LIP Internships: Notion + Github

Notion for the LIP summer students!

Study case: LIP group **NUC-RIA**.

Walk through

1. What is Notion?
2. How the NUC-RIA group uses Notion
3. Uses for you and for this internship
4. Hands-on

Part 1: What is Notion?

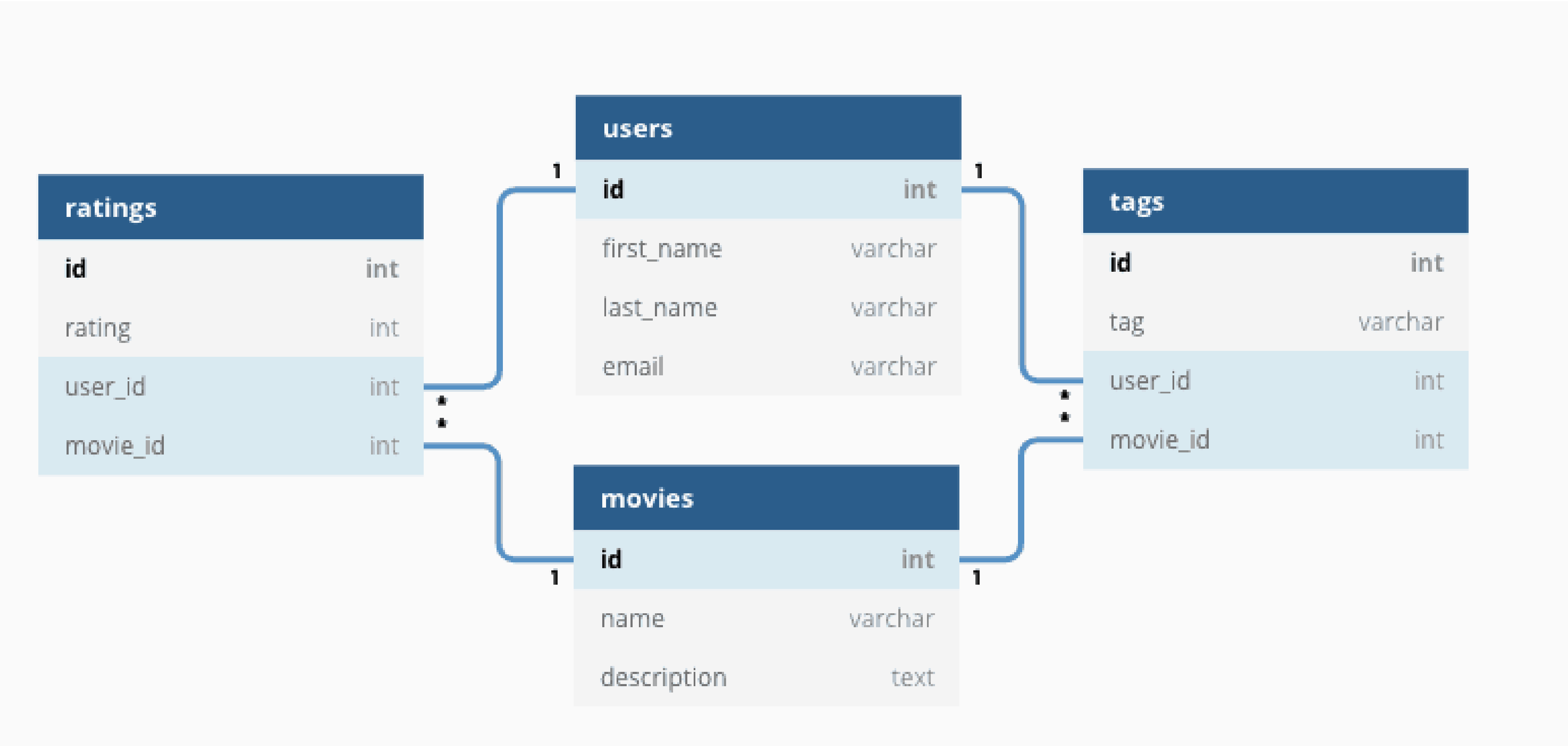
It is essentially a productivity tool

- Note-taking
- Task management
- Bookmarking (Meeting minutes, Organization)
- Database

Relational Databases

> *A relational database stores and organizes data points that are related to one another.*

General example



In our case, from this…

Main Database

↙ 1 backlink

Default view | Calendar | Board | Timeline

Database

↓ Created time ⌄ | State ⌄

Name	Responsible	State	Type	Deadline	Created time
Minutes 17/3/2023	Daniel Galaviz	Done	Group Meeting	March 17, 2023	March 24, 2023 8:11
Conferência Austria	Francisco G. Barba Daniel Galaviz	In progress	Linkedin		March 22, 2023 11:33
CLEAR 1	Daniel Galaviz Beatriz Amorim Francisco G. Barba Ricardo Matoza Pires	Done	Linkedin		March 22, 2023 11:33
Minutes 10/3/2023	Daniel Galaviz	Done	Group Meeting	March 10, 2023	March 17, 2023 8:30
Website publication	Ricardo Ferreira da Silva Carolina Felgueiras Tomás Sousa	To-do	Linkedin		March 10, 2023 11:10
Minutes 03/3/2023	Daniel Galaviz	Done	Group Meeting	March 3, 2023	March 10, 2023 8:24
Minutes 24/2/2023	Daniel Galaviz	Done	Group Meeting	February 24, 2023	March 3, 2023 8:15
Rita's farewell	Carolina Felgueiras	To-do	Linkedin		February 24, 2023 9:30
Masterclasses	Carolina Felgueiras	Done	Linkedin		February 24, 2023 9:30
Carina's poster 3	Carolina Felgueiras Daniel Galaviz Carina Coelho	Done	Linkedin		February 24, 2023 9:30

…we get this…

Weekly Meetings

The meetings are every Friday at 9:15 in ZOOM

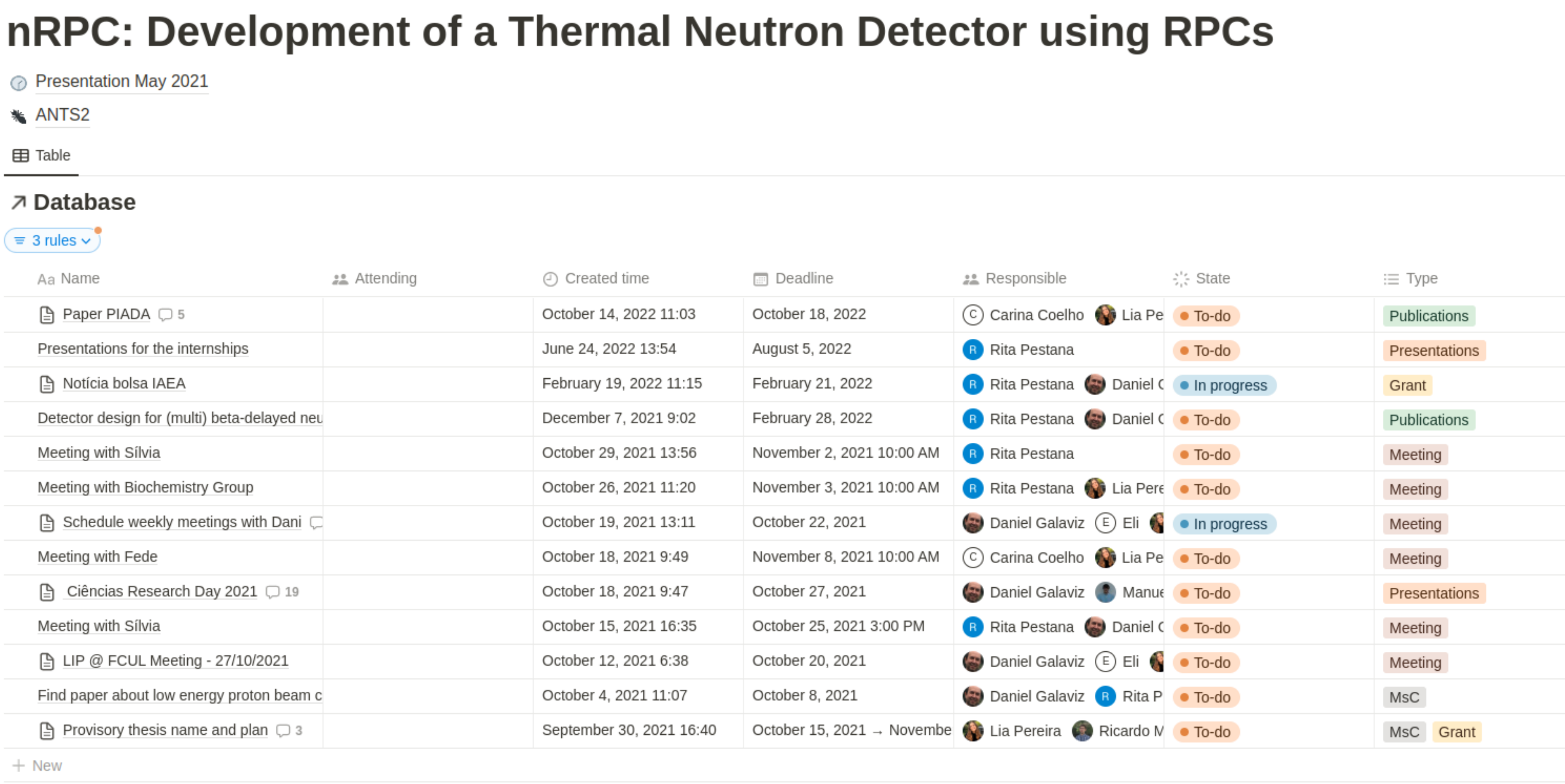
Group Presentations

Table

↗ Database

Name	Attending	Deadline	Type	Responsible	State
Minutes 24/3/2023	Daniel Galaviz Manue	March 24, 2023	Group Meeting	Daniel Galaviz	Done
Minutes 17/3/2023	Daniel Galaviz Manue	March 17, 2023	Group Meeting	Daniel Galaviz	Done
Minutes 10/3/2023	Daniel Galaviz Manue	March 10, 2023	Group Meeting	Daniel Galaviz	Done
Minutes 03/3/2023	Daniel Galaviz Manue	March 3, 2023	Group Meeting	Daniel Galaviz	Done
Minutes 24/2/2023	Daniel Galaviz Manue	February 24, 2023	Group Meeting	Daniel Galaviz	Done
Minutes 10/2/2023	Daniel Galaviz Manue	February 10, 2023	Group Meeting	Daniel Galaviz	Done
Minutes 03/2/2023	Daniel Galaviz Manue	February 3, 2023	Group Meeting	Daniel Galaviz	Done
Minutes 27/1/2023	Daniel Galaviz Manue	January 13, 2023	Group Meeting	Daniel Galaviz	Done
Minutes 13/1/2023	Daniel Galaviz Manue	January 13, 2023	Group Meeting	Daniel Galaviz	Done
Minutes 23/12/2022	Daniel Galaviz Manue	December 9, 2022	Group Meeting	Daniel Galaviz	Done

…and this…



nRPC: Development of a Thermal Neutron Detector using RPCs

Presentation May 2021

ANTS2

Table

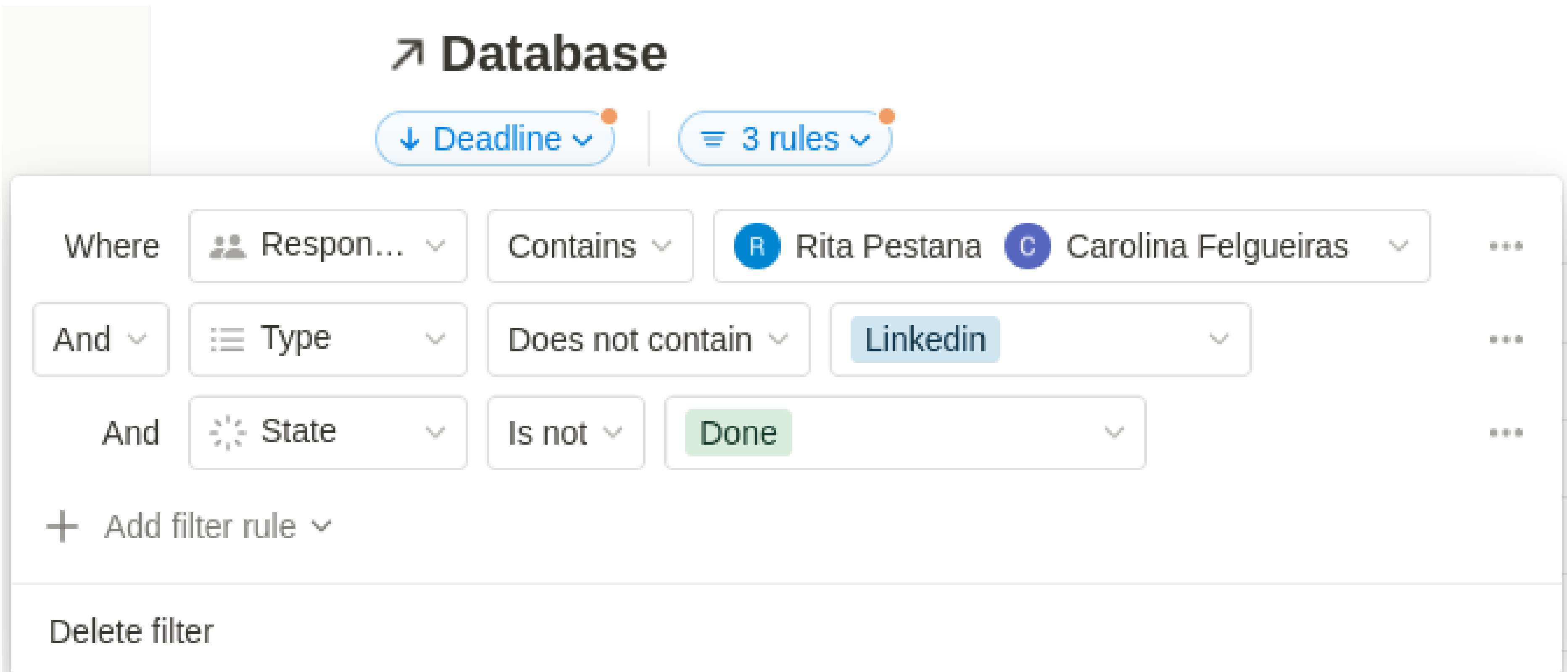
↗ Database

3 rules

Name	Attending	Created time	Deadline	Responsible	State	Type
Paper PIADA 5		October 14, 2022 11:03	October 18, 2022	Carina Coelho, Lia Pe	To-do	Publications
Presentations for the internships		June 24, 2022 13:54	August 5, 2022	Rita Pestana	To-do	Presentations
Notícia bolsa IAEA		February 19, 2022 11:15	February 21, 2022	Rita Pestana, Daniel (	In progress	Grant
Detector design for (multi) beta-delayed neu		December 7, 2021 9:02	February 28, 2022	Rita Pestana, Daniel (	To-do	Publications
Meeting with Sílvia		October 29, 2021 13:56	November 2, 2021 10:00 AM	Rita Pestana	To-do	Meeting
Meeting with Biochemistry Group		October 26, 2021 11:20	November 3, 2021 10:00 AM	Rita Pestana, Lia Pere	To-do	Meeting
Schedule weekly meetings with Dani		October 19, 2021 13:11	October 22, 2021	Daniel Galaviz, Eli	In progress	Meeting
Meeting with Fede		October 18, 2021 9:49	November 8, 2021 10:00 AM	Carina Coelho, Lia Pe	To-do	Meeting
Ciências Research Day 2021 19		October 18, 2021 9:47	October 27, 2021	Daniel Galaviz, Manue	To-do	Presentations
Meeting with Sílvia		October 15, 2021 16:35	October 25, 2021 3:00 PM	Rita Pestana, Daniel (	To-do	Meeting
LIP @ FCUL Meeting - 27/10/2021		October 12, 2021 6:38	October 20, 2021	Daniel Galaviz, Eli	To-do	Meeting
Find paper about low energy proton beam c		October 4, 2021 11:07	October 8, 2021	Daniel Galaviz, Rita P	To-do	MsC
Provisory thesis name and plan 3		September 30, 2021 16:40	October 15, 2021 → Novembe	Lia Pereira, Ricardo M	To-do	MsC Grant

+ New

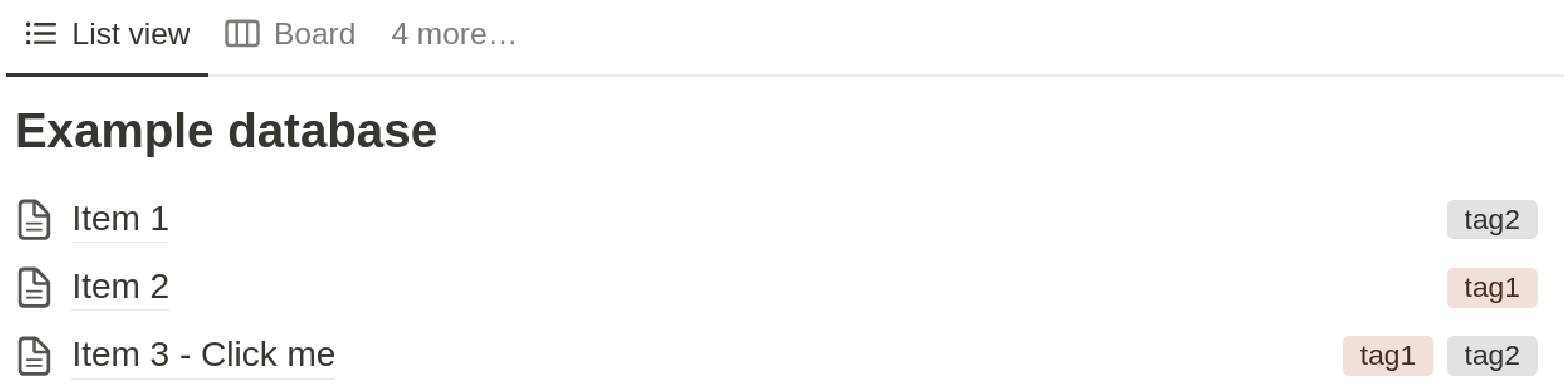
…through filtering & sorting



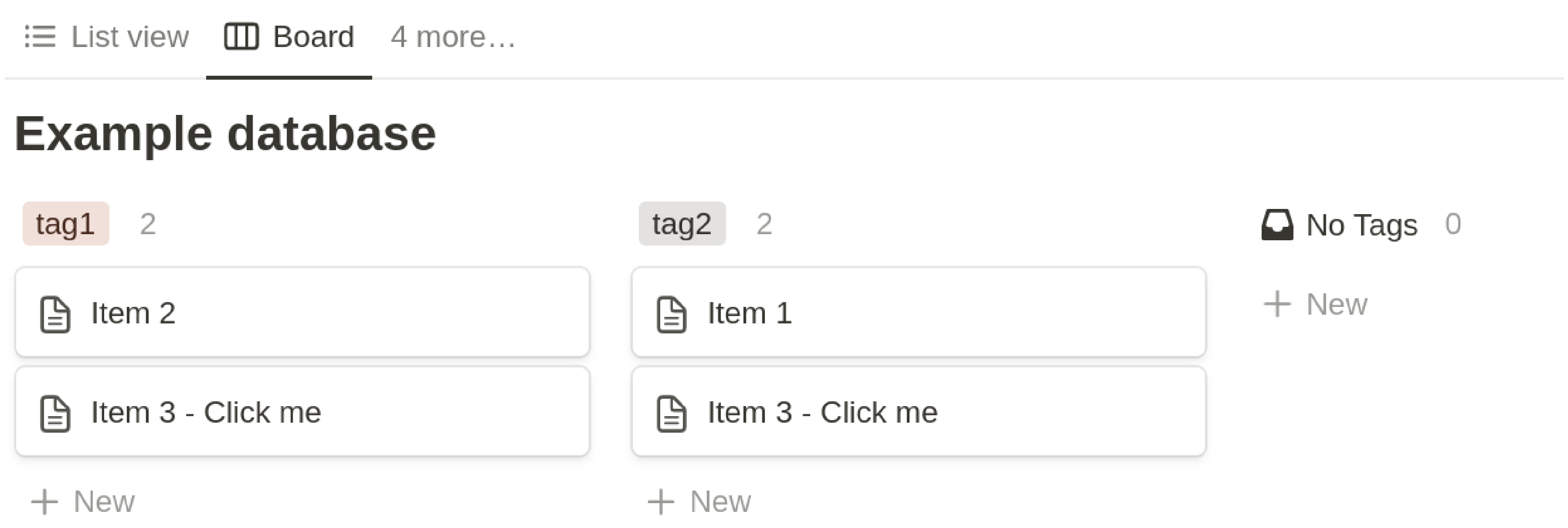
Database views

Databases are the bread and butter of Notion, knowing how to use them is 75% of this tool.

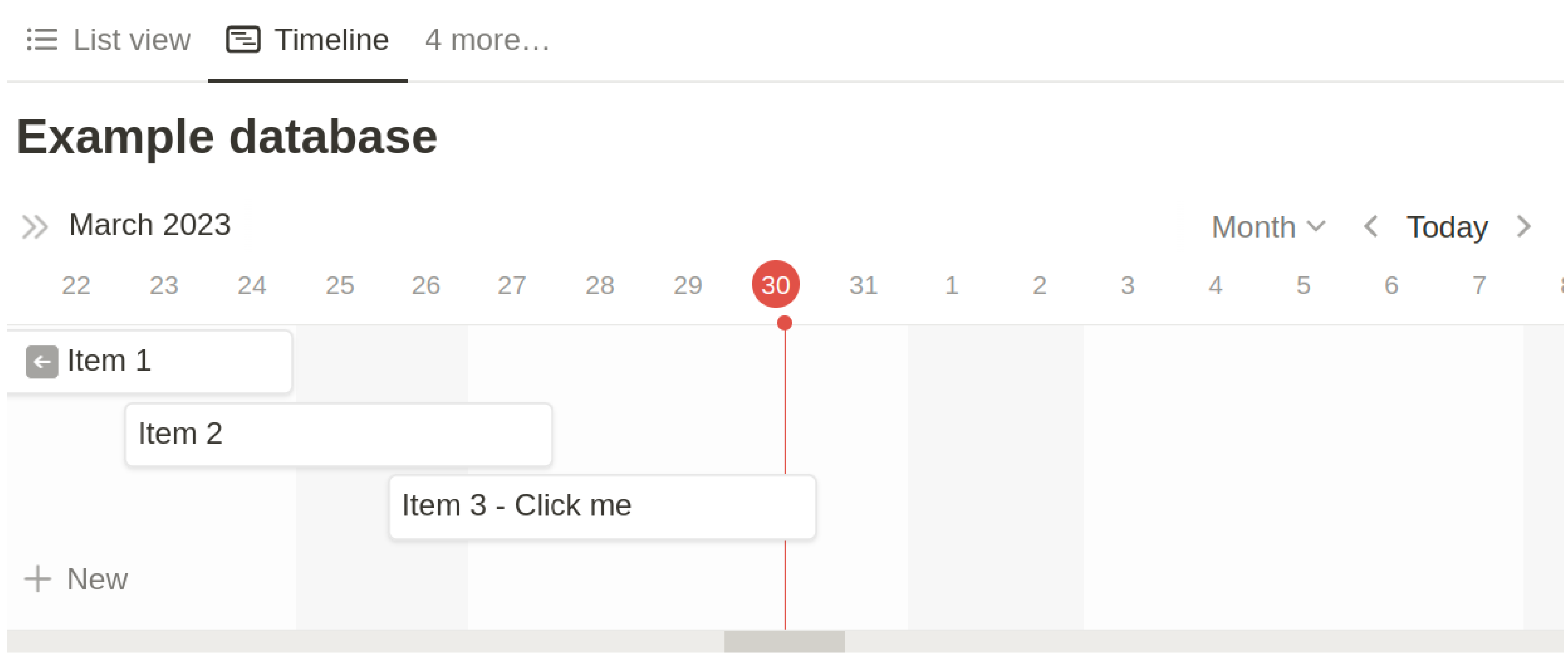
List



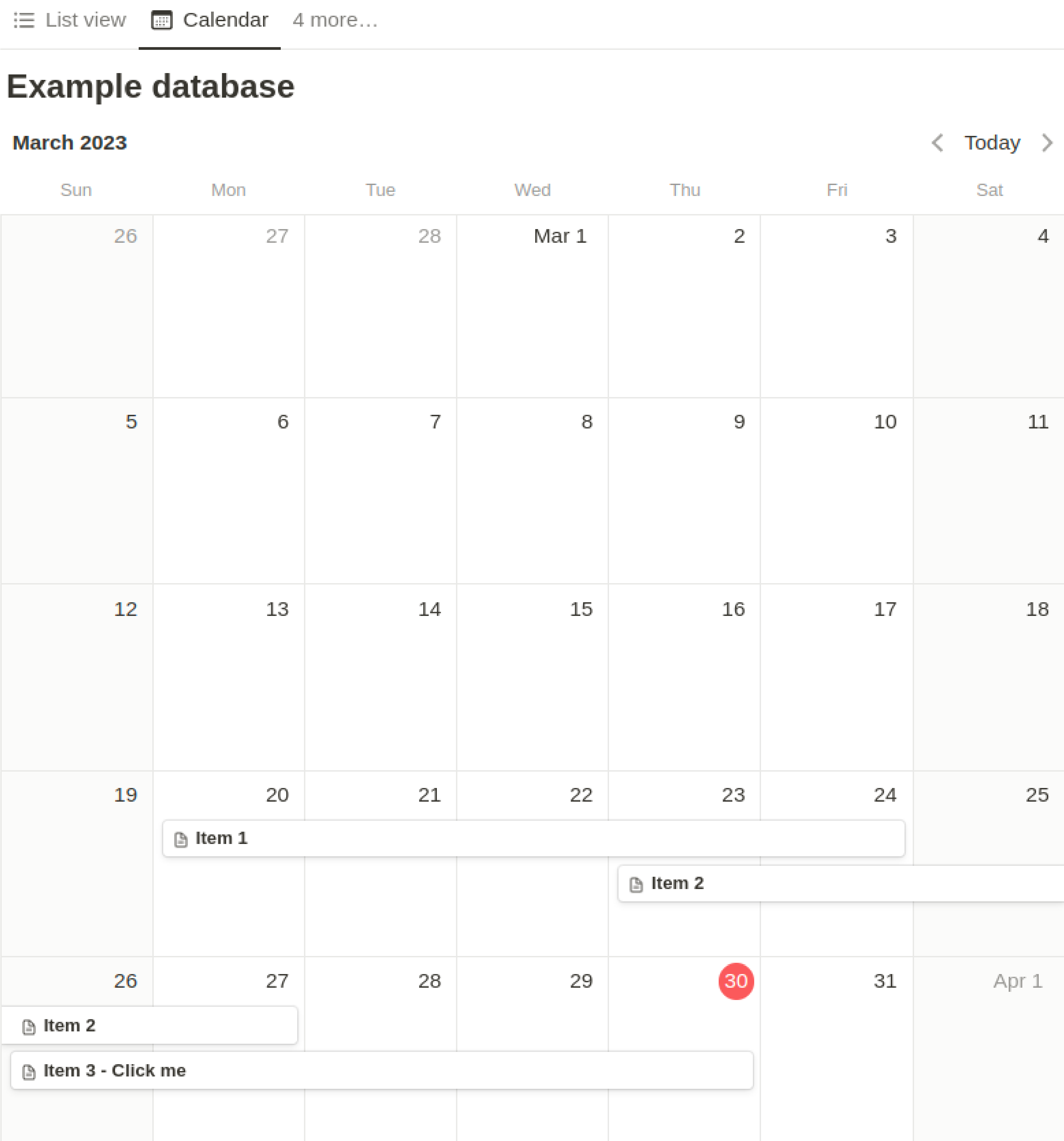
Board



Timeline



Calendar



Table

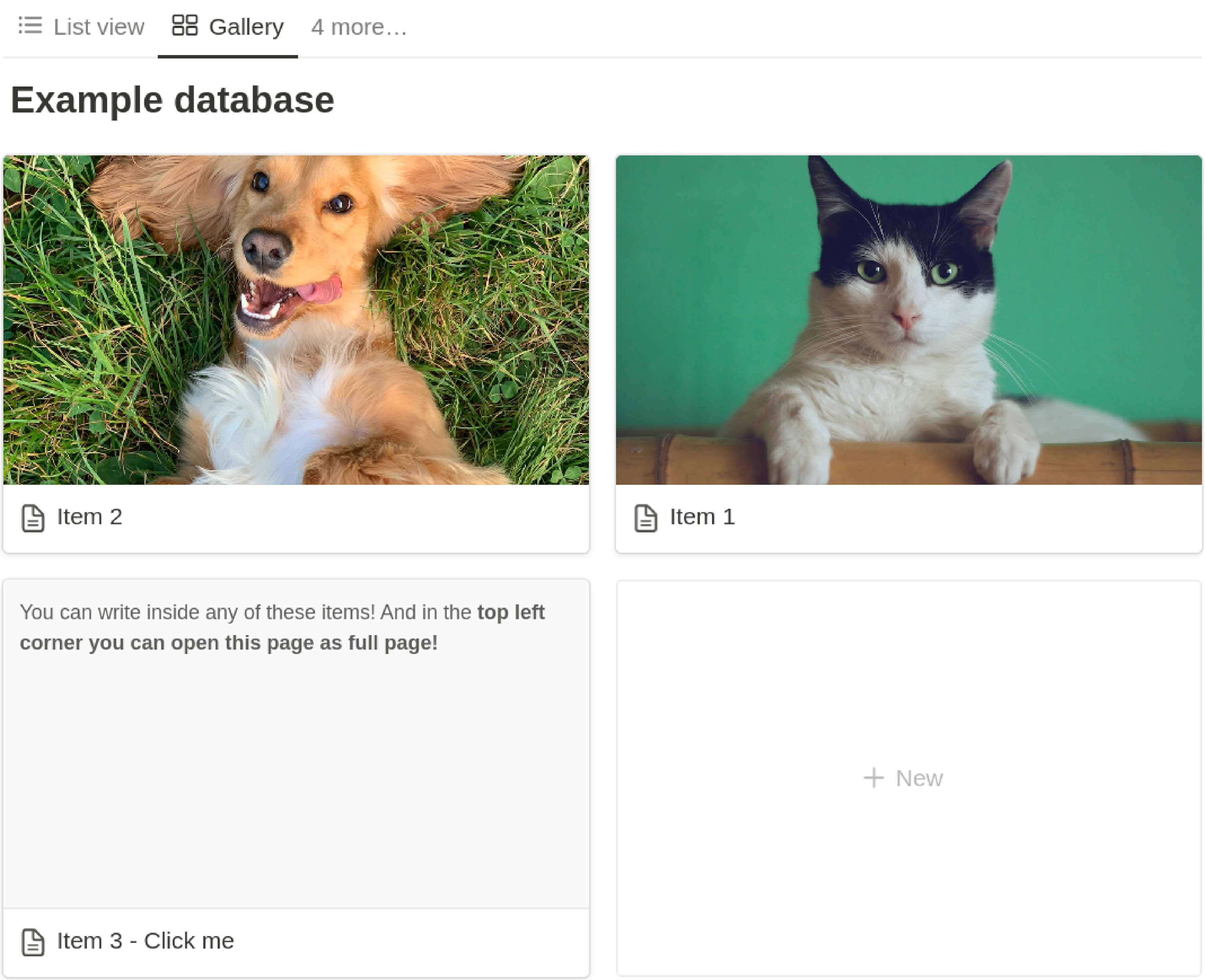
List view Board Table 3 more…

Example database

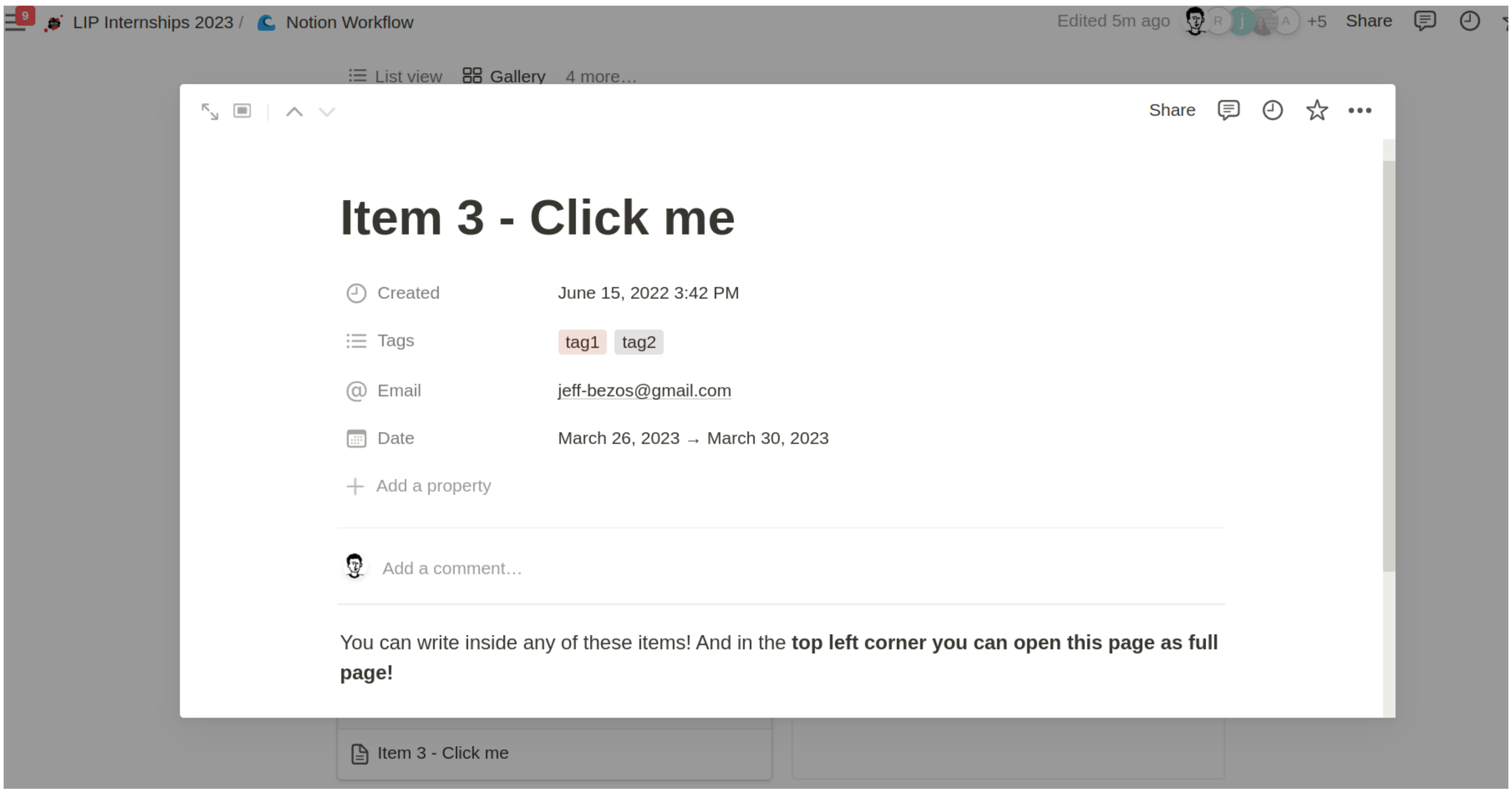
Aa Name	Created	Date	Email	Tags
Item 2	June 15, 2022 3:42 PM	March 23, 2023 → March 27, 2		tag1
Item 1	June 15, 2022 3:42 PM	March 20, 2023 → March 24, 2		tag2
Item 3 - Click me	June 15, 2022 3:42 PM	March 26, 2023 → March 30, 2	jeff-bezos@gmail.com	tag1 tag2

+ New

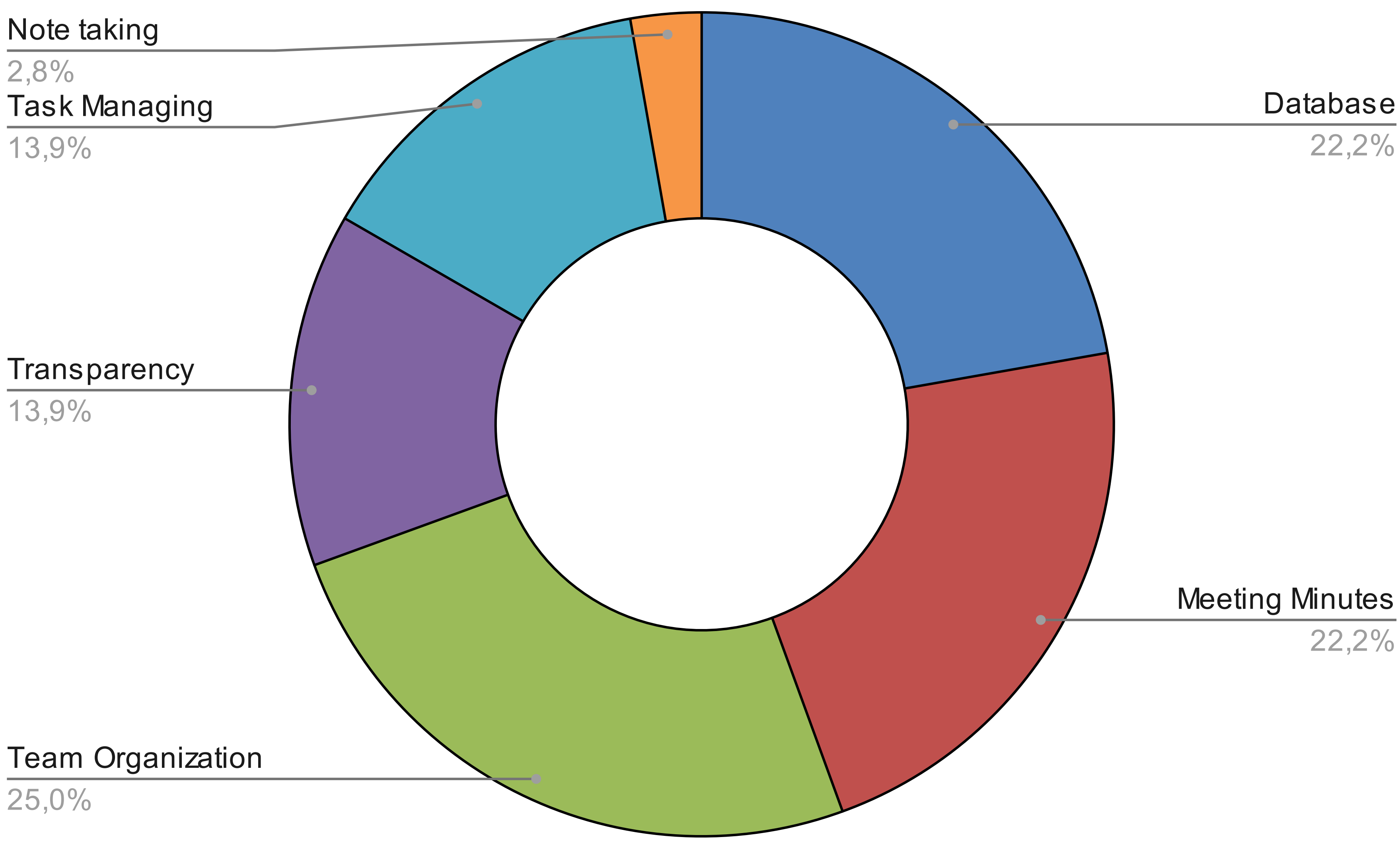
Gallery



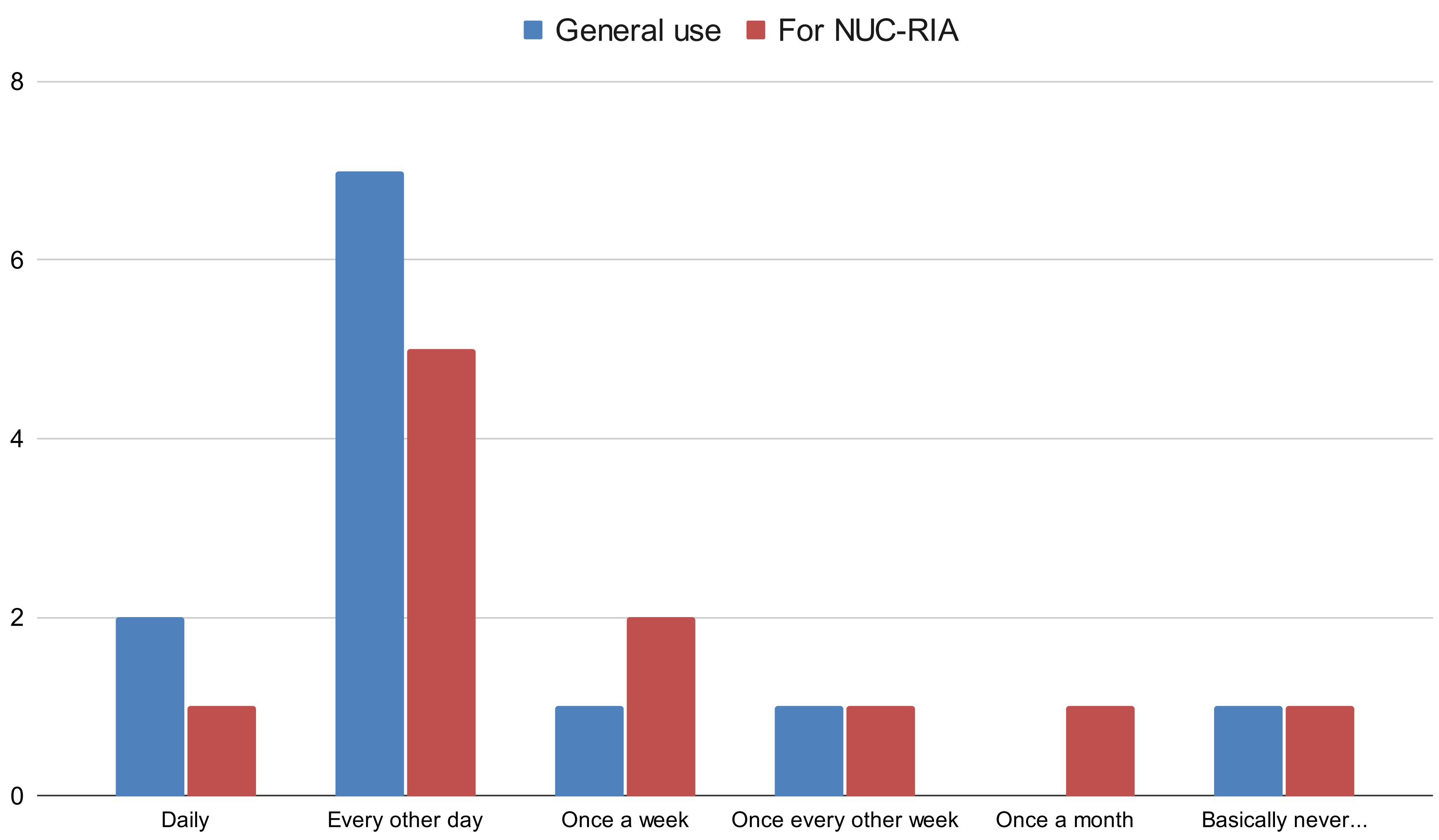
Each of this items can be a page



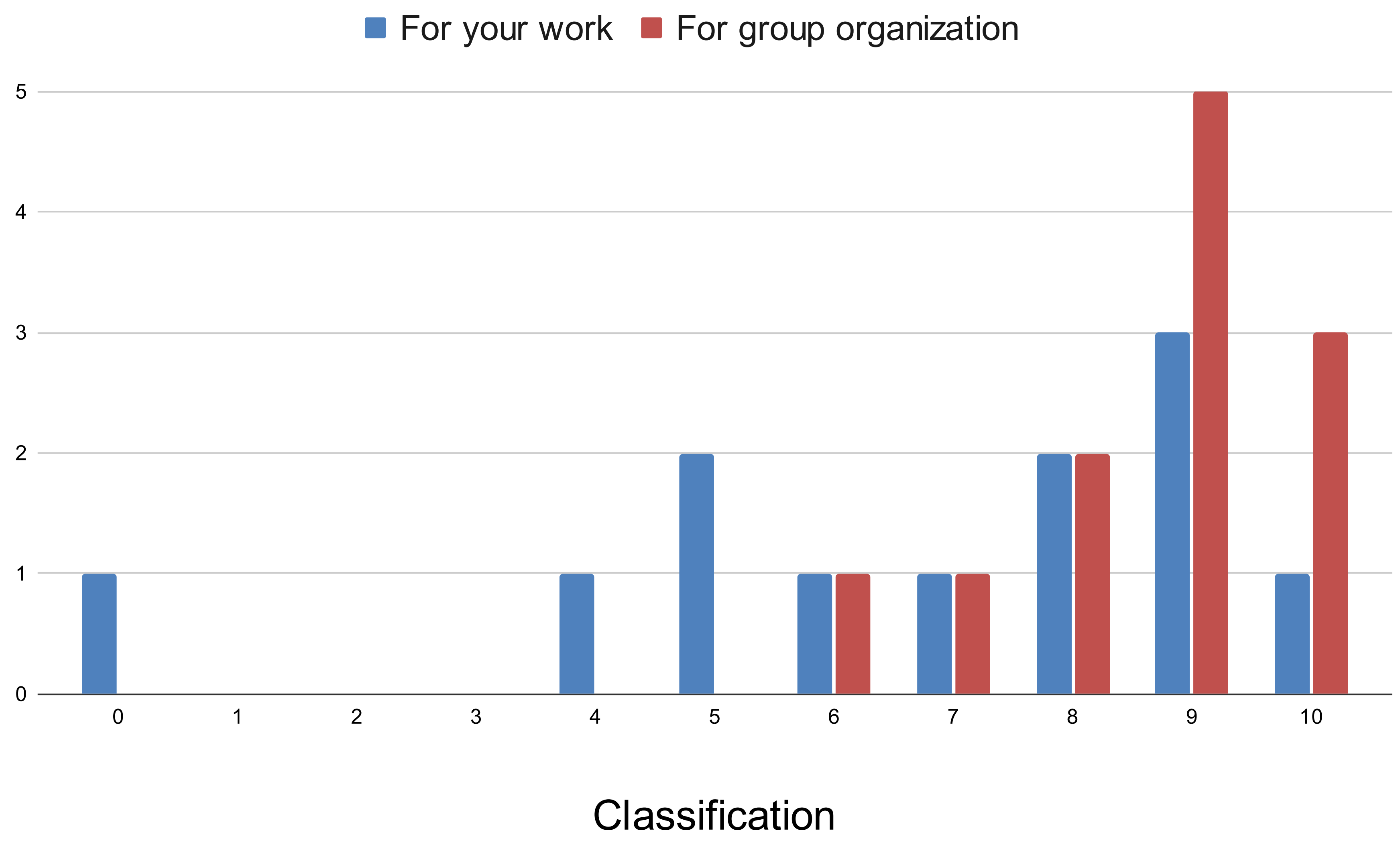
Part 2: How the NUC-RIA group uses Notion



How regularly do they use it?



How useful is it?



NUC-RIA Workflow

Ok… but how about NUC-RIA?

NUC-RIA Main Page   Edited Mar 27 +19 Share

Change cover Reposition

Add comment

NUC-RIA Main Page

Main Database   Weekly Meetings

Projects

- Proton activations at CTN
- NNT : P process simulation
- nRPC: Development of a Thermal Neutron Detector using RPCs
- SMODA: Development of a Standard Methodology for Online Dose Calculation in Air
- PIADA: Proton radiation Impact on AmyloiD structures against Alzheimer.
- BESN: Correction on Energy deposition on Thin Singlesided Silicon Strip Detector
- SCORE - Short range CORrelations on Exotic nuclei at R3B/FAIR using tRPCs
- Evaporator facility
- CALIFA@CTN
- C4F: Characterization of CsI(Tl) Crystals and Implementation of tools for the CALIFA calorimeter at FAIR.
- Inverse Alpha - IS698
- RPCs for CALIFA
- ATOMIK : Atomic inputs for kilonovae modeling
- Muon detection with a scintillator-PMT based setup
- Interface

- Linkedin
- Papers
- CTN
- LIP Internship Proposals 2023
- Photos
- Conferences & Workshops
- Group Presentations
- Contacts
- Proposals for Research Projects
- Ciência ID
- Lab 8.5.15
- NUC-RIA - The movie
- Grants and Applications
- Masterclass
- Updates Weekly
- Annual Reports LIP
- Useful Tools: IT for beginners
- Website
- Group's Task Forces
- Opportunities in Nuclear Physics / BioNuclear ...

Calendar

Table Calendar Timeline

↗ Database

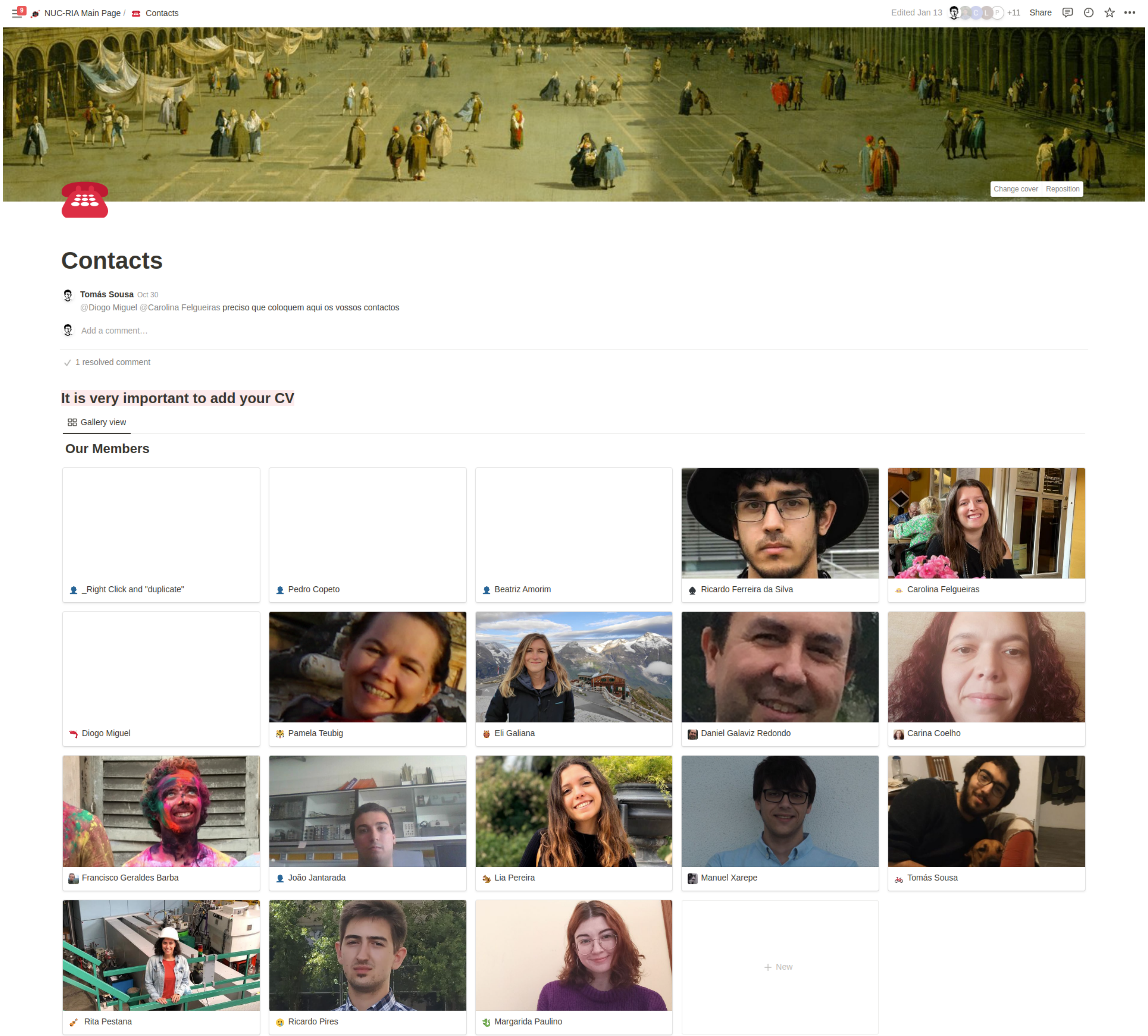
February 2023   Today

Sun	Mon	Tue	Wed	Thu	Fri	Sat
29	30	31 Characterization of the res... Pamela Teubig, Daniel G	Feb 1	2	3 Minutes 03/2/2023 Daniel Galaviz	4
5	6	7	8	9	10 Minutes 10/2/2023 Daniel Galaviz	11
12	13	14	15	16	17	18
19	20	21	22	23	24 Minutes 24/2/2023 Daniel Galaviz	25
26	27 R3BRoot Workshop 2 Daniel Galaviz, Tomás S	28	Mar 1	2	3 Minutes 03/3/2023 Daniel Galaviz	4

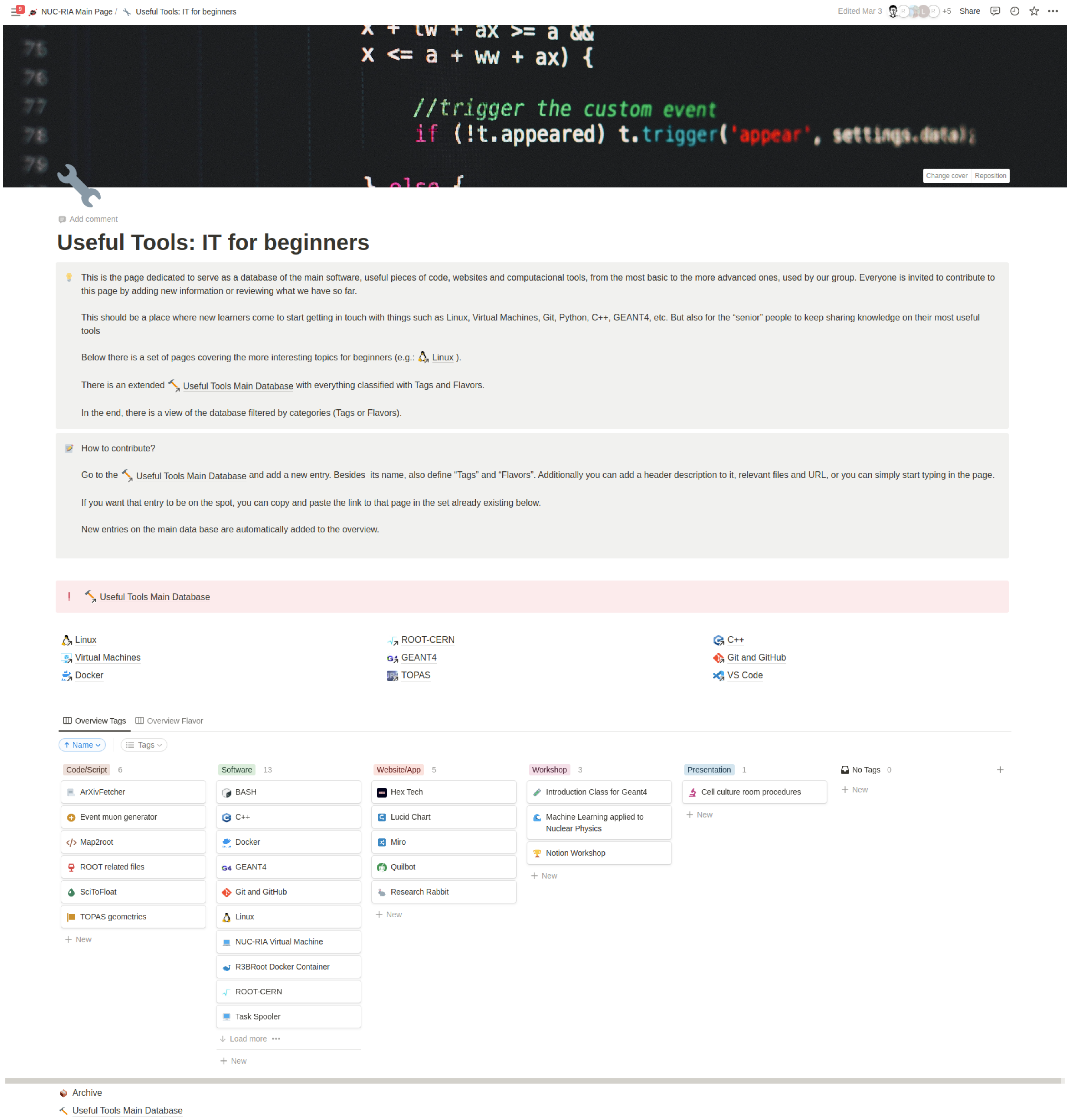
Miscellaneous

- How to use the @Main Database
- Internships Notion Workflow
- Archive

Contacts



IT Tools for beginners



NUC-RIA Main Page / Useful Tools: IT for beginners

Edited Mar 3 +5 Share

Change cover Reposition

Add comment

Useful Tools: IT for beginners

This is the page dedicated to serve as a database of the main software, useful pieces of code, websites and computacional tools, from the most basic to the more advanced ones, used by our group. Everyone is invited to contribute to this page by adding new information or reviewing what we have so far.

This should be a place where new learners come to start getting in touch with things such as Linux, Virtual Machines, Git, Python, C++, GEANT4, etc. But also for the "senior" people to keep sharing knowledge on their most useful tools

Below there is a set of pages covering the more interesting topics for beginners (e.g.: Linux).

There is an extended Useful Tools Main Database with everything classified with Tags and Flavors.

In the end, there is a view of the database filtered by categories (Tags or Flavors).

How to contribute?

Go to the Useful Tools Main Database and add a new entry. Besides its name, also define "Tags" and "Flavors". Additionally you can add a header description to it, relevant files and URL, or you can simply start typing in the page.

If you want that entry to be on the spot, you can copy and paste the link to that page in the set already existing below.

New entries on the main data base are automatically added to the overview.

! Useful Tools Main Database

Linux
Virtual Machines
Docker
ROOT-CERN
GEANT4
TOPAS
C++
Git and GitHub
VS Code

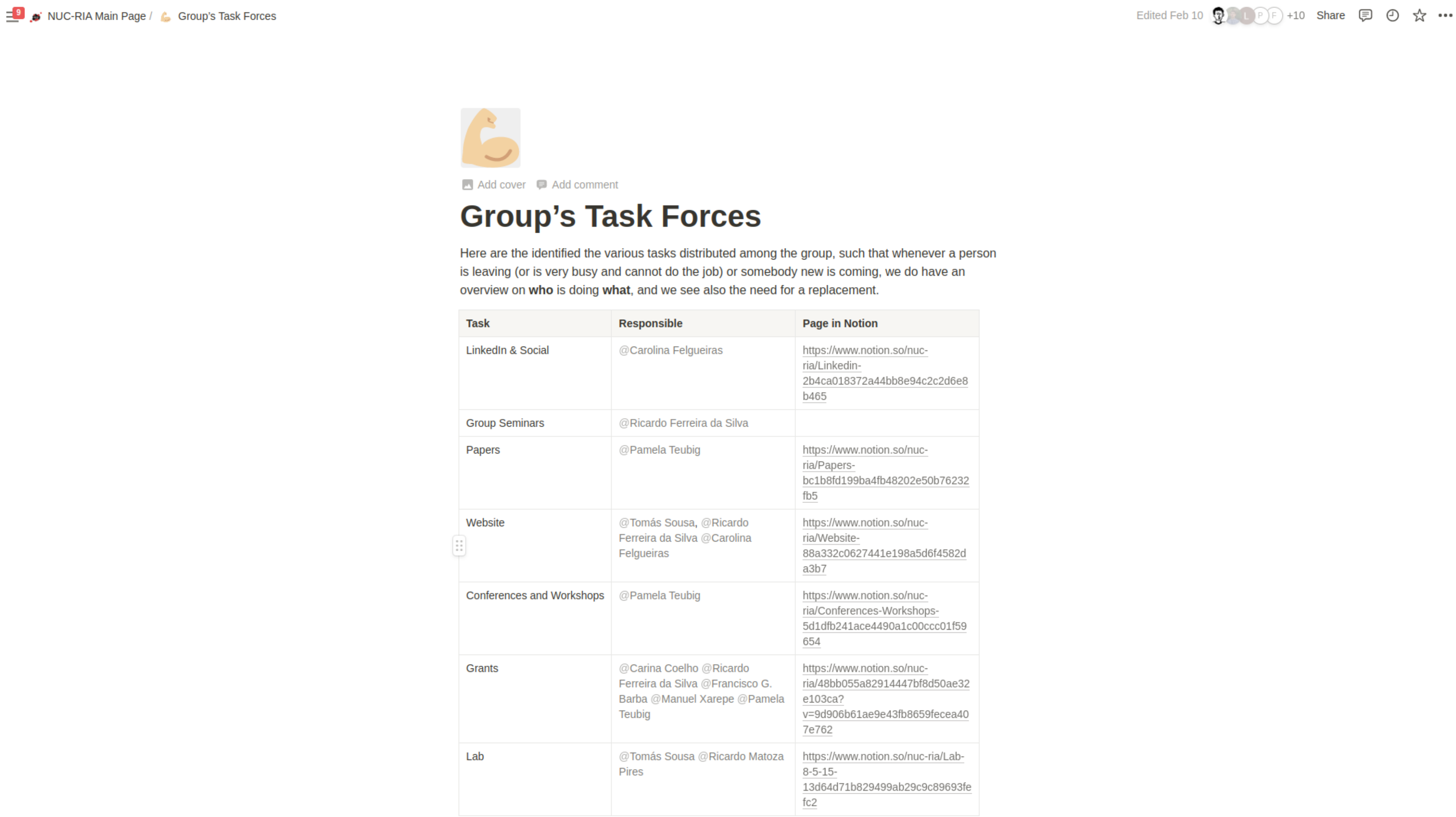
Overview Tags | Overview Flavor

Name | Tags

Code/Script 6	Software 13	Website/App 5	Workshop 3	Presentation 1	No Tags 0
ArXivFetcher	BASH	Hex Tech	Introduction Class for Geant4	Cell culture room procedures	+ New
Event muon generator	C++	Lucid Chart	Machine Learning applied to Nuclear Physics	+ New	
Map2root	Docker	Miro	Notion Workshop		
ROOT related files	GEANT4	Quilbot	+ New		
SciToFloat	Git and GitHub	Research Rabbit			
TOPAS geometries	Linux	+ New			
+ New	NUC-RIA Virtual Machine				
	R3BRoot Docker Container				
	ROOT-CERN				
	Task Spooler				
	Load more				
	+ New				

Archive
Useful Tools Main Database

Group's Task Forces



NUC-RIA Main Page / Group's Task Forces

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Add cover Add comment

Group's Task Forces

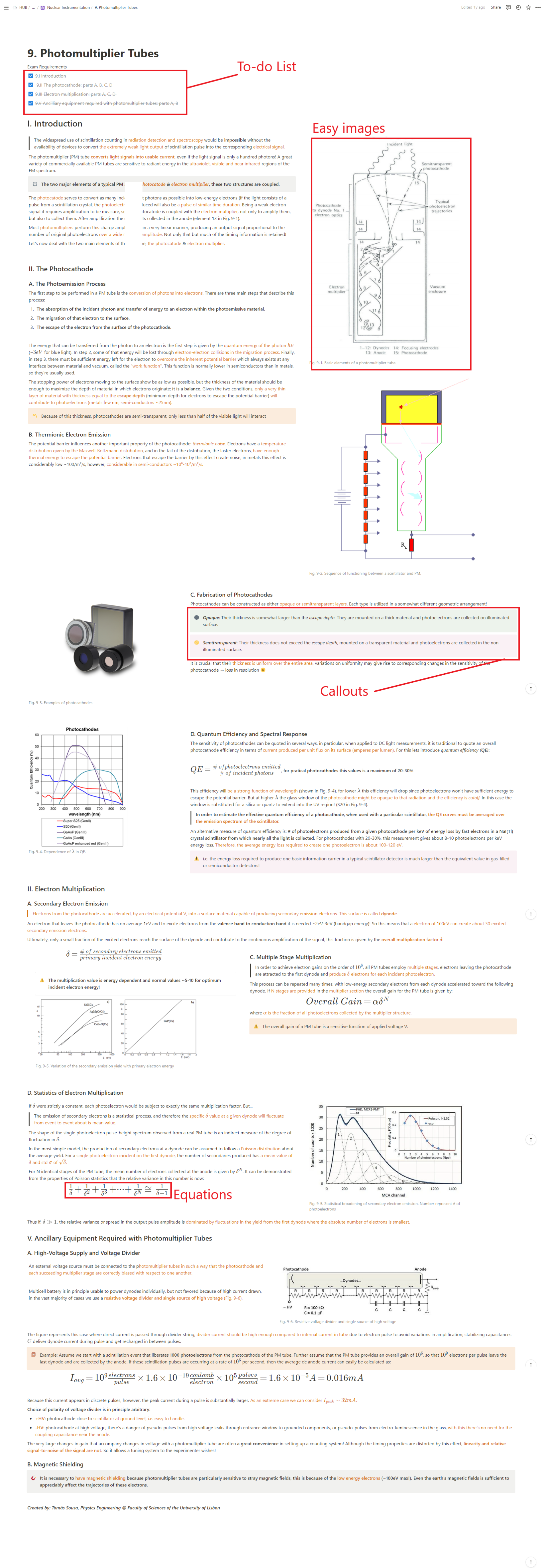
Here are the identified the various tasks distributed among the group, such that whenever a person is leaving (or is very busy and cannot do the job) or somebody new is coming, we do have an overview on **who** is doing **what**, and we see also the need for a replacement.

Task	Responsible	Page in Notion
LinkedIn & Social	@Carolina Felgueiras	https://www.notion.so/nuc-ria/Linkedin-2b4ca018372a44bb8e94c2c2d6e8b465
Group Seminars	@Ricardo Ferreira da Silva	
Papers	@Pamela Teubig	https://www.notion.so/nuc-ria/Papers-bc1b8fd199ba4fb48202e50b76232fb5
Website	@Tomás Sousa, @Ricardo Ferreira da Silva @Carolina Felgueiras	https://www.notion.so/nuc-ria/Website-88a332c0627441e198a5d6f4582da3b7
Conferences and Workshops	@Pamela Teubig	https://www.notion.so/nuc-ria/Conferences-Workshops-5d1dfb241ace4490a1c00ccc01f59654
Grants	@Carina Coelho @Ricardo Ferreira da Silva @Francisco G. Barba @Manuel Xarepe @Pamela Teubig	https://www.notion.so/nuc-ria/48bb055a82914447bf8d50ae32e103ca?v=9d906b61ae9e43fb8659fecea407e762
Lab	@Tomás Sousa @Ricardo Matoza Pires	https://www.notion.so/nuc-ria/Lab-8-5-15-13d64d71b829499ab29c9c89693fefc2

Part 3: Uses for you and for this internship

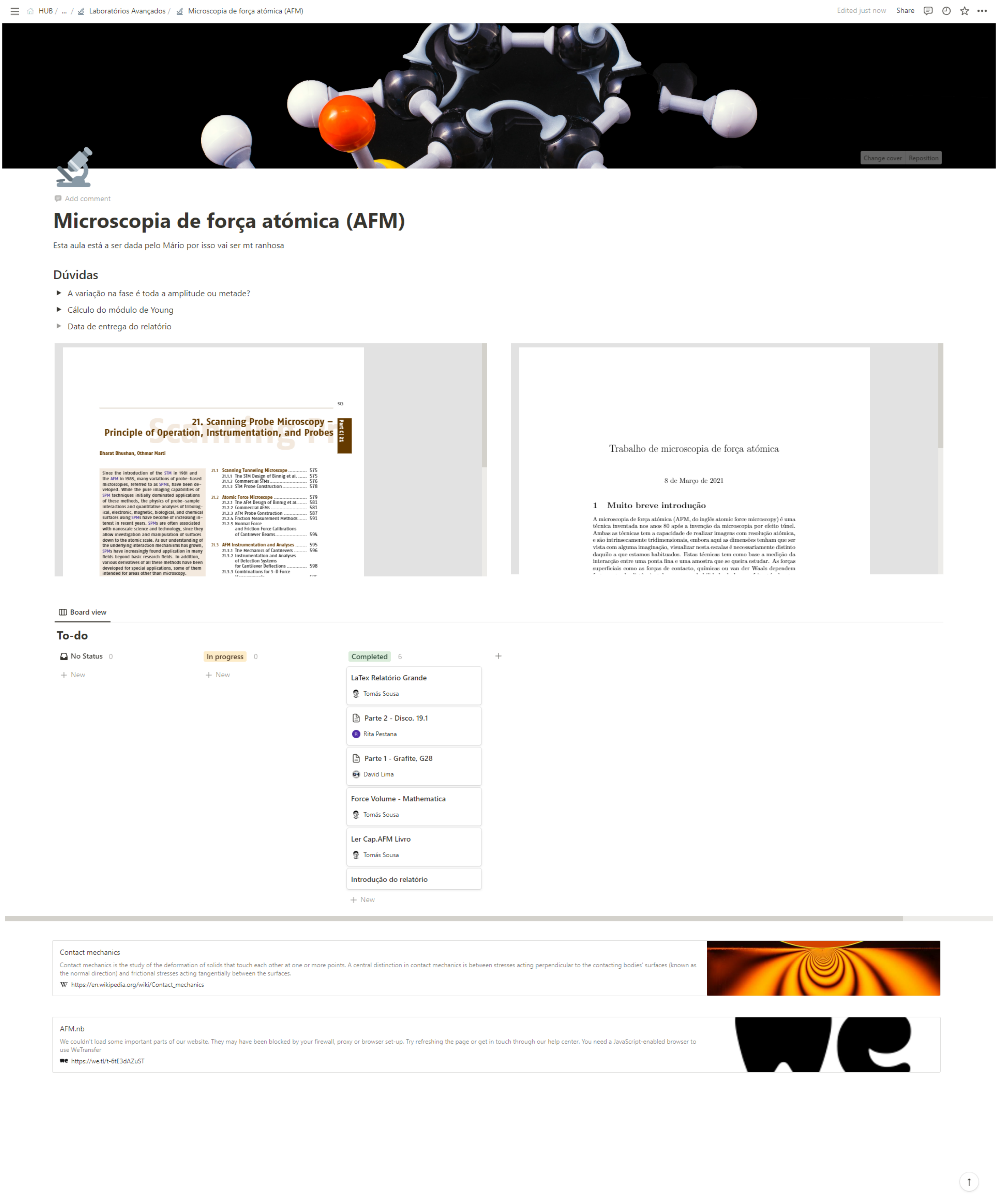
Note-taking

You can obviously create notes for your work!


9. Photomultiplier Tubes
To-do List
Easy images
Callouts
Equations

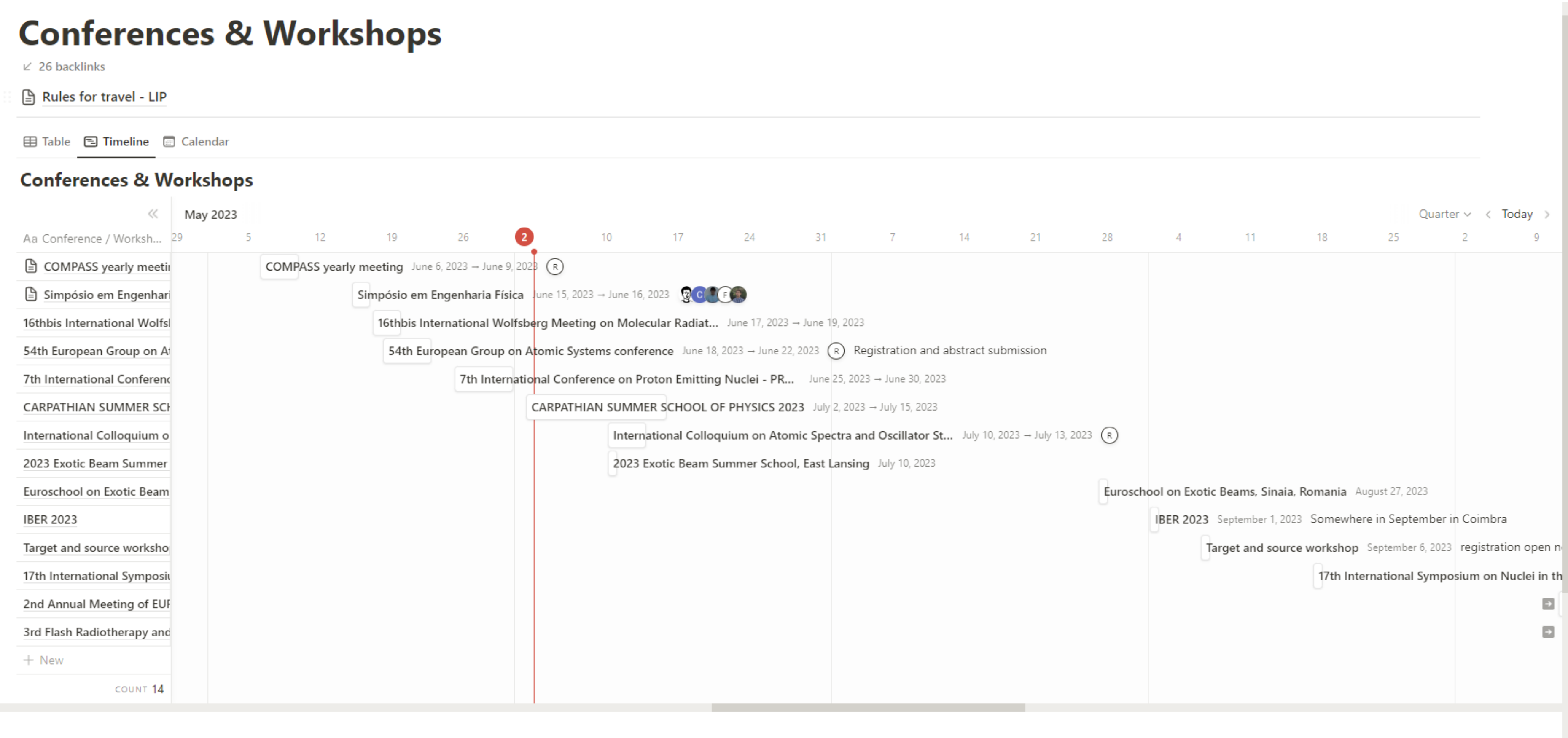
Collaborative work

If you're working with somebody else, this may be very helpful!



Task and project management

Timelines are great when tight schedules for posters or abstracts arrive!



Part 4: Hands-on!

Go to https://bit.ly/lip-notion-2023

Thank you for your attention!

This presentation was made using Notion 😀

Tomás Sousa, tsousa@lip.pt

🤲 Hands-on!

[INTERNSHIP NAME]