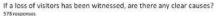
# Decrease in attendance at national museums between 2019 and

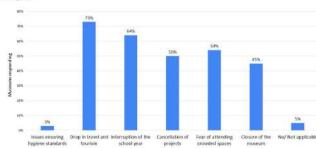
		2020	
Percentage of decrease	Number of countries	States	
0	4	Burkina Faso, Malawi, Palestine, Tonga	
1-20%	2	Paraguay, Samoa	
21-40%	4	Dominican Republic, Marshall Islands, Nepal, Rwanda	
41-60%	16	Andorra, China, Estonia, Germany, Iceland, Latvia, Lithuania, Mali, Russian Federation, Senegal, Switzerland, Sweden, Syrian Arab Republic, Thailand, United Republic of Tanzania, Zambia	
61-80%	25	Algeria, Austria, Bahrain, Cameroon, Colombia, Comoros, Croatia, Czechia, Ecuador, Ghana, Hungary, Japan, Kenya, Madagascar, Malaysia, Maldives, Mauritius, Mexico, Republic of Moldova, Mozambique, Portugal, Serbia, Turkey, United Kingdom, Uzbekistan	
81-90%	17	Argentina, Armenia, Cabo Verde, Chile, Costa Rica, Cyprus, France, Georgia, Guinea, Honduras, Iraq, Malta, Montenegro, Pakistan, Palau, Saudi Arabia, Seychelles	
91-100%	16	Angola, Antigua and Barbuda, Azerbaijan, Botswana, Brazil, Canada, Cook Islands, Côte d'Ivoire, Gambia, Lesotho, Liberia, Libya, North Macedonia, Togo, Uganda, Ukraine	

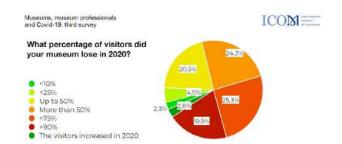
#### References

- UNESCO Report April 2021
- International council of museums

Many States reported decreases in visitor numbers of more than 90%



























- Desk Study.
- Primary Research.

# **Define - What?**

- Journey Map.
- Requirements.
- Problem Statement.
- Service Blueprint.

## **Ideation - How?**

- Flow-Diagram.
- Brainstorming.
- Affinity-walls.

# **Prototypes:**

- Interactive Prototype.
- Service Design Prototype.

# Iteration

- Design Sprint

# Figures and Statistics - 03

## **Revenues State**

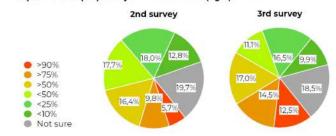
#### Decrease in revenue for national museums between 2019 and 2020

Percentage	Number of countries	States			
1-20%	8	Argentina, Austria, Brazil, China, Croatia, Czechia Mauritius, Rwanda			
21-40%	10	Botswana, Burkina Faso, Canada, Colombia, d'Ivoire, France, Mali, Madagascar, Syrian Republic, United Republic of Tanzania			
41-60%	10	Andorra, Cameroon, Cabo Verde, Estonia, Marsha Islands, Nepal, Palau, Senegal, Sweden, Thailand			
61-80%	21 Antigua and Barbuda, Dominican Republic, Georgia, Ghana, Iceland, Iraq, Japan, Kenya, Malaysia, Maldives, Malta, Mozambique, F Russian Federation, Samoa, Serbia, Sey Uqanda, Uzbekistan				
81-90%	6	Armenia, Azerbaijan, Guinea, Libya, Montenegro Pakistan			
91-100%	3	Lesotho, Liberia, North Macedonia			

# References

- UNESCO Report April 2021
- International council of museums

#### What percentage of its annual revenues does your institution expect to lose (left) / did your museum lose (right) in 2020?

























- Desk Study.
- Primary Research.

# **Define - What?**

- Journey Map.
- Requirements.
- Problem Statement.
- Service Blueprint.

# **Ideation - How?**

- Flow-Diagram.
- Brainstorming.
- Affinity-walls.

# **Prototypes:**

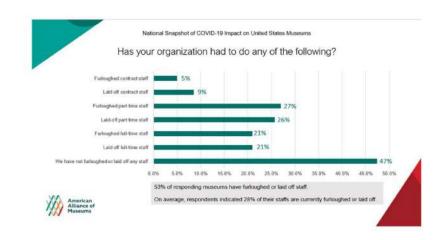
- Interactive Prototype.
- Service Design Prototype.

# **Iteration**

- Design Sprint

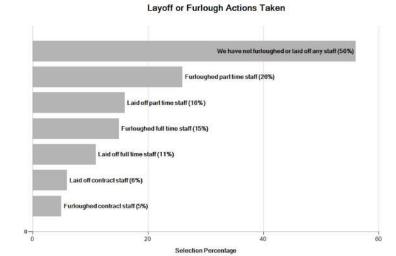
# Figures and Statistics - 04

# **Layoff or Furloughed State**

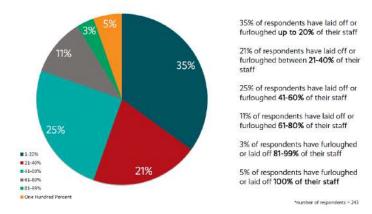




- UNESCO Report April 2021
- International council of museums
- American Alliance of Museums



#### What Percent of Staff are Currently Laid Off or Furloughed?

























- Desk Study.
- Primary Research.

# **Define - What?**

- Journey Map.
- Requirements.
- Problem Statement.
- Service Blueprint.

# **Ideation - How?**

- Flow-Diagram.
- Brainstorming.
- Affinity-walls.

# **Prototypes:**

- Interactive Prototype.
- Service Design Prototype.

# **Iteration**

- Design Sprint

# Figures and Statistics - 05

## Other Risks

	Inre	eats to museums				
Type of threat	Number of countries	States				
YES: general manage- ment, conservation, security, etc.	15	Andorra, Belgium, Burkina Faso, France, Germany, Hungary, Japan, Madagascar, Malawi, Mali Mauritius, North Macedonia, Portugal, Saudi Arabia, Zambia				
YES: reduction of revenues and organization of the museum	17	Antigua and Barbuda, Brazil, Canada, Chile, Côte d'Ivoire, Estonia, Honduras, Kenya, Liberia, Lithuania, Mexico, Mozambique, Palau, Sweden, Togo, Ukraine, United Kingdom				
YES: decrease in visitors and revenues	14	Armenia, Cameroon, Comoros, Cook Islands, Ghani Croatia, Czechia, Ghana, Gambia, Guinea, Iceland Samoa, Seychelles, Iceland, Singapore, Thailand				
YES: digital challenges	5	Austria, Botswana, Costa Rica, Cyprus, Lesotho				
YES: risk of closing, selling part of the collections	1	Colombia				
YES	12	Azerbaijan, Cabo Verde, Ecuador, Georgia, Libya Malaysia, Maldives, Palestine, Senegal, Switzerland, Uganda, Uzbekistan				
NO	20	Algeria, Angola, Argentina, Bahrain, China Dominican Republic, Iraq, Latvia, Malta, Marshall Islands, Montenegro, Nepal, Paraguay, Rwanda Serbia, Syrian Arab Republic, Tonga, Turkey, United Republic of Tanzania				

Impact of the crisis on surrounding communities					
Type of impact	Number of countries	States			
YES: Decrease in wages or loss of jobs (self-employed)	30	Algeria, Argentina, Armenia, Brazil, Cameroor Canada, Colombia, Comoros, Croatia, Ecuado Estonia, Gambia, Germany, Ghana, Hondura Iceland, Kenya, Malaysia, Maldives, Republic of Moldova, Mozambique, North Macedonia, Palat Portugal, Rwanda, Saudi Arabia, Sweden, Togo Uganda, United Kingdom			
YES: tourism, shops, craftsmen, hotels, etc.	18	Austria, Botswana, Burkina Faso, Cabo Verde, Chile, Cyprus, France, Guinea, Hungary, Liberia Madagascar, Mauritius, Mexico, Samoa, Senegal, Serbia, Seychelles, Zambia			
YES: community linkage issues, school visits	4	Côte d'Ivoire, Dominican Republic, Malawi, Mali			
YES	8	Belgium, Costa Rica, Czechia, Japan, Lesotho, Libya, Singapore, Switzerland			
NO	25	Andorra, Angola, Antigua and Barbuda, Azerbaijan, Bahrain, China, Cook Islands, Georgia, Iraq, Latvia, Lithuania, Malta, Marshall Islands, Montenegro, Nepal, Pakistan, Palestine, Paraguay, Syrian Arab Republic, Thailand, Tonga, Turkey, Ukraine, United Republic of Tanzania, Uzbekistan			



- UNESCO Report April 2021
- · International council of museums



















- Desk Study.
  - Primary Research.

# **Define - What?**

- Journey Map.
- Requirements.
- Problem Statement.
- Service Blueprint.

# **Ideation - How?**

- Flow-Diagram.
- Brainstorming.
- Affinity-walls.

# **Prototypes:**

- Interactive Prototype.
- Service Design Prototype.

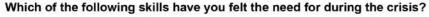
# **Iteration**

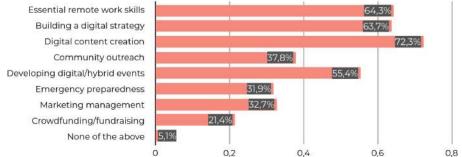
- Design Sprint

# Challenges and Skills

# **Shifting Towards Digitalization**

What Has Been the Largest Challenge around Shifting to Digital Programming?	%
Audience's access to technical requirements	54
Equipment	54
Technical ability	50
Capacity	48
Artist and staff's access to technical requirements	46
Payment model	37
Other	35
Software	28







- UNESCO Report April 2021
- · International council of museums















- Desk Study.
- Primary Research.

# **Define - What?**

- Journey Map.
- Requirements.
- Problem Statement.
- Service Blueprint.

# **Ideation - How?**

- Flow-Diagram.
- Brainstorming.
- Affinity-walls.

# **Prototypes:**

- Interactive Prototype.
- Service Design Prototype.

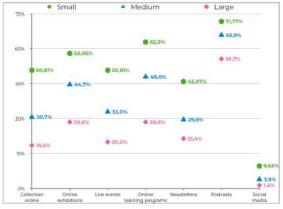
# **Iteration**

- Design Sprint

# Users Behaviour

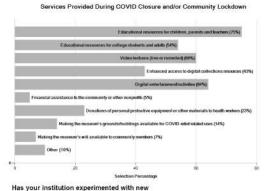
# **Digital Activities**

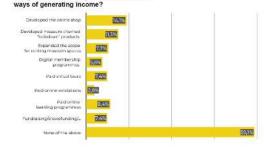
#### What digital services does your museum provide? % "No" answer

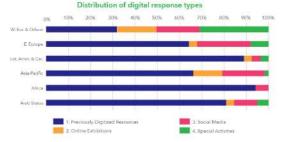


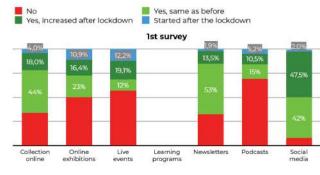
This graph shows a comparison of the digital services provided by museums of different sizes and illustrates the percentages of negative responses. The higher a category is located, the fewer museums offer a certain digital service. The comparison highlights the aforementioned differences between large, medium and small museums in terms of digital presence and activities due to a certain lack of human and financial resources.

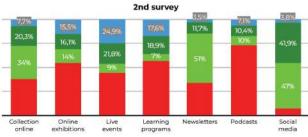
Significant differences also emerge when comparing different funding structures, as the second report of October 2020 already indicated. The museums that have shown the greatest reactivity in digital communication are those that primarily rely on earned income and endowment funds, which are also the two types of museums that invest the most resources in this field.





























- Desk Study.
- Primary Research.

# **Define - What?**

- Journey Map.
- Requirements.
- Problem Statement.
- Service Blueprint.

## **Ideation - How?**

- Flow-Diagram.
- Brainstorming.
- Affinity-walls.

# **Prototypes:**

- Interactive Prototype.
- Service Design Prototype.

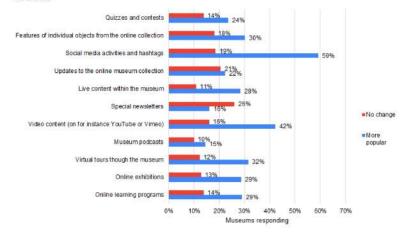
# **Iteration**

- Design Sprint

# Users Behaviour

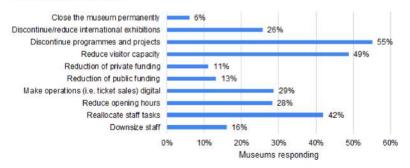
# **Digital Activities**

# Online services that visitors are most interested in

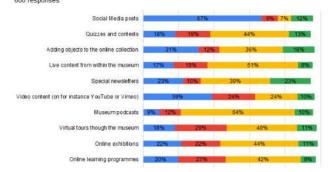


### Recent or planned operational changes

1647 answers from 599 respondents



### How online services have changed since COVID19



Increased existing service

New service

We do not offer this

They did not change due to COVID 19





















- Desk Study.
  - Primary Research.

# **Define - What?**

- Journey Map.
- Requirements.
- Problem Statement.
- Service Blueprint.

## **Ideation - How?**

- Flow-Diagram.
- Brainstorming.
- Affinity-walls.

# **Prototypes:**

- Interactive Prototype.
- Service Design Prototype.

# Iteration

- Design Sprint





# Experts Interviews

## Quotes

National Gallery of Canada director Sasha Suda

- · The revenues go to zero overnight.
- · We laid off our staff so that they would be eligible for government aid programs.

**Curator of Old Mill Heritage Museum Rick Nelson** 

We're going to take a hit. we're completely dependent on

**Art Gallery of Hamilton president Shelley Falconer** 

We're one of those institutions that relies heavily on

















- Desk Study.
  - Primary Research.

# **Define - What?**

- Journey Map.
- Requirements.
- Problem Statement.
- Service Blueprint.

## **Ideation - How?**

- Flow-Diagram.
- Brainstorming.
- Affinity-walls.

# **Prototypes:**

- Interactive Prototype.
- Service Design Prototype.

# **Iteration**

- Design Sprint

# Quotes

01

# Tristram Hunt, Director of the Victoria & Albert Museum (United Kingdom)

"I hate this pandemic: it has been a terrible year, there
has been very few good upsides, but having all these
digital materials available to support the professional
development of teachers is one of the good outcomes.
 We can reach many more teachers now and we will
keep doing that"

02

# Anne-Marie, Director of the National Council of Museums of Lebanon

"The museum is important in its role of social cohesion, sense of citizenship and belonging. This crisis may mean that museums will no longer be considered, will perhaps be less important, because priorities will undoubtedly lie elsewhere. Everything possible must be done to ensure that museums do not die."



## **Recommendations**

- UNESCO Recommendation concerning the Protection and Promotion of Museums and Collections, their Diversity, and their Role in Society.
- UNESCO's role is more than ever to support the Member States in developing the most appropriate measures in favor of the museum sector, through capacity development, considering the social role of museums and digital development.







- Desk Study.

- Primary Research. Link

**Define - What?** 

- Journey Map.
- Requirements.
- Problem Statement.
- Service Blueprint.

# **Ideation - How?**

- Flow-Diagram.
- Brainstorming.
- Affinity-walls.

# **Prototypes:**

- Interactive Prototype.
- Service Design Prototype.

# Iteration

- Design Sprint

# Available Technology and solutions

## **AR technology**

- Augmented Reality (AR) is a technology that combines virtual information with the real world.
- Example: Salmi AR

### **VR technology**

- Virtual reality (VR) is a simulated experience that can be similar the real world.
- Example: vrallart

## Projection mapping / 360° projection mapping

- Projection mapping is a technology that Projects the light onto any surface, transforming it into a display.
- Example: United States Holocaust Memorial Museum and Barco

#### **Real-time tracking and projection mapping**

- Technology, which detects positions of the target objects that are in motion, even at high speed, and then projects content onto them.
- Example: Panasonic

Photogrammetry -3d laser scanning - Lidar..





















- Desk Study.
- Primary Research.

# **Define - What?**

- Journey Map.
- Requirements.
- Problem Statement.
- Service Blueprint.

# **Ideation - How?**

- Flow-Diagram.
- Brainstorming.
- Affinity-walls.

# **Prototypes:**

- Interactive Prototype.
- Service Design Prototype.

# Iteration

- Design Sprint

# Comparison chart of the competitions' product features.

Features		Competitors					
	reatures	Barco	Salmi	VRallart	Soe	US	
	Museums focus	×	×	×	×		
	Web design	×	×	×	×		
S	Live streaming	ightharpoons	×	×	×		
Services	Preservation work	×	×	×		$\overline{\mathbf{v}}$	
er	Virtual tours	×	$\overline{\mathbf{v}}$		×		
.03	Marketing	×		×	×		
	VR / AR	×	<u> </u>		X		
Date	of establishment	1934	2019	2018	2017	2021	







- Desk Study.
- Primary Research.

# **Define - What?**

- Journey Map.
- Requirements.
- Problem Statement.
- Service Blueprint.

# **Ideation - How?**

- Flow-Diagram.
- Brainstorming.
- Affinity-walls.

# **Prototypes:**

- Interactive Prototype.
- Service Design Prototype.

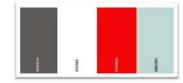
# **Iteration**

- Design Sprint

# **COMPETITORS VISUAL PREFERENCES**

#### BAROC

# Colour scheme:



### FONT:

 museo-sans sans-serif

# LOGO:



#### SALMI



 PTSansRegular-Roboto-Arial-Helvetica-sans-serif



#### VRALLART



Open Sans



SOE



DM Sans', sans-serif











# **EMPATHY - WHY?** - Desk Study. - Primary Research. **Define - What?** - Journey Map. - Requirements. - Problem Statement. - Service Blueprint. **Ideation - How?** - Flow-Diagram. - Brainstorming. - Affinity-walls. **Prototypes:** - Interactive Prototype. - Service Design Prototype. Iteration - Design Sprint

# **SWOT ANALYSIS**

☐ No direct competitors mean competing with

many indirect competitors.



☐ Potential of expansion.

☐ Projected increasing demand due to Covid-19

☐ Potential of new business opportunities.

- ☐ Narrow target groups.
- ☐ Target groups are financially capable.
- ☐ No direct competitors.
- ☐ All-In-One solution.

- ☐ Require high level of management.
- ☐ The hiring process is challenging.





0

**SWOT** 



- Desk Study.
- Primary Research.

# **Define - What?**

- Journey Map.
- Requirements.
- Problem Statement.
- Service Blueprint.

# **Ideation - How?**

- Flow-Diagram.
- Brainstorming.
- Affinity-walls.

# **Prototypes:**

- Interactive Prototype.
- Service Design Prototype.

# **Iteration**

- Design Sprint



# Interviews



- Take away
- It's not only about the art. It's about the place and memories too.
- Hate not to be allowed to take pictures.
- If crowded, I feel rushed and don't enjoy it.
- Limited knowledge about museums' digital services.
- Love to try online tours if affordable.
- Love to have a special discount for bulk tickets. (Tour leader)







- Desk Study.

- Primary Research.

# **Define - What?**

- Journey Map.
- Requirements.
- Problem Statement.
- Service Blueprint.

# **Ideation - How?**

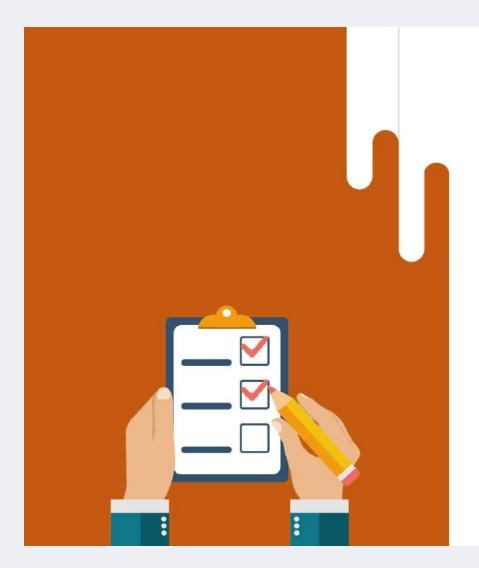
- Flow-Diagram.
- Brainstorming.
- Affinity-walls.

# **Prototypes:**

- Interactive Prototype.
- Service Design Prototype.

# Iteration

- Design Sprint



# Survey

### Take away



- 55 % want to try virtual tours
- 50 % Would pay for online virtual tour

#### 50 % of NO answer:

- I'm not interested anymore in the virtual lifestyle. I need to visit there.
- $\bullet$  50% OF the NO answers want to try the product live first before I judge.



- Desk Study.
- Primary Research.

# **Define - What?**

- Journey Map.
- Requirements.
- Problem Statement.
- Service Blueprint.

# **Ideation - How?**

- Flow-Diagram.
- Brainstorming.
- Affinity-walls.

# **Prototypes:**

- Interactive Prototype.
- Service Design Prototype.

# **Iteration**

- Design Sprint



"Closing a museum to save money s like holding your breath to save kygen..." - Nanette L. Avery

Age: 55 years old.

Family: Sara(Wife), 2 Kids, Marc - David. Education: Professor of Heritage History Occupation: CEO of Danio Museum

Location: Danio Island, Canada

IT & Internet

International network

# MOTIVATIONS

- History
- Ambition
- Curiousity

### History, Present, and the Future

Mark Goodman spent his whole life with history. His father was an archaeologist, and he used to tell him stories about his findings and take him to visit the site sometimes.

When Goodman grew up, he pursued his passion and completed his studies as a professor of archaeology.

After graduation, he worked in different positions till he became the CEO of Danio museum.

It was my pleasure to be in charge of such a wonderful place. The museum is my second home, and so often, my family joins me to enjoy the exhibitions.

We have a great responsibility towards the local society and the international visitors as well.

When covid-19 has hit us and restrictions applied, we suddenly felt like fish jumped out of the water. Everything has canceled, and everyone was in shock.

We are communicating with all parties, authorities, artists, and partners. We all agree to face the crisis. However, what we are dealing with is something big.

The crisis revealed our hidden weakness. No one expected this to happen. Therefore, we didn't plan for an emergency exit.

As they say, better late than never, we are now doing our best to find solutions that enable the museum to continue its vital role.

We increased our online social activities, and daily we have an open discussion about what we can do to maintain a stable income. Lots of ideas, but we need external resources to help us. Our experiences are in different areas than what we want to achieve.

We are not alone in this situation. Almost all mid to small museums suffer from the same thing.

We all hope to get back to regular life soon, or precisely, to be prepared for the new normal.

# **GOALS**

- Increase the museum income.
- Build a robust strategy that stands against future challenges.























- Desk Study.
- Primary Research.

# **Define - What?**

- Journey Map.
- Requirements.
- Problem Statement.
- Service Blueprint.

## **Ideation - How?**

- Flow-Diagram.
- Brainstorming.
- Affinity-walls.

# **Prototypes:**

- Interactive Prototype.
- Service Design Prototype.

# **Iteration**

- Design Sprint

# Scenario

Goodman, the CEO of Danio Museum, has an emergent mission to increase the museums' online activities to compensate for the income loss caused by the Covid-19 crisis.

Considering the available resources, he had no choice other than to make a shift in the staff roles.

The booking department, for example, had to publish social media posts about the museum's activities, and tour leaders started to record tour videos using available cameras.

Although everyone was doing his best, the outcome wasn't as expected on both levels of quality and productivity.

Goodman can't blame the staff for something they didn't train to do.

With some resource management and donations, Goodman got a budget to hire freelancers to do some tasks. However, there were few challenges regarding commitment, payments, and accountability.

Goodman knows that he can't contract a company to do the job because of the limited budget. Besides, as far as he knows, no one company can offer the services that the museum needs.

Goodman wishes if there is a specialized company in the museums business that offers multi-services. Goodman needs to build a comprehensive digital strategy, including a modern website, social media promotion, live streaming, and events marketing.







- Desk Study.
- Primary Research.

# **Define - What?**

- Journey Map.
- Requirements.
- Problem Statement.
- Service Blueprint.

# **Ideation - How?**

- Flow-Diagram.
- Brainstorming.
- Affinity-walls.

# **Prototypes:**

- Interactive Prototype.
- Service Design Prototype.

# Iteration

- Design Sprint

# **USE-CASES**

		Sub-use cases
Use Case 1	Live streaming exhibition or an event	<ul><li>24/7 streaming</li><li>Specific Exhibition</li><li>Only opening days.</li></ul>
Actor	Museum / art gallery	
Flow	<ul> <li>The museum needs to live-stream its event</li> <li>The Accountable person contacts our webs</li> <li>Our help center receives and processes the</li> </ul>	site and requests a quote.

Use Case 2	Create a virtual tour
Actor	Museum / art gallery
Flow	<ul> <li>The museum needs to create a virtual tour and make it available for visitors online.</li> <li>The Accountable person reviews the pricing packages.</li> <li>He contacts the help center for further clarifications.</li> <li>The help provides all necessary information using chat or Emails.</li> </ul>





- Desk Study.

- Primary Research.

**Define - What?** 

- Journey Map.

- Requirements.

- Problem Statement.

- Service Blueprint.

**Ideation - How?** 

- Flow-Diagram.

- Brainstorming.

- Affinity-walls.

# **Prototypes:**

- Interactive Prototype.

- Service Design Prototype.

# **Iteration**

- Design Sprint

# **USE-CASES**

# Sub-use cases • Renew exist

Use Case 3	Build website	<ul><li>Renew existed website</li><li>Create an APP</li><li>E-commerce</li></ul>
Actor	Museum / art gallery	
Flow	<ul> <li>The museum needs to create a new websi its customers and artists.</li> <li>The Accountable person fills a form.</li> <li>The help center processes the form data a</li> </ul>	te as an alternative way to communicate with nd sends the reply.

## Sub-use cases

Use Case 4	Create digital format of the artifacts.	<ul><li>Photogrammetry copies</li><li>AR solutions</li><li>3d prints</li></ul>
Actor	Museum / art gallery	
Flow	<ul> <li>The museum needs help in artifacts present</li> <li>The Accountable person contacts the help</li> <li>The help provides all necessary information</li> </ul>	center.







- Desk Study.
- Primary Research.

# **Define - What?**

- Journey Map. Miro Board
- Requirements.
- Problem Statement.
- Service Blueprint.

# **Ideation - How?**

- Flow-Diagram.
- Brainstorming.
- Affinity-walls.

# **Prototypes:**

- Interactive Prototype.
- Service Design Prototype.

# **Iteration**

- Design Sprint

# **CUSTOMER JOURNEY MAP**



#### Scenario

Mark Goodman needs to find a service provider to implement a comprehensive digital strategy for the museum he manages.

#### Expectations

- Variety of services/options and hopefully all-on-one solution.
- · Clear information about all services,
- · Ability to start right away.
- · To be trustworthy.

· · · · · · · · · · · · · · · · · · ·	Pre-Interaction			Interaction			Post-Ir	nteraction
Phase of journey / Stages	Research & Discovery & Awareness	Explore	Share & Follow	Connect an external Devices	Contact	Buying	Follow up	Re-Target marketing
Over Time	1 - 2 minutek	1 - 10 minutes	10 Seconds	1 - 2 minutes	Immediately	1 – 10 minutare	immediately	Continuously
actions / Steps	Browsing the web.     Lising Social Media Apps.     Taking with thirds or criticaguse.     Having a walk or in a waring lobby.     Watching TV or reading Magazina.	Escriptor the selection     Mestigate between pages     Escriptor services     Check out the FAG section     Espoint in the FAG section     Espoint the Section selection     Spoint SEC (Doc.	Follow dur social media     Share the content.	• Use special devices.	Fill contact us form.     Live Chat     Calling.     Schedule an appointment for inquiry.	Buy an art pece from the store.     Book a ticket for air event.     Complete purthase process.	Coidd	te arything
Touchpoint	Brand presence on social and traditional media.     Word of mouth.     The Webste     Peedback and reviews.     OR Code and Presset Makerials.	CTA and navigational elements.     The actual content.     The testimonials.		Settings     Compatibility across devices	Contact from,     Contact us page.     Chall feature     Booking calendar.     QR Codu.	Ant store page. Can' & Checkou page. Can' & Checkou page. Customer Support. Call Center. Reviews.	Emails confirmation.     SMS confirmation.     Chall feature.     Customer help page.	New events email notification. Direct calls. Free offers. New services announcements. Polis and questionnaire. Unline free webmars.
Channels	- Seasch dendar Chermels - Rectal Media Chermels - Relet tol - UN Content - You's Reds - Trickness Adds - Brecheres Adds - Brecheres Adds	Michine     Tablets     Honoritated develops	<b>P</b>			Γ	コ	
Customer Thought	Sound like a variety of options     Hour does it work?     Is at local service, or they can do miernational work?     This might be cur ned vestigand plan     Who provide this service?	How does it work? Can I save it for later? Can I save it for later? Can I save it fifth a mend? Line I sake make questions? I need a customized service?	I famow someone who will be interested. Larts share my fotowledge It is always fan to de it with a company. I need to share it for my future raference.	That was easy	Is it a Robot chat? How much does the call cost? What will happen when I scan the code? How long as I stave to war? Will get booking confirmation? Where and How?	What payment methods can I use? How does the delivery work? Is it flushout they returned policy? What about the returned policy? Is there a descount for groups or students? How long does it takes to receive my shift?	I will bookmark this email     Nice to have all my order datalis.     Nice to have a direct link to all possible actions.	I will share this one     Who also might be interested.
Customer Feeling	Hope Optimisec Curiosity	Fun Enjoyment Questioner	Surprised Fandorn Proud	Appreciation Grateful	Appreciation Grateful Questioner	Trust Confidence	Comfort Releved	<b>⊕</b> Excited
Process ownership	Proglammers / SEO experts     Marketing department	Programmers / SEU experts Marketing department Tachrical Support Business owner.	Programmers / SEO experts     Marketing department:	Programmers     Technical Support.	Customer support     Technical Support     Programmers     Sales departmene     Call cause.	Contomer support.     Technical Support.     Programmers     Salve department     Call cents     Accounting department     Copport department     Marketing department	Eustomer support.     Sales department     Call centur     Aecounting department     Marketing department	Manheting deportment     Call center     Service distigner & develop
Opportunities	Create Google streamks for the Website     Rank No.1 in the first SERP     Getting support from social media influencers.	Make the instrumons it clear as possible.     Duild a cohesyle margetion system.     Provide different channels for maching out to customer support.     Frequently optate the FAG section.	Increase awareness using unusual ways.	. • Keep compatibility with new devices	Minimize react time to a customer's request.	Reduce delivery time.     Ability to re-watch the streaming.     Encourage customers to rate and give feedback.     Surprise gifts.	Thank you gift to encourage loyalty and word of mouth.	Neep It active, interesting, and not annoying.













- Desk Study.
- Primary Research.

# **Define - What?**

- Journey Map.
- Requirements.
- Problem Statement.
- Service Blueprint.

# **Ideation - How?**

- Flow-Diagram.
- Brainstorming.
- Affinity-walls.

# **Prototypes:**

- Interactive Prototype.
- Service Design Prototype.

# Iteration

- Design Sprint

# Requirements

Business Requirements (Opportunity)	User Requirements	Functional Requirements	Quality-of-Service Requirements
To provide a complete solution for mid-size museums/galleries to help them increase their income and build a digital Solutions.	Stream live events.  Sell artwork online.  Users visit the museum virtually.  Reach a wider audiences.  Digitalize the artifacts.  Marketing/awareness campaigns.	<ul> <li>The website serves as a hub of multidisciplinary digital services.</li> <li>☐ Hiring talents from the following fields:</li> <li>• 3d contents creation.</li> <li>• Marketing.</li> <li>• Public relationships.</li> <li>• Social media.</li> <li>• UX design.</li> <li>• Broadcasting / podcasting.</li> <li>• Programming.</li> </ul>	<ul> <li>Agility</li> <li>Mobility</li> <li>Customizability.</li> <li>Contracts schemes.</li> <li>Legal and privacy documents.</li> </ul>

- Desk Study.
- Primary Research.

# **Define - What?**

- Journey Map.
- Requirements.
- Problem Statement.
- Service Blueprint.

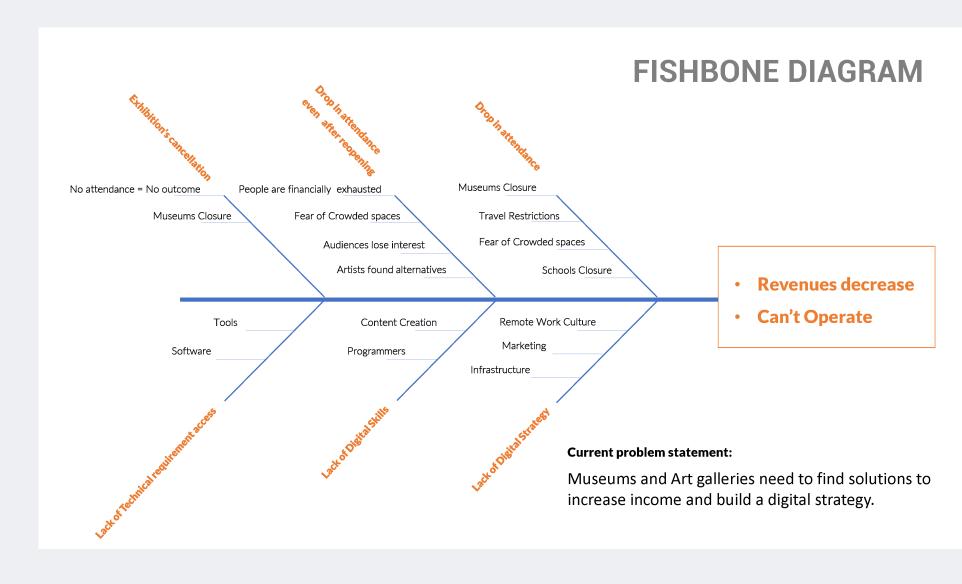
# **Ideation - How?**

- Flow-Diagram.
- Brainstorming.
- Affinity-walls.

# **Prototypes:**

- Interactive Prototype.
- Service Design Prototype.

# **Iteration**

















- Desk Study.
- Primary Research.

# **Define - What?**

- Journey Map.
- Requirements.
- Problem Statement.
- Service Blueprint. Miro Board

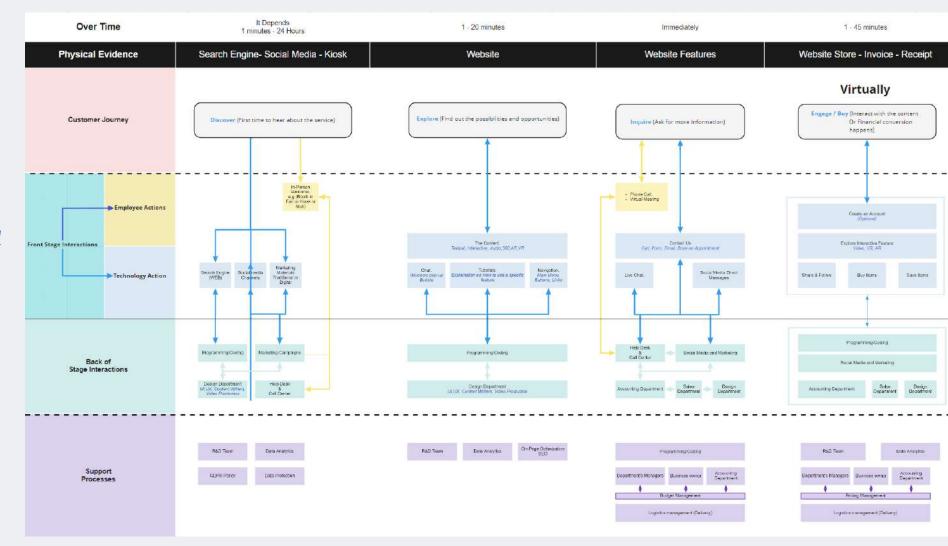
# **Ideation - How?**

- Flow-Diagram.
- Brainstorming.
- Affinity-walls.

# **Prototypes:**

- Interactive Prototype.
- Service Design Prototype.

# **Iteration**











- Desk Study.
- Primary Research.

# **Define - What?**

- Journey Map.
- Requirements.
- Problem Statement.
- Service Blueprint.

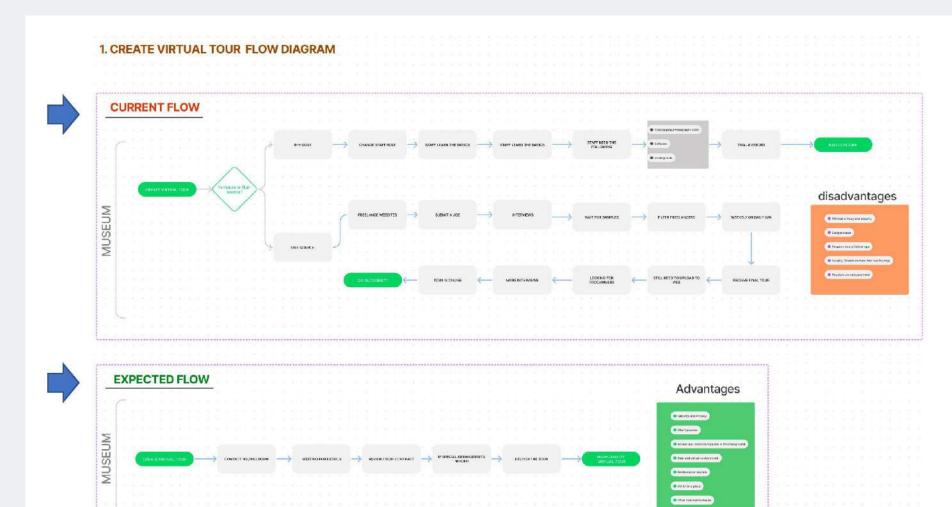
# **Ideation - How?**

- 🌔 Flow-Diagram. <u>Figma Board</u>
  - Brainstorming.
  - Affinity-walls.

# **Prototypes:**

- Interactive Prototype.
- Service Design Prototype.

# **Iteration**











- Desk Study.
- Primary Research.

# **Define - What?**

- Journey Map.
- Requirements.
- Problem Statement.
- Service Blueprint.

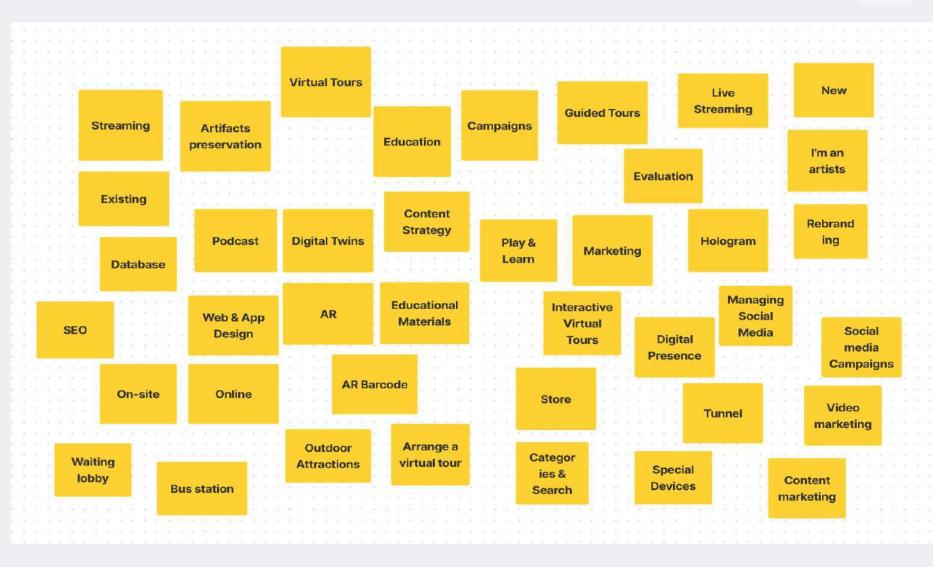
# **Ideation - How?**

- Flow-Diagram.
- Brainstorming. Figma Board
- Affinity-walls.

# **Prototypes:**

- Interactive Prototype.
- Service Design Prototype.

# **Iteration**









- Desk Study.
- Primary Research.

# **Define - What?**

- Journey Map.
- Requirements.
- Problem Statement.
- Service Blueprint.

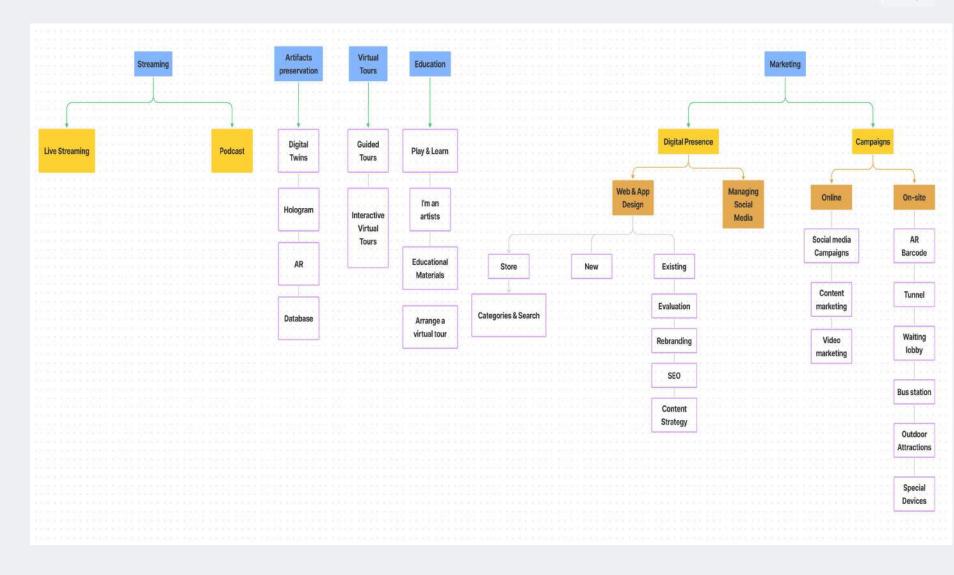
# **Ideation - How?**

- Flow-Diagram.
- Brainstorming.
- Affinity-walls. Figma Board

# **Prototypes:**

- Interactive Prototype.
- Service Design Prototype.

# **Iteration**











- Desk Study.
- Primary Research.

# **Define - What?**

- Journey Map.
- Requirements.
- Problem Statement.
- Service Blueprint.

# **Ideation - How?**

- Flow-Diagram.
- Brainstorming.
- Affinity-walls.

# **Prototypes:**

- Interactive Prototype. Prototype Link
- Service Design Prototype.

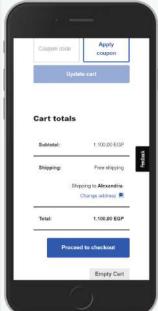
# **Iteration**

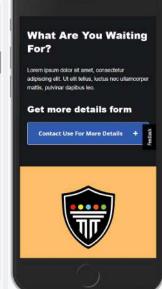


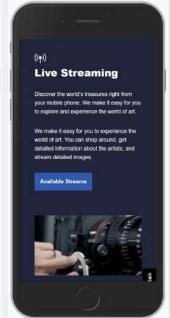


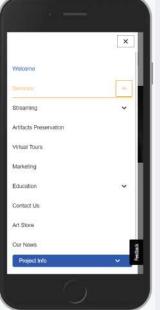












- Desk Study.
- Primary Research.

# **Define - What?**

- Journey Map.
- Requirements.
- Problem Statement.
- Service Blueprint.

## **Ideation - How?**

- Flow-Diagram.
- Brainstorming.
- Affinity-walls.

# **Prototypes:**

- Interactive Prototype.
- Service Design Prototype.

# Iteration

- Design Sprint

# Prototype plan

I am testing how easy or difficult it is for participants to complete the task with minimal help. Also, I need to collect as much as I can of bugs or obstacles the participants might encounter to adjust the technique accordingly.

### The scenario will be like that:

- 1. The participants see a QR code. (in a poster or social media)
- 2. Scan it and navigate to a webpage.
- 3. Then, interact with a 3d model in the browser.
- 4. Then they try to place the object in their own space. Using AR.
- I have prepared a rating and commenting system so the participants can provide their feedback.







- Desk Study.
- Primary Research.

# **Define - What?**

- Journey Map.
- Requirements.
- Problem Statement.
- Service Blueprint.

# **Ideation - How?**

- Flow-Diagram.
- Brainstorming.
- Affinity-walls.

# **Prototypes:**

- Interactive Prototype.
- Service Design Prototype. Link

# **Iteration**

- Design Sprint

# RESULTS

Tasks	Participant 1	Participant 2	Participant 3
Scan the QR code and find the target	YES	YES	YES
Manipulate the 3d object in the browser	YES	YES	YES
Ability to use the AR feature	NO	NO	NO
Usage of the feedback form	YES	NO	NO
What did you think about the idea?	Good	Good	Good
Do you think it is handy?	YES	YES	YES
Would you use it if you find it available on a website?	YES	YES	YES



# **IMPROVEMENTS**

Based on the feedback and the test results, I need to work on two improvements:

· Add details to the objects. (Done)

I took a look around the website and everything seems very high quality and professional, excellent world For this AR prototype, I thought that it would be interesting to have some details about the models available. like work name, author, medium and physical dimensions to get more information about the pieces

· Offer alternatives so that the AR feature does not depend on the user's device capabilities. (This needs months of learning new programming languages)

Here is a link to show the Before / After improvements.

#### AFTER FEEDBACK



# Art 01 Author: Mohamed Sallam

Availability: Print / Download

Size: 30.48 x 20.32 cm











- Desk Study.
- Primary Research.

# **Define - What?**

- Journey Map.
- Requirements.
- Problem Statement.
- Service Blueprint.

# **Ideation - How?**

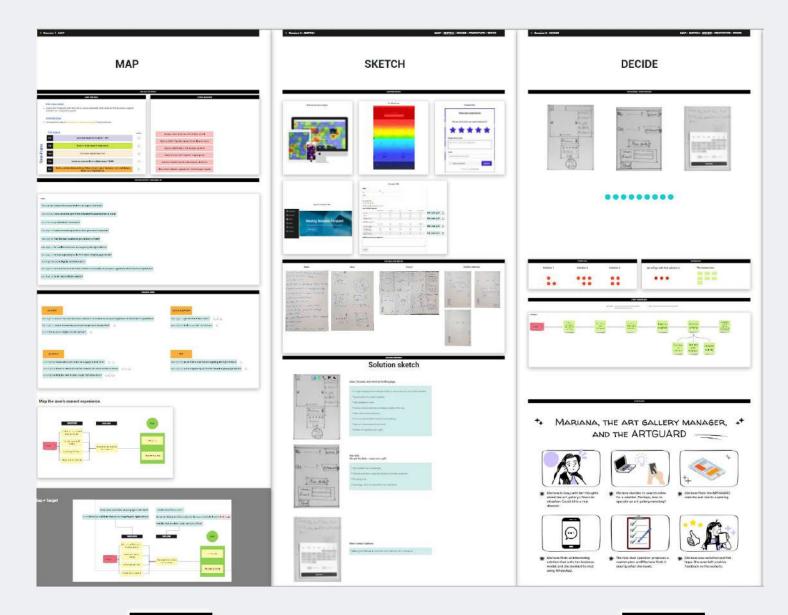
- Flow-Diagram.
- Brainstorming.
- Affinity-walls.

# **Prototypes:**

- Interactive Prototype.
- Service Design Prototype.

# **Iteration**

- Design Sprint Miro Board







- Desk Study.
- Primary Research.

# **Define - What?**

- Journey Map.
- Requirements.
- Problem Statement.
- Service Blueprint.

# **Ideation - How?**

- Flow-Diagram.
- Brainstorming.
- Affinity-walls.

# **Prototypes:**

- Interactive Prototype.
- Service Design Prototype.

# **Iteration**

- Design Sprint Prototype Link



