

Power BI

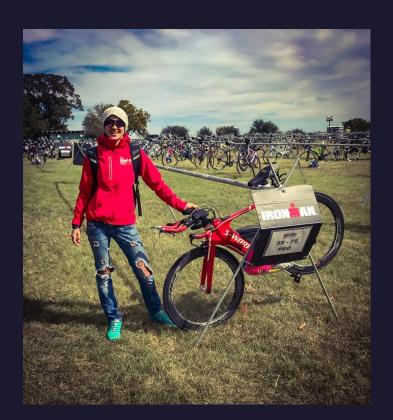
Report Design Process



About Me









Agenda

What is Power BI & UX/UI Design

Report Design Process

UX laws & Principles







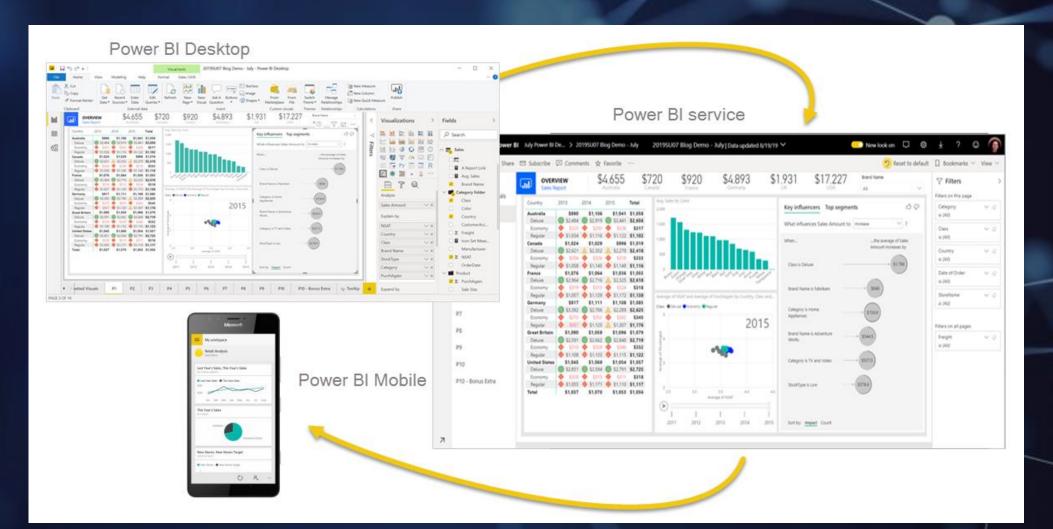


What is Power BI?

Power BI is a technology-driven business intelligence tool provided by Microsoft for analyzing and visualizing raw data to present actionable information.



What is Power BI?





What is UX/UI Design?

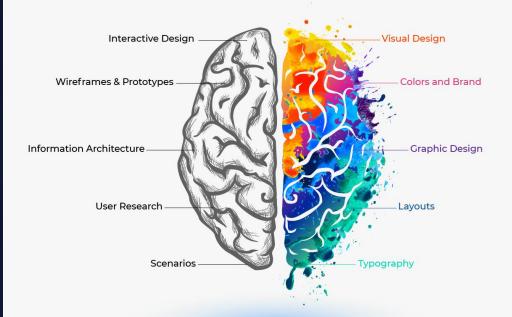
UX Design is a process of creating products or services that is easy to use and enjoyable for a user.

Ul Design, on the other hand, refers to the actual interfaces with which users engage.



What is UX/UI Design?

UX vs 🔱



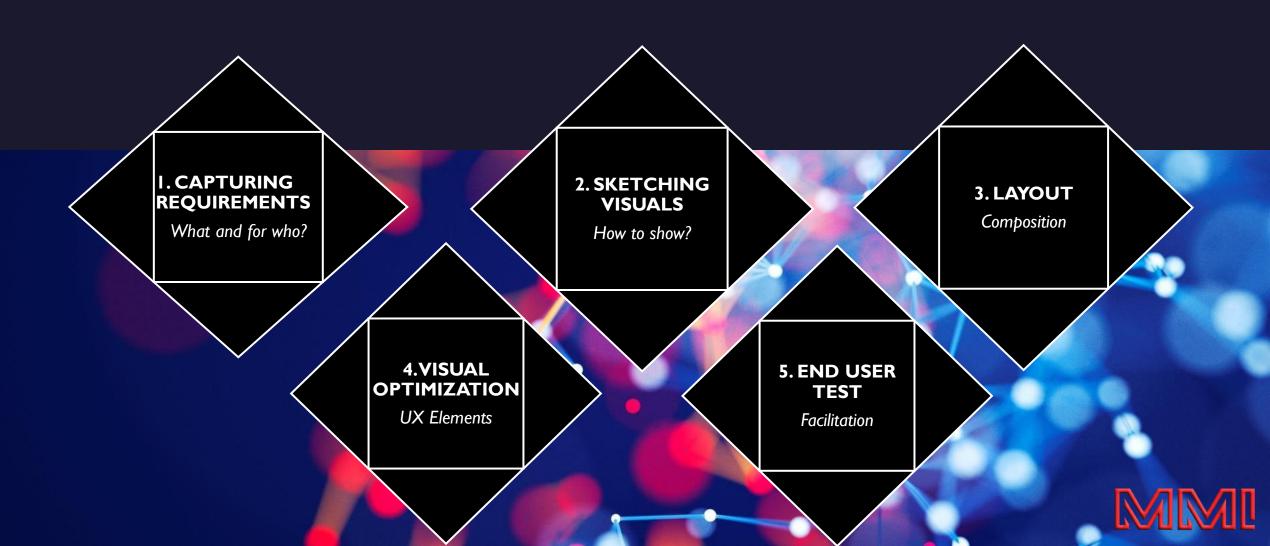


Data source: https://medium.com/gouccessivifiecn/in-va-ux-me-ym-yang-of-product-design-bi-//ec/07/00





Report design process







Define:

Decision Makers

Knowledge Experts

Sponsor



Guiding Question:

What decisions will be taken based on the report?



Define (Non) Negotiables:

- Corporate Design
- Consumption (Service, Desktop, Mobile)





How to understand your user?

Emphasize

- 1. Personas
- 2. User stories



Personas



Mireille

"You will always find what are you looking for"

- Age: 65
- · Gender: female
- · Occupation: Spiritual healer
- · Marital status: Married
- · Children: 3
- · Income:
- Interests: Acupuncture, moxibustion, working with chacra, holistic medicine, cooking, reading

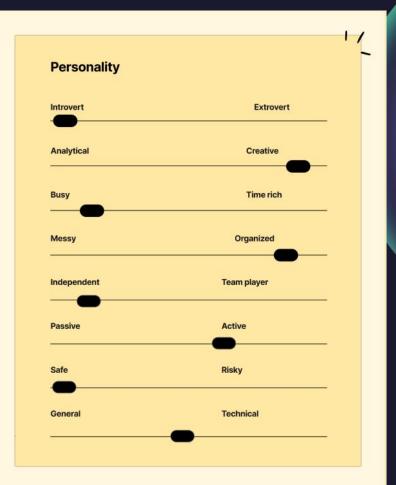
Bio

Mireille is a healer who lives in Florida in a small retired community. She travels occasionally to give seminars and lectures all over the world. She has written a couple of books.

Mireille had found her calling in life and enjoys tranquility and happiness that she had found through learning and improving herself, becoming a better version of herself.

She is deeply concerned that vast majority of people still want a "magic" pill to fix their health issues whether it's a physical or mental pain. By giving seminars and lectures she is bringing knowledge to people about alternative methods. **What bothers her the most** is still not being discovered well enough especially when she is traveling in different places, and the amount of so called healers who are trying to scam people.

She feels excited when there is an opportunity to create a healers community to collaborate and work together for the benefits of others, create events and seminars for those who are seeking alternative approach.





User stories

are problem or goal oriented and do not include specific solution or features.

As a [description of user], I want [functionality] so that [benefit].

As a database administrator, I want to automatically merge datasets from different sources so that I can more easily create reports for my internal customers.



Requirements Matrix

Report page Name: Name

Report page User: Users

Define	What	Answer
Define the goal of the report	GOAL	eg., Optimize production so that the cost is lowest and production times shortest eg., To give a high level overview of KPIs to multiple levels in the Unilever hierarchy
Define decisions that the report should drive	DECISION	eg. Should the production process be adjusted? eg. Do I need to see a more granular level of the indicators?
Define precise questions that help provide the answer to the decision	SUPPORTING QUESTIONS TO ANSWER	eg. Is the production time at each state close to the target?
Assign min 1 KPI to each question	KPI	eg. Actual prod. duration vs. target over time
Define action that should be triggered	ACTIONS	eg. Understand if there is room for speeding it up
Define who should see what and if they need any special adjustments	STAKEHOLDERS:	eg. Head of Production - All eg. Analysts - only for own products eg. Support - X



What visual is used	VISUAL 1	text
Is there another visual needed (total / KPI Card)	VISUAL 2	text
Define any filters or comparisons that are important for the decision	FILTER / COMPARISON	eg. Would be good to see a comparison of this year, last year, previous year sales.
Is there any dynamic element for the visual (toggle, slider)	DYNAMIC ELEMENT	text
Indicate what needs to be highlighted	HIGHLIGHTS	text
Default breakdowns?	BREAKDOWN	text
Reference lines/ targets etc	CONTEXT	text
Additional information needed?	TOOLTIP	text
Is there a need for bookmark (Chart- Table view)	BOOKMARKS	text





Year	
2021	~

Product Category

Accessories

Clothing

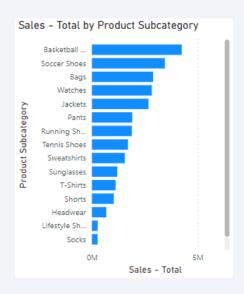
Shoes

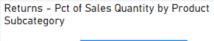
Sales - Total

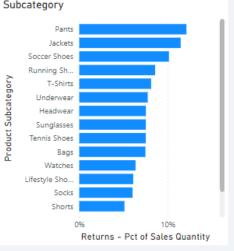
28.0M

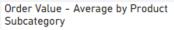
Returns - Pct of Sales Quantity

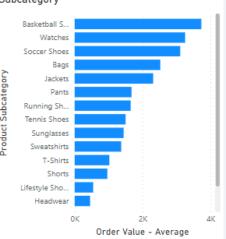
7.7%











Order Value - Average

11K

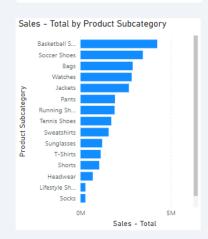


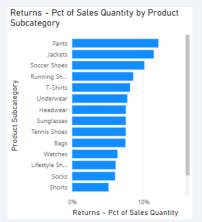


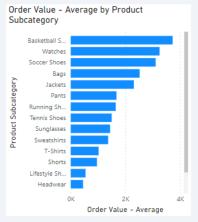
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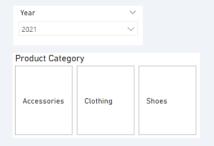
Returns - Pct of Sales Quantity
7.7%

Order Value - Average









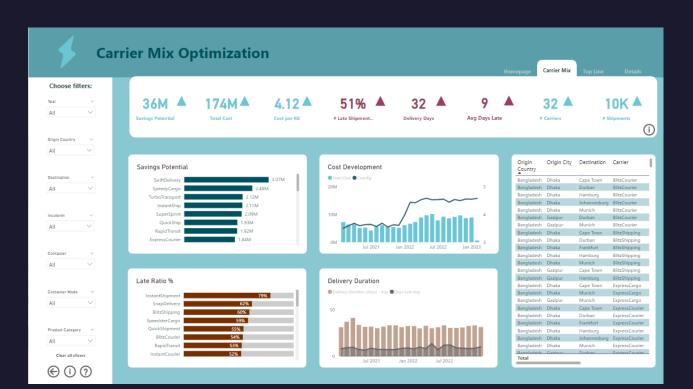
















Report Final check

Report page Name: Name

Report page User: Users

1. Concept		Notes per page
Is it clear what decisions the report should help with?	Clarity	text
Are the most important KPIs clearly visible and readable?	Readability	text
Are the insights actionable?	Functionality	text
2. Visuals		
Are the numbers correct?	Correctness	text
Are the charts answering supporting questions as intended?	Choice	text
Is axis needed? Is axis title needed?	Axis	text
Are labels necessary? Are they conditionally formatted to improve readability?	Labels	text
Is enough context provided to draw conclusions (reference lines, yoy, target, highest/lowest value)?	Context	text
Are colors used consistently across the report (same color, same category)?	Colors	text



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Is the order of visuals logical? What reading pattern is it?	Structure	text
Are the correct items highlighted?	Highlights	text
Are the elements aligned? Is there enough whitespace?	Background	text
Are the fonts matching and in hierarchy?	Fonts	text

4. UX elements

Is navigation intuitive? How can it be improved?	Navigation	text
Are filters working correctly? Is the data meaningful after applying filters (blank?)?	Filters	text
Are buttons working (actions)? Are they formatted (on hover)?	Buttons	text

5. User Testing

Test the report as a user. Create tasks/ questions for yourself and perform them.	Intuitiveness	text
Test the report as a user. Create tasks/ questions for yourself and perform them.	Ease of use	text
Test the report as a user. Create tasks/ questions for yourself and perform them.	Usefulness	text

6. What is missing

|--|





		Strong Points	Improvement Points
1 Concept		5.1.5.1.6.1.6.1	proteinent ointo
2 0002	Do I understand what the report is about? Is		
Clarity	there a story/question it answers?		
Readability	Is it easy to read the data story?		
Functionality	Is it easy to get to the answers? Is the report helping make decisions?		
2 Visuals	rosping mane decisions.		
2 Visuais	Are the numbers correct? Did you click on		
Correctness	every button/filter?		
Choice	Is the visual appropriate for the data/question/topic?		
Choice	Is the scale and axis clear and easy to		
Axis	comprehend?		
Labels	Are labels helping the readability?		
Comband	Is there informative context provided? Is it helpful?		
Context	readability?		
	readability:		
3 Layout	Is the structure intuitive and quick to		
Structure	comprehend?		
Highlights	Are the right things highlighted?		
	How is the background from the visual		
Background	perspective? Is it clean and polished? Do the fonts of the report match? Are they		
Fonts	correct size?		
4 UX elements			
Navigation	Is the navigation intuitive?		
	Are hiltering option exhaustive? Are they		
Filters	clear and helpful? Do all buttons work/communicate message		
Buttons	as intended?		
	What UX elements unique for this report are		
	s great or should be improved?		
5 User Testing			
Intuitiveness	Is the report/report flow intuitive? Is the report easy to use (no complex		
Ease of use	clicking patterns)?		
	Is the report useful to the extend that you		
Usefulness	could imagine revisiting it in the future?		
6 What is missing	g?		



UX laws & Principles lawsofux.com



Aesthetic Usability Effect



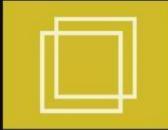
Doherty Threshold



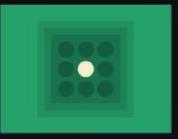
Fitts's Law



Hick's Law



Jakob's Law



Law of Common Region



Law of Prägnanz



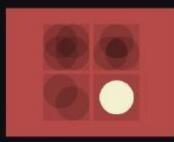
Law of Proximity



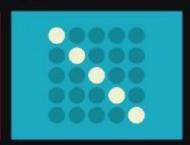
Law of Similarity



Miller's Law



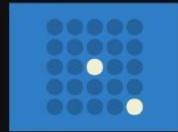
Occam's Razor



Pareto Principle



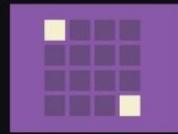
Parkinson's Law



Peak-End Rule



Postel's Law



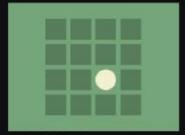
Serial Position Effect



Tesler's Law



Uniform Connectedness



Von Restorff Effect



Zeigarnik Effect





Fitts's law

The time to acquire a target is a function of the distance to and size of the target.

- 1. Touch targets should be large enough for users to accurately select them.
- 2.Touch targets should have ample spacing between them.
- 3. Touch targets should be placed in areas of an interface that allow them to be easily acquired.

To make interactive buttons large (especially on finger-operated mobile devices)





Aesthetic-Usability Effect

Users often perceive aesthetically pleasing design as design that's more usable.

- 1. An aesthetically pleasing design creates a positive response in people's brains and leads them to believe the design actually works better.
- 2. People are more tolerant of minor usability issues when the design of a product or service is aesthetically pleasing.

Make report design appealing



Thank you

Kate Boss

817 818 8922

iamkateboss@gmail.com

mmibc.com

