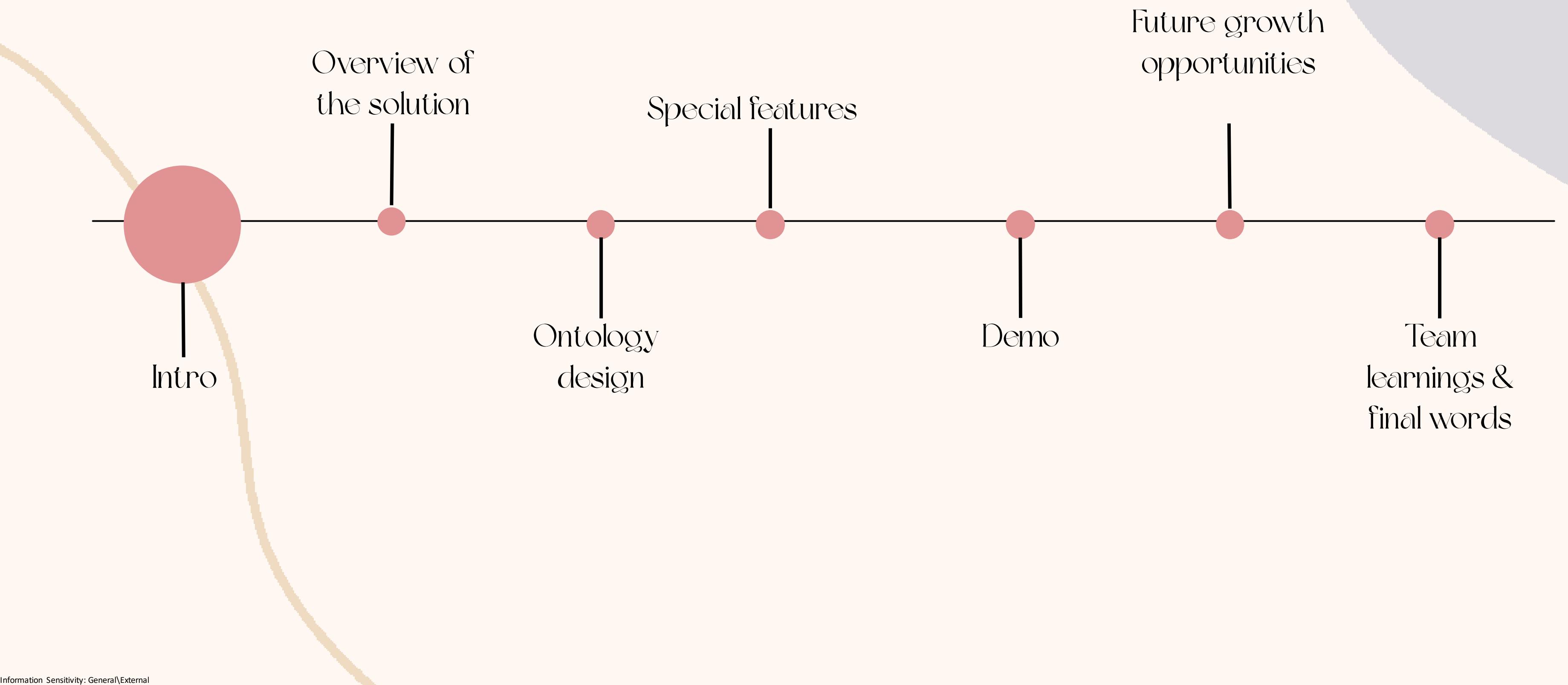


OPENEDU
UniFire

VERSION 11 - 2022

Timeline





A project, but mostly a cool journey..



Anna Wojcieszek

PM, Data Scientist
Athlete, Dog lover



Marco Pistis

Deputy PM, Data Scientist
Failed guitarist, Podcast lover



Ibtihel Ouni

Data Scientist, AI engineer
Avid Polyglot, and Dancer



Yasmine Mohamed

Data Scientist
Nature lover



Sonia Vigolo

BackEnd Developer
Always crafting something



Chueh Yang

Data Scientist
Foodie



Gilda Fernandez-Concha

Data Scientist, Team Satellite
Plant lover

Mood on kick-off day



**SEARCH
ENGINE**

**NO SQL
database**

ONTOLOGY

NLP



en

menu

Passion for learning. If you do, you will never cease to grow.

Anthony J. D'angelo

How can you improve
your **training**?

[MOOC](#), [VIDEO TUTORIAL](#), [KIT](#), [GUIDELINE](#)



Want to discover open
education **projects**?

[OPEN PLATFORMS AND WEBSITES](#)



Looking for **news** from
the OpenEdu world?

[ARTICLE](#), [REPORT](#), [EVENT](#), [CONTEST](#)



To whom ▾ Level ▾ Topic ▾ Category ▾ Skill ▾ Partner ▾ Projects Name ▾ Language ▾

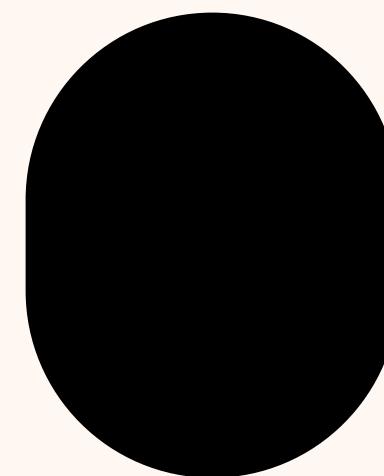
Mood the day after



Anna Wojcieszek
PM, Data Scientist



Marco Pistis
Deputy PM, Data Scientist



Ibtihel Ouni
Data Scientist, AI
engineer



Yasmine Mohamed
Data Scientist



Sonia Vigolo
BackEnd Developer



Chueh Yang
Data Scientist

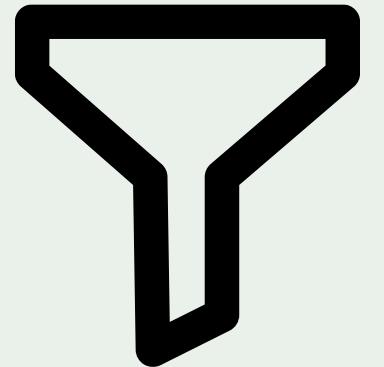


Gilda Fernandez-Concha
Data Scientist, Team Satellite

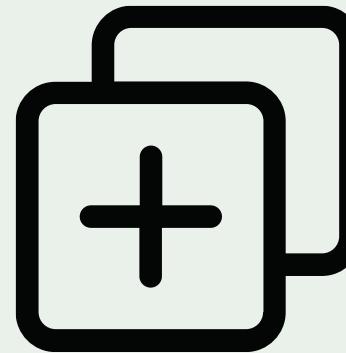
Key issues we identified:



Difficult browsing and discovery of content



Filters are not intuitive enough

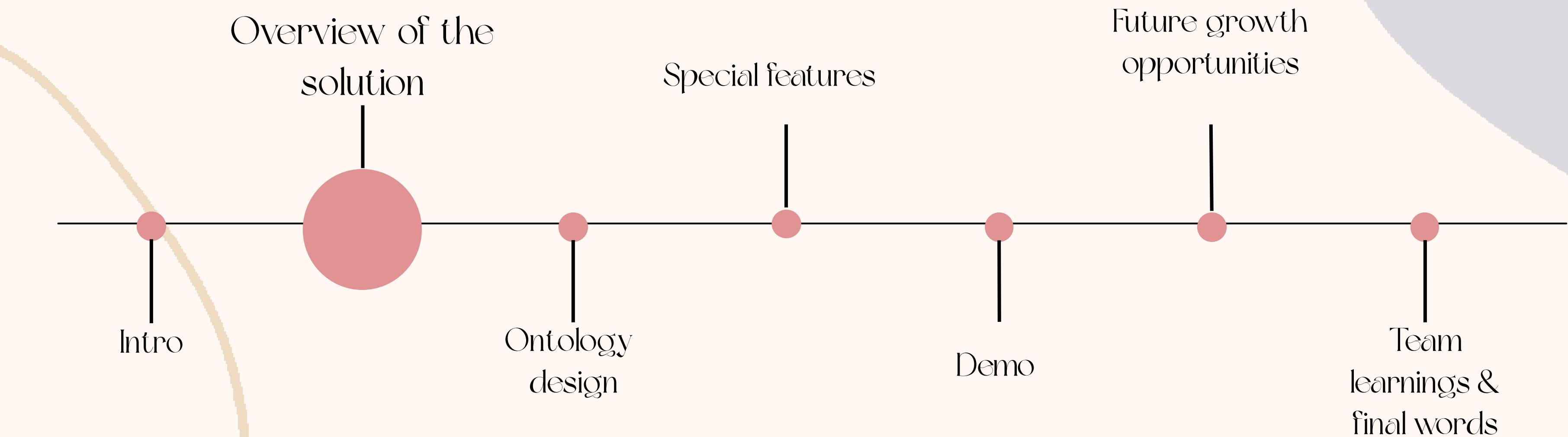


Content duplications



Complex uploading process for new content

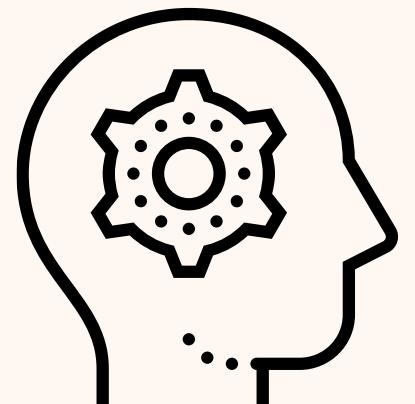
Timeline





“Imagine a world in which every single
~~-person~~ **intelligent agent** on the planet is
given free access to the sum of all human
knowledge.”

Paraphrasing the original quote by J.
Walles

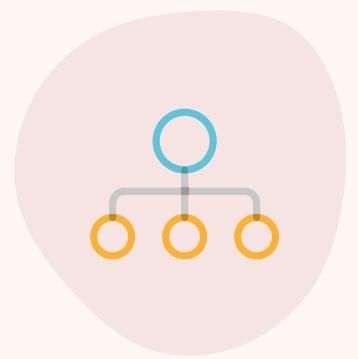




AI Engine

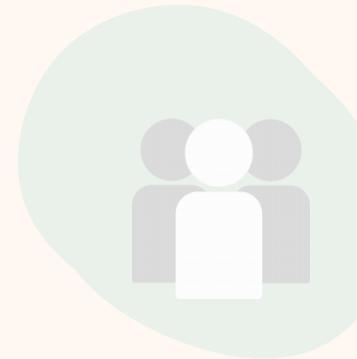
OPENEDU
ai fire

Our value proposition



Structured

Versatile Ontology



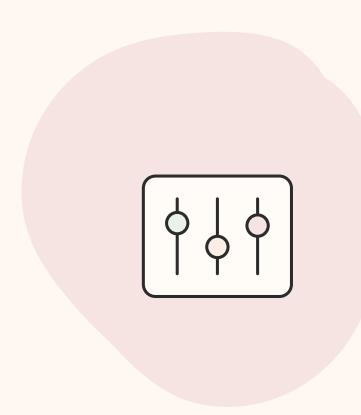
Collaborative

Foster Collaboration &
Networking between
Authors



User-friendly

- Accessibility
- Smoother Upload



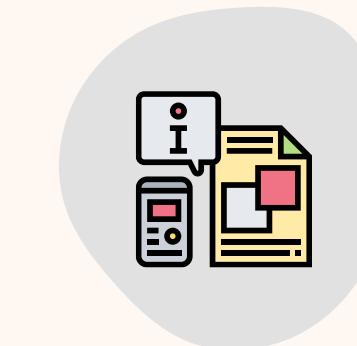
Moderated

- Content Moderation
and Approval



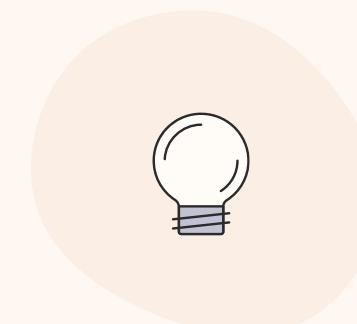
Global | Inclusive

Multilingual Support for
Ontology



Informative | Beyond the existing content

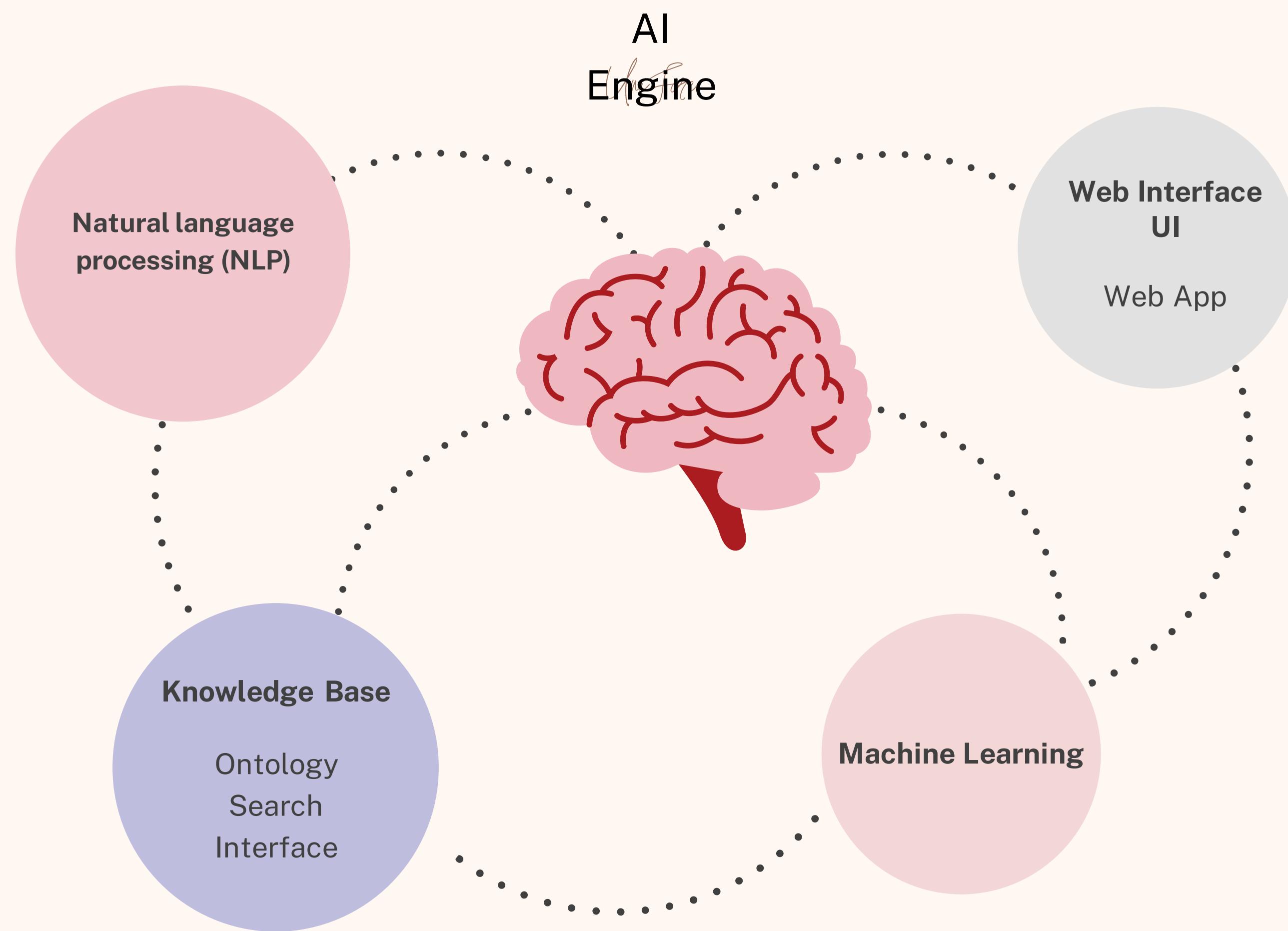
- New relevant content
Discovery from
Automatic Crawling

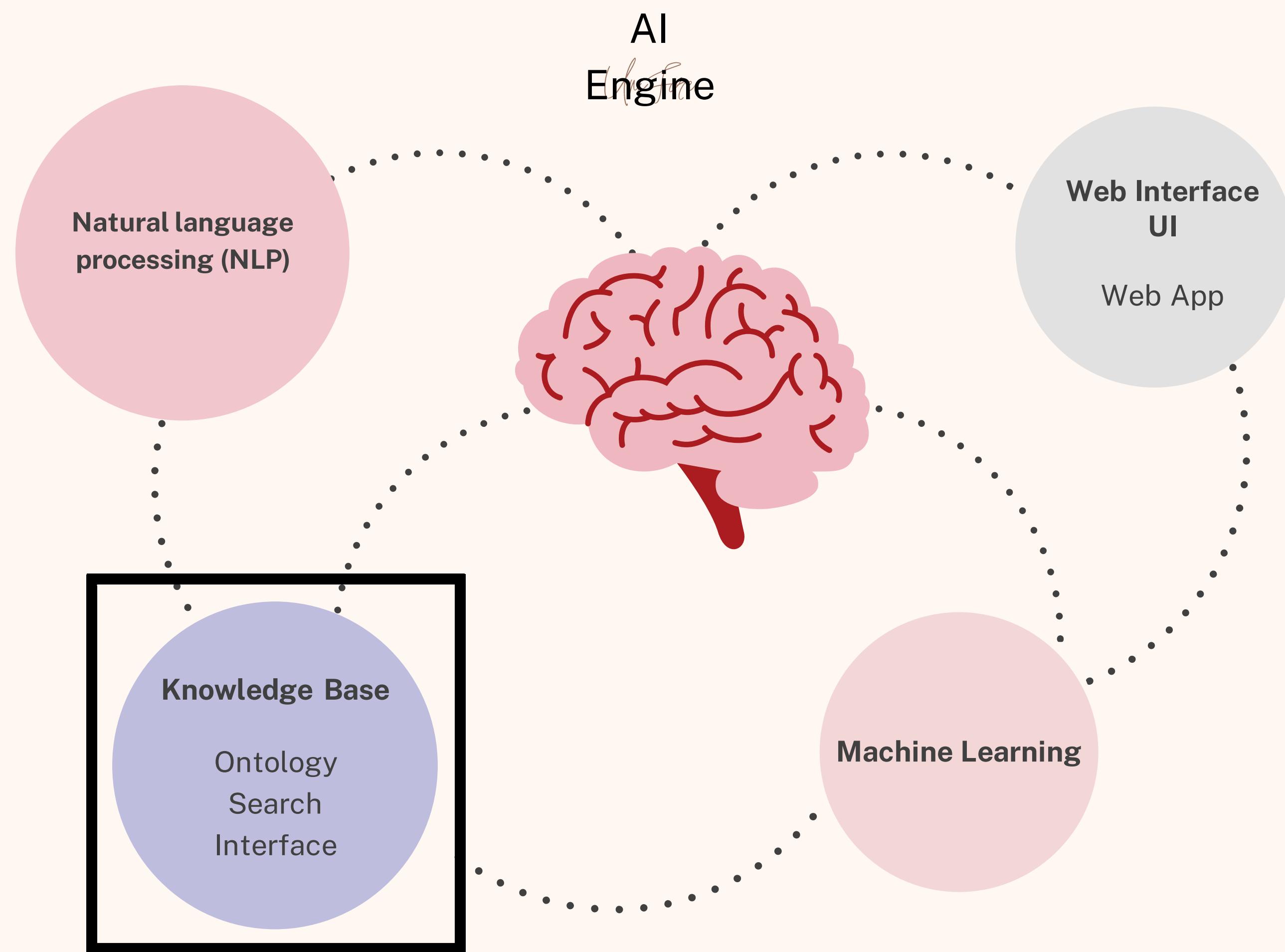


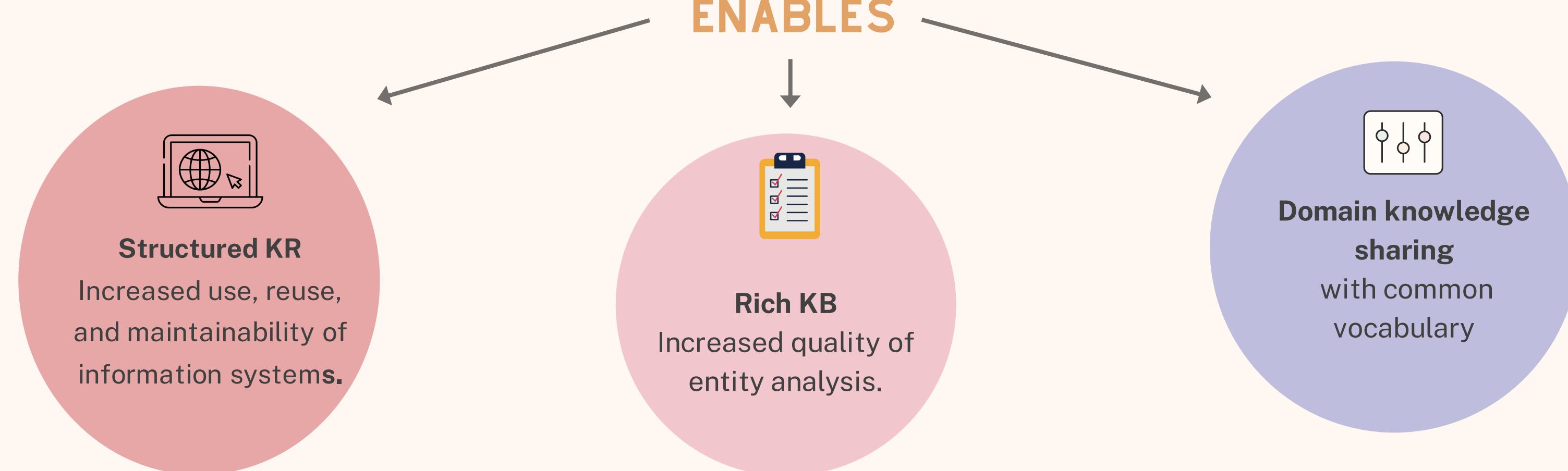
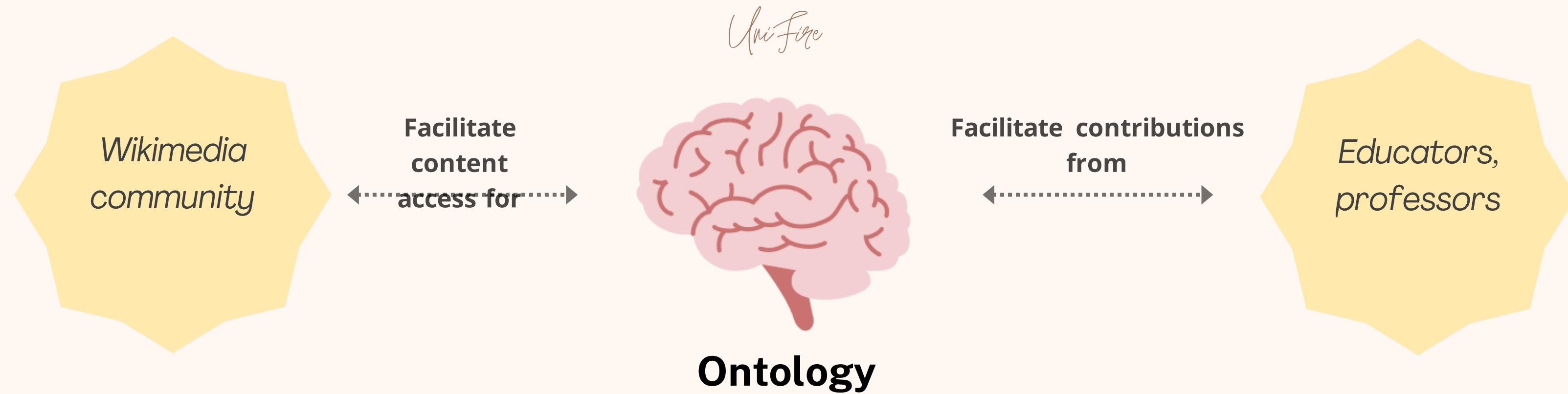
Innovative and cool

AI-based | Automated
Features

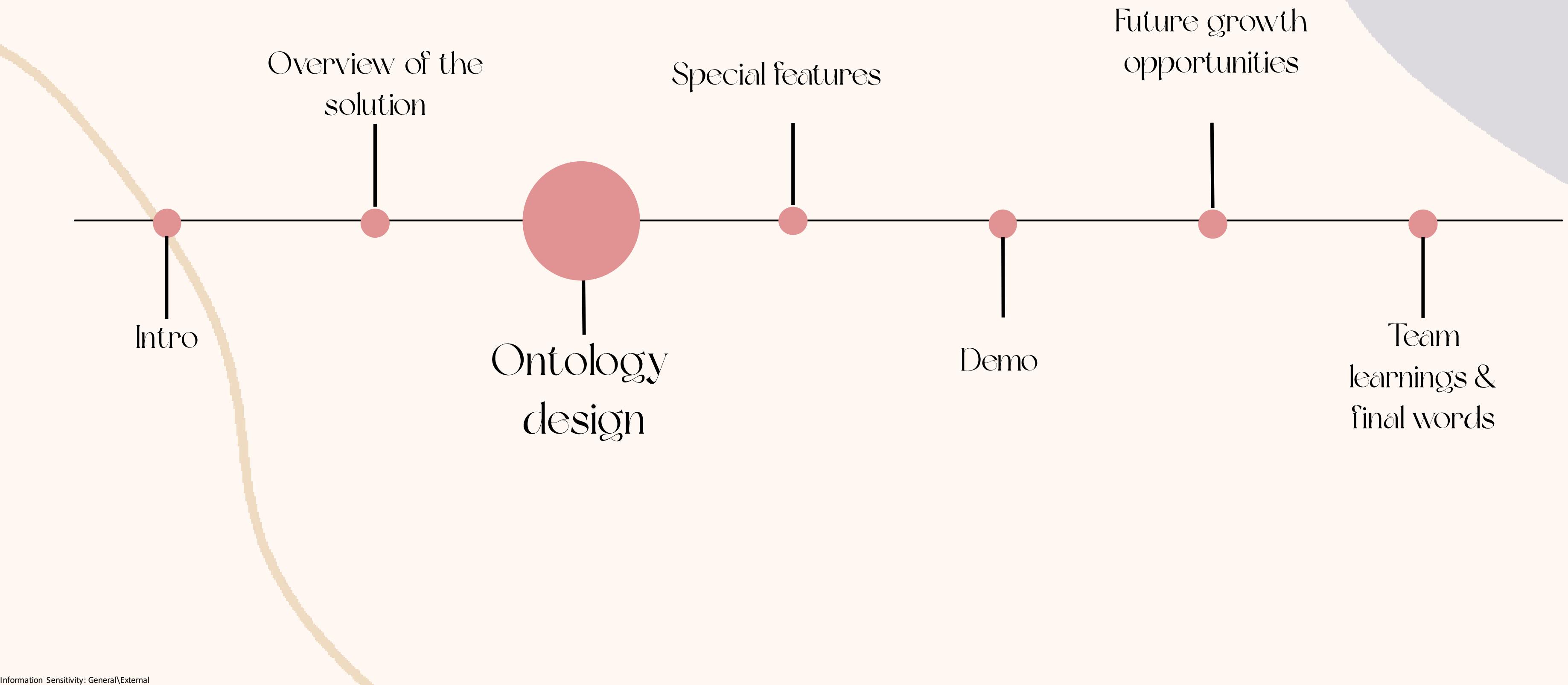
...



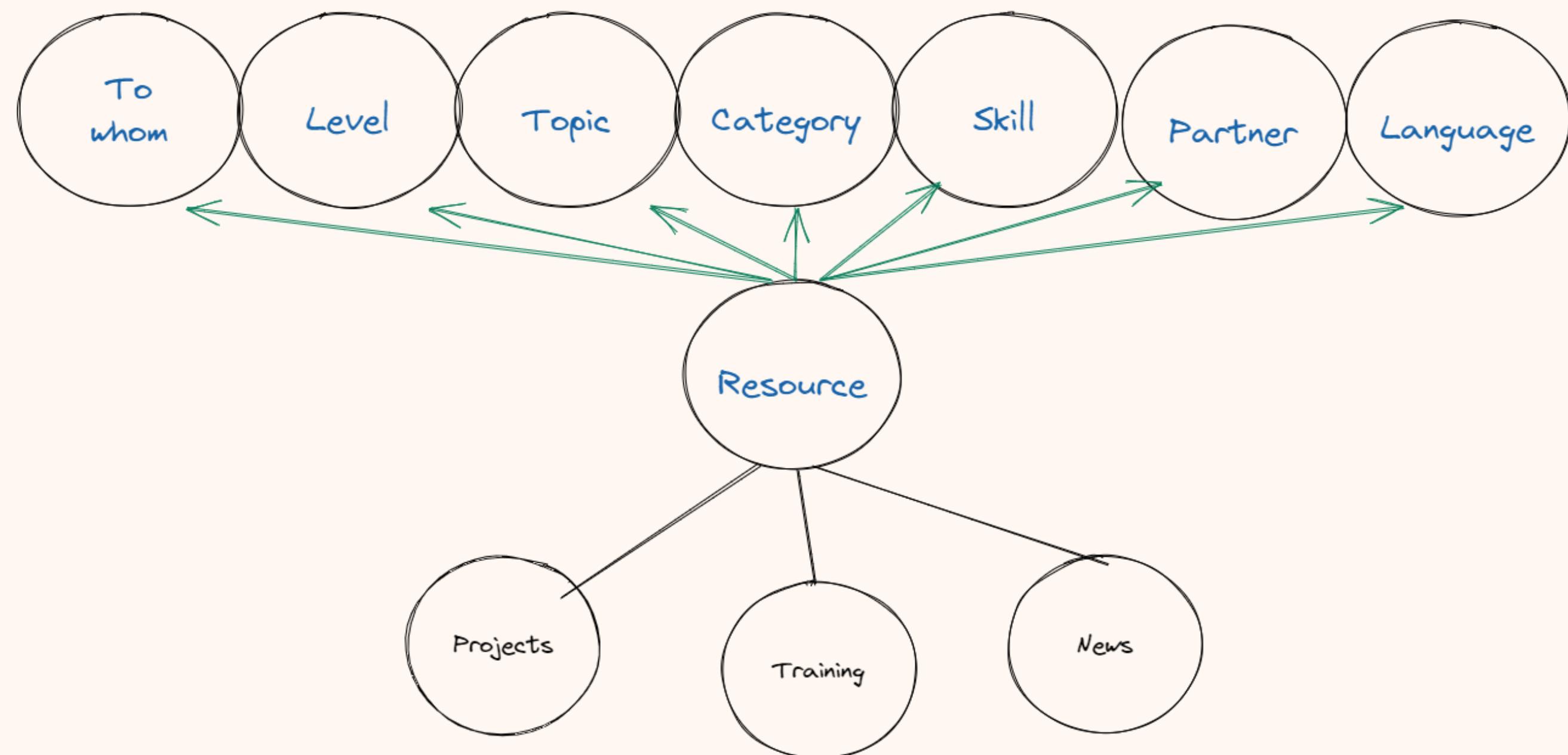




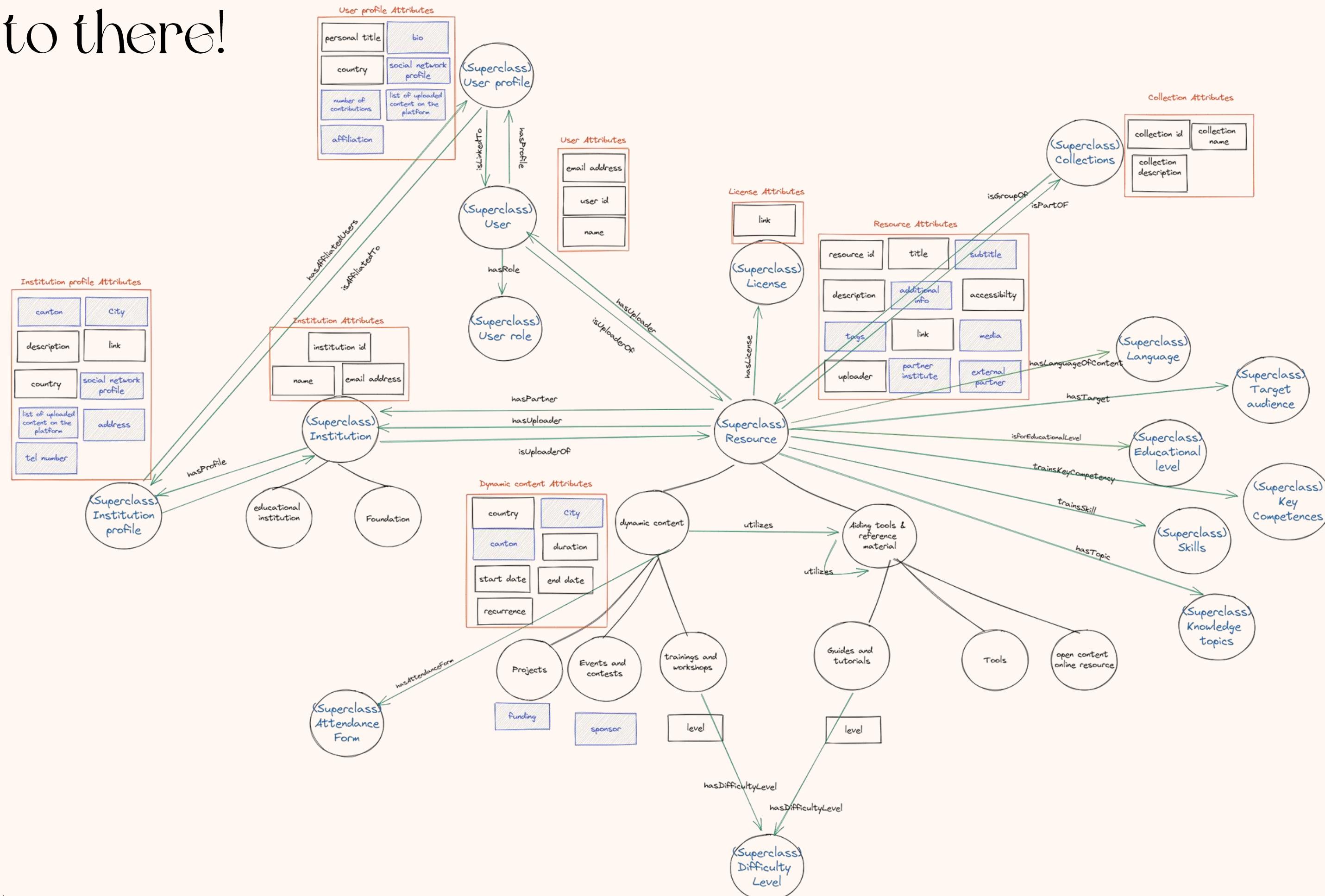
Timeline

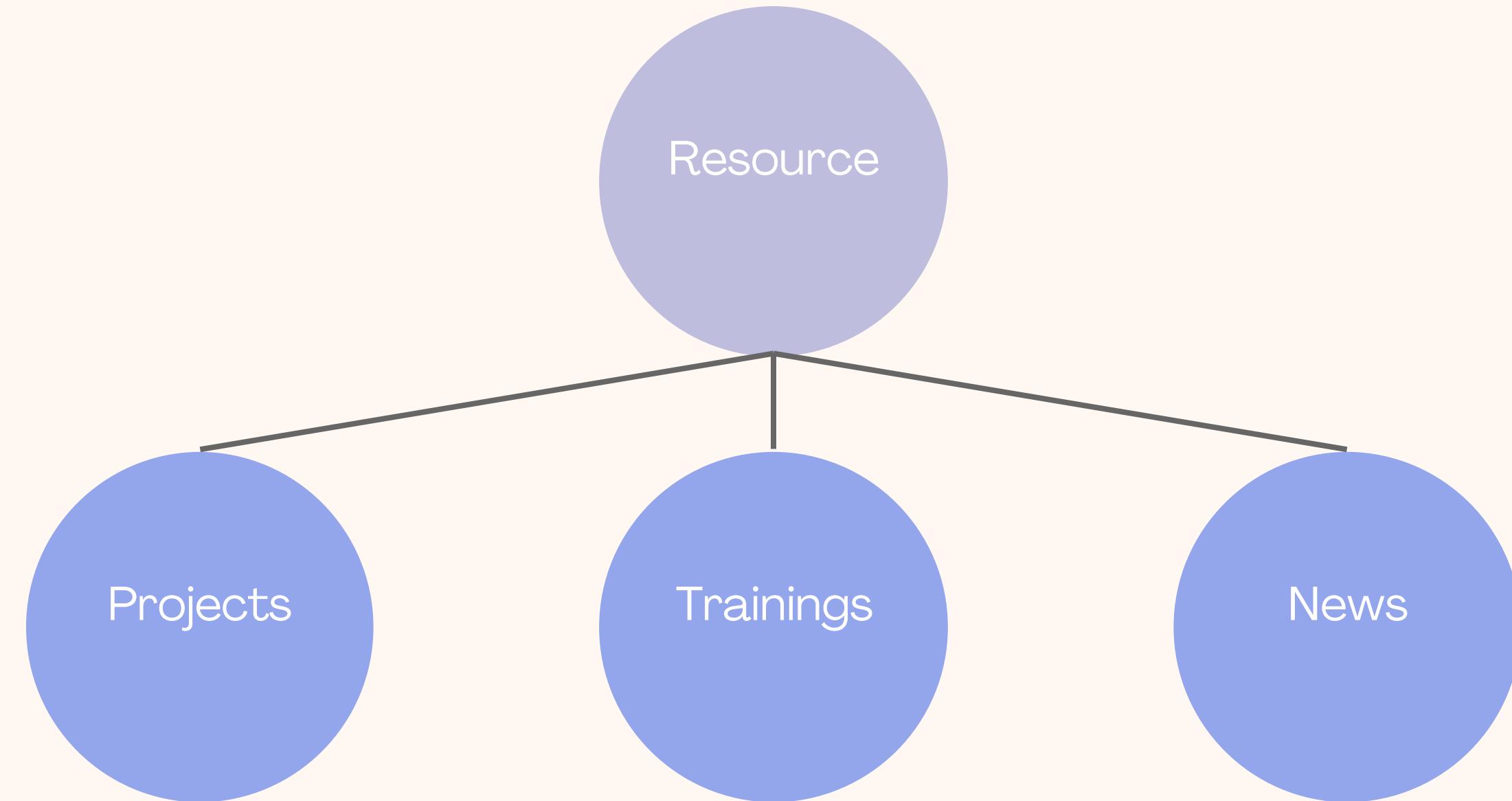


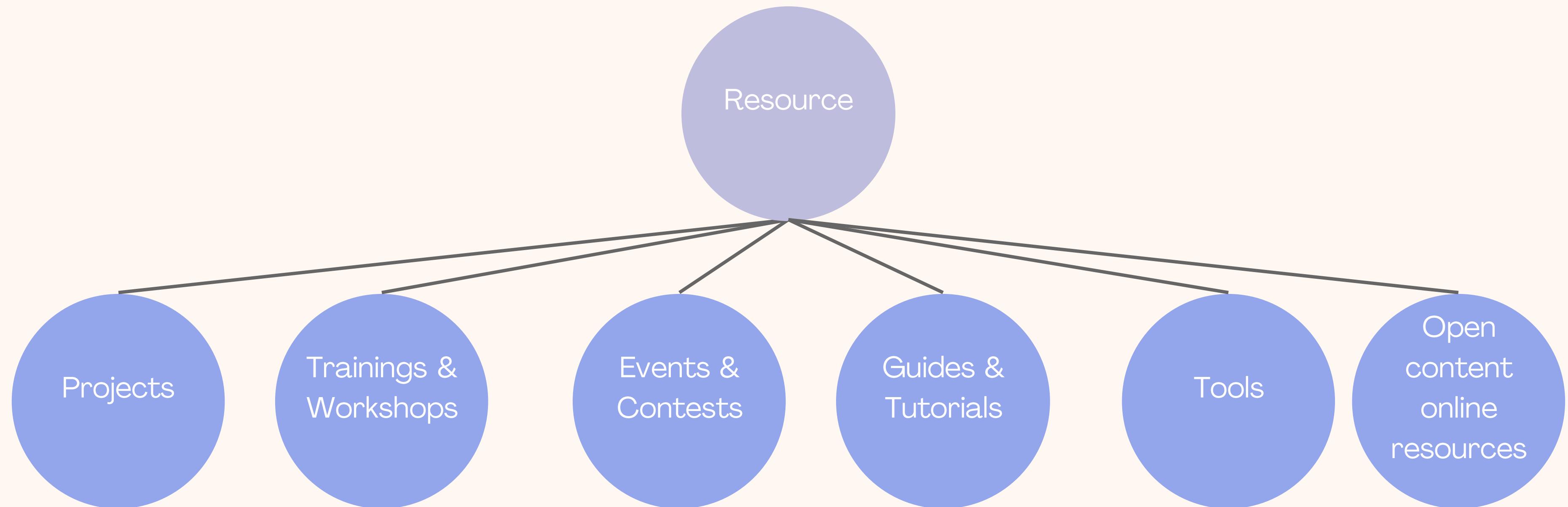
The story of how we went from here.....

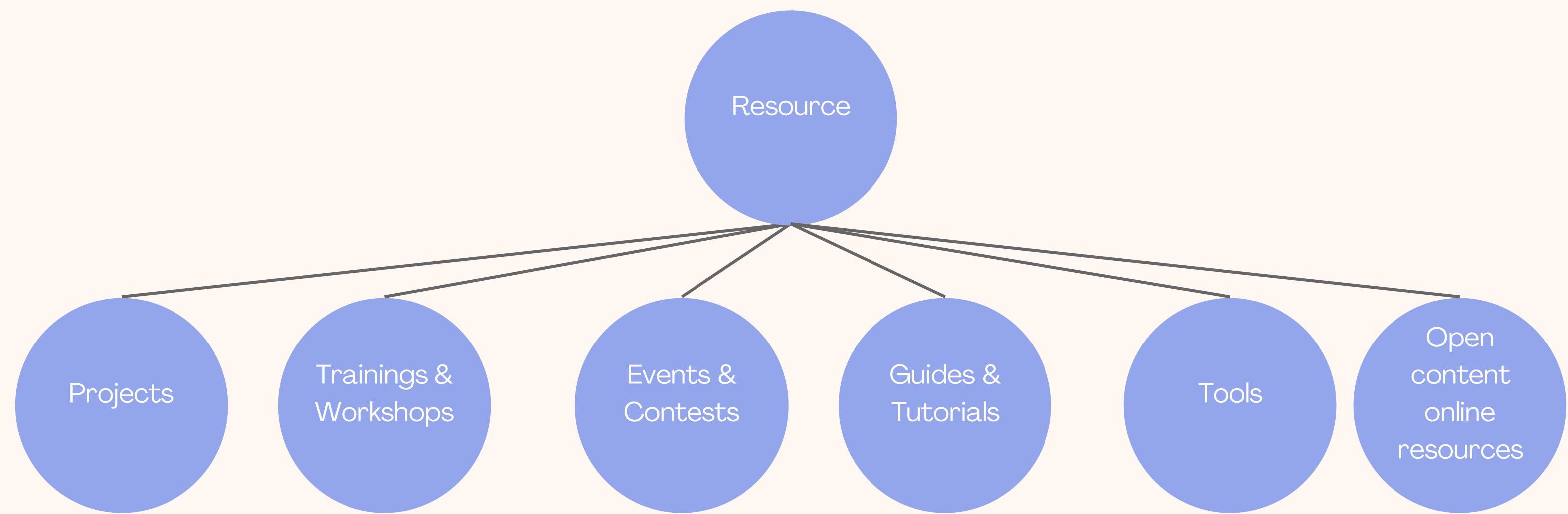


..... to there!









Explore by content type

Projects past and ongoing open education projects	Events & Contests discover upcoming events	Aiding Tools tools to aid your learning journey
Guides & Tutorials reference material to guide your journey	Online Resources discover open content online resources	Trainings & Workshops sculpt your skills

Projects
past and ongoing open education projects

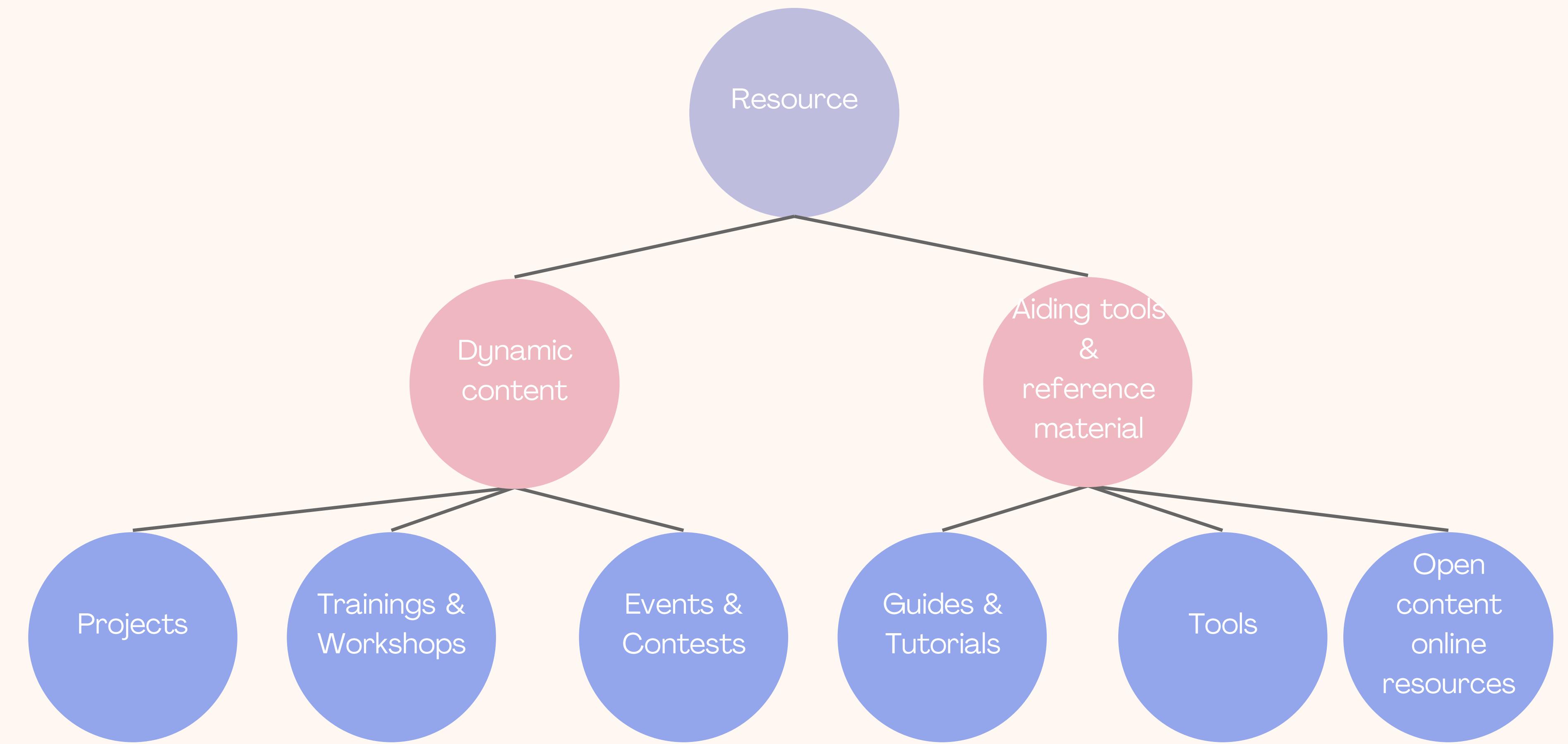
Events & Contests
discover upcoming events

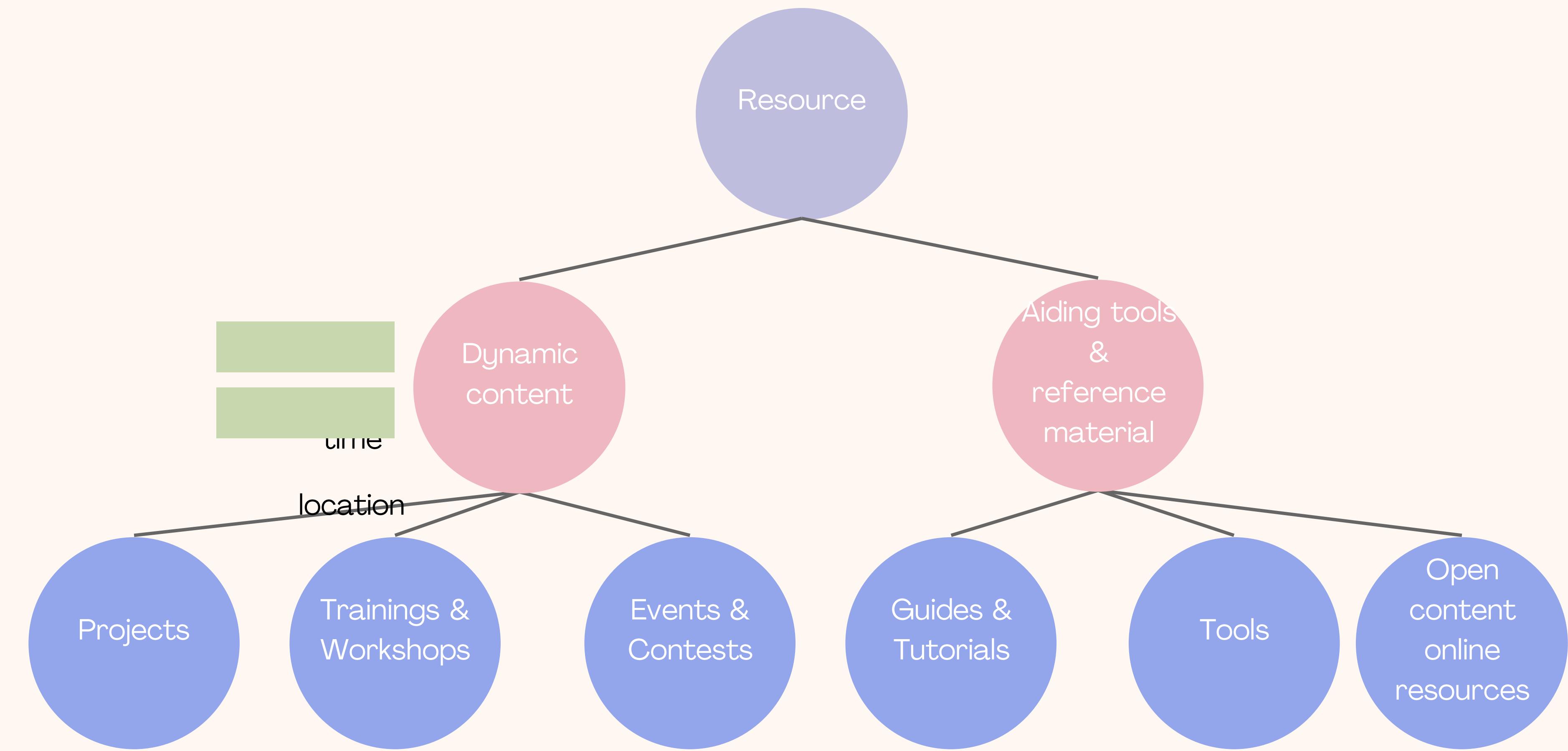
Aiding Tools
tools to aid your learning journey

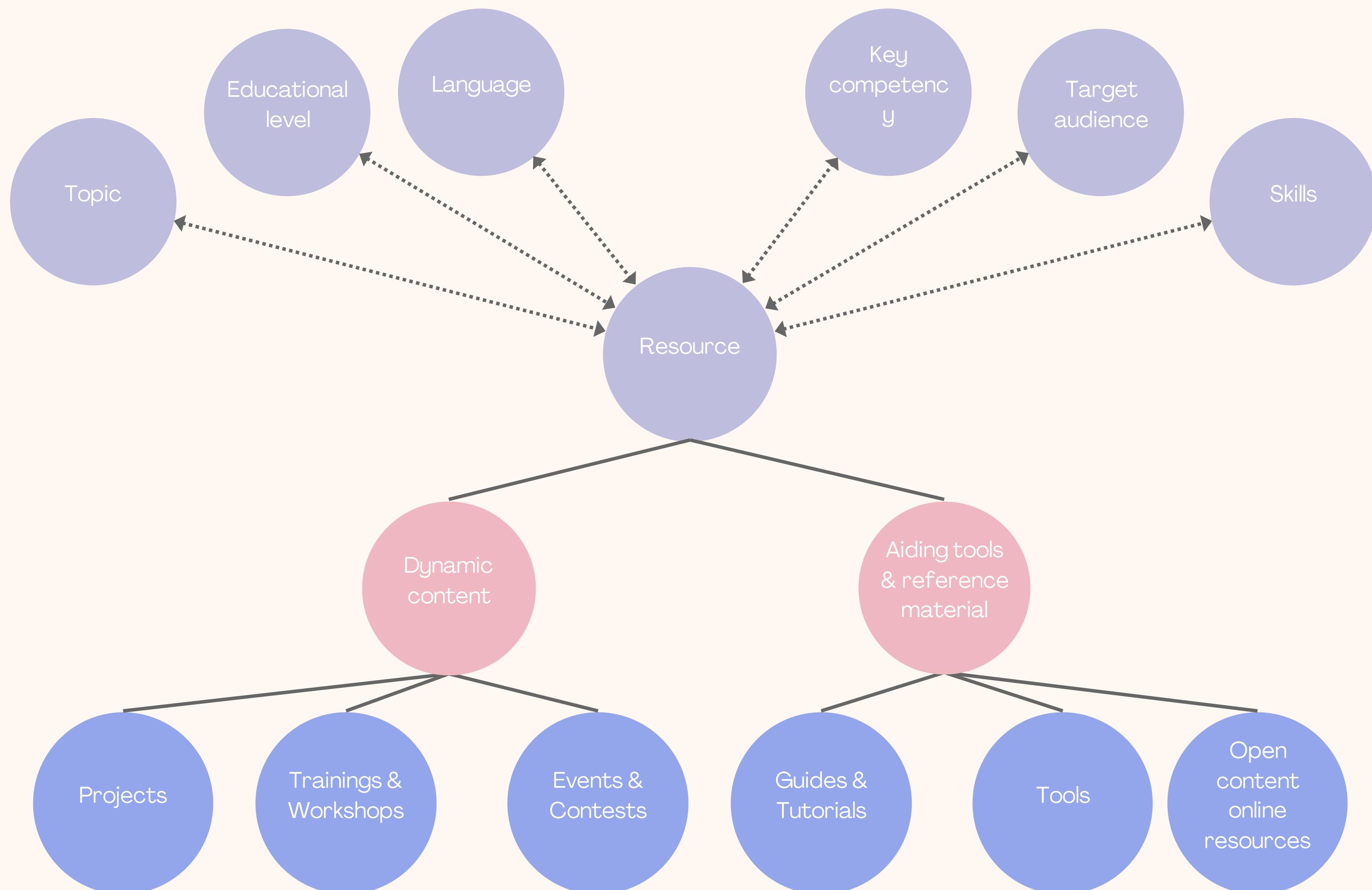
Guides & Tutorials
reference material to guide your journey

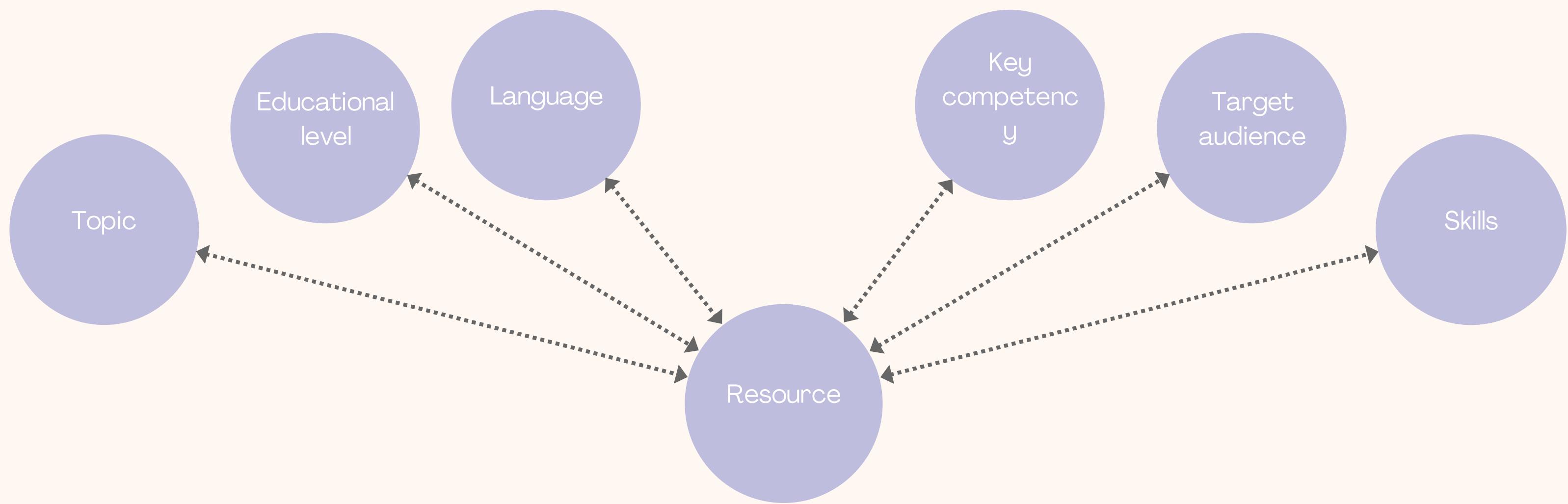
Online Resources
discover open content online resources

Trainings & Workshops
sculpt your skills











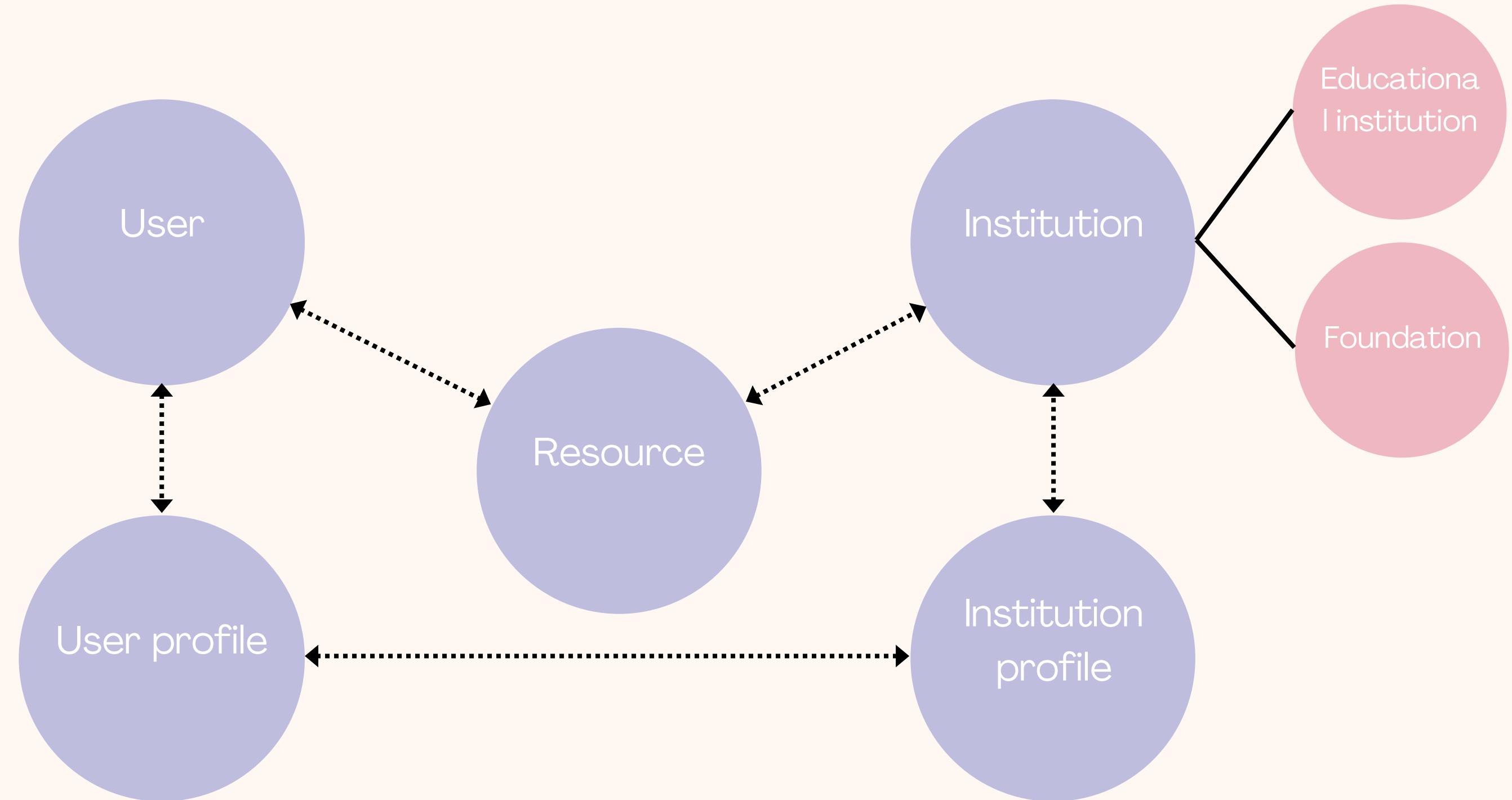


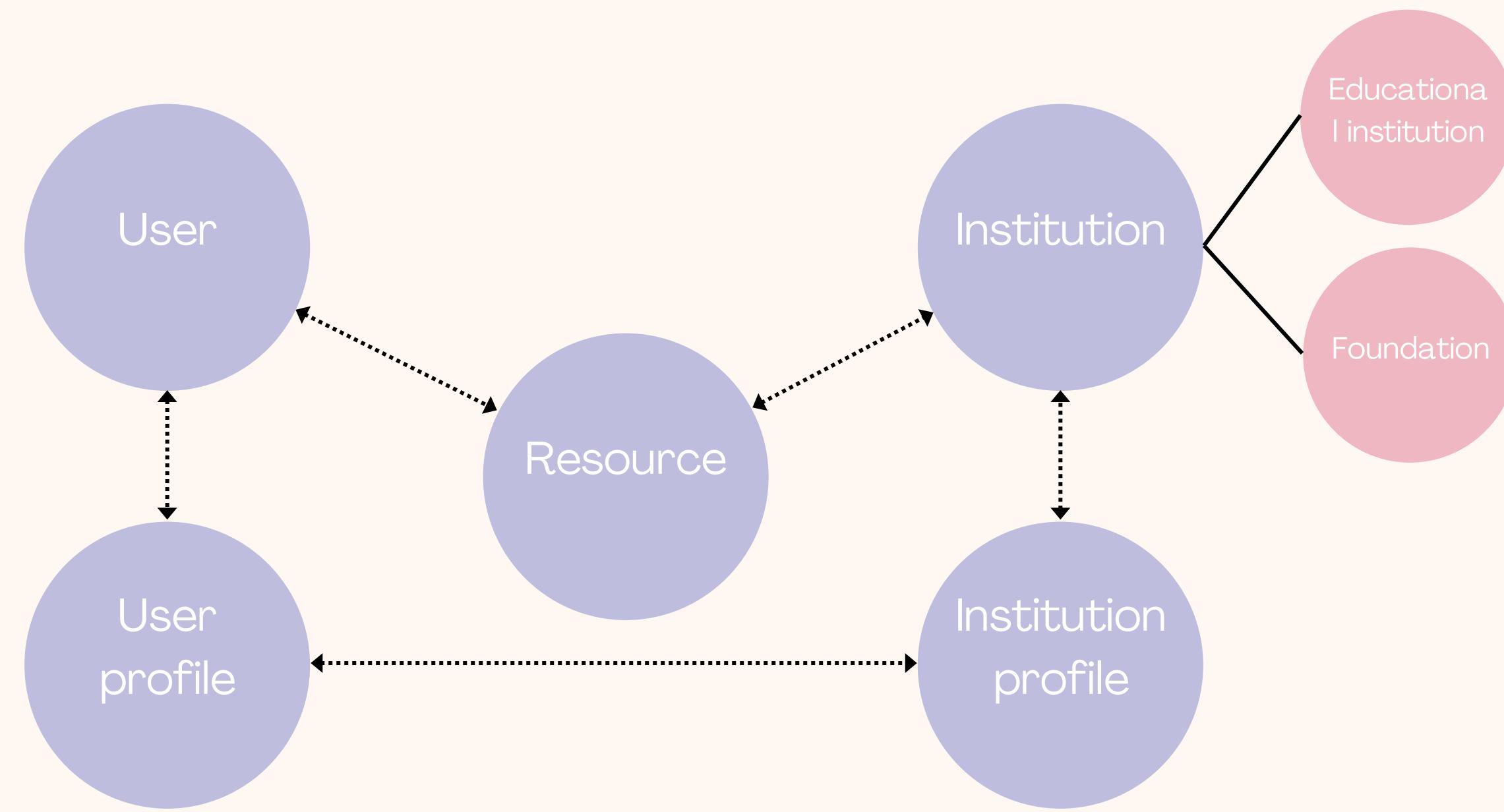
Explore by collection

<< >>

**Wikimedia
sister
projects**

**Wikipedia-
related
content**





Individual

Email *

Password *

Register Login

Forgot Your Password ?

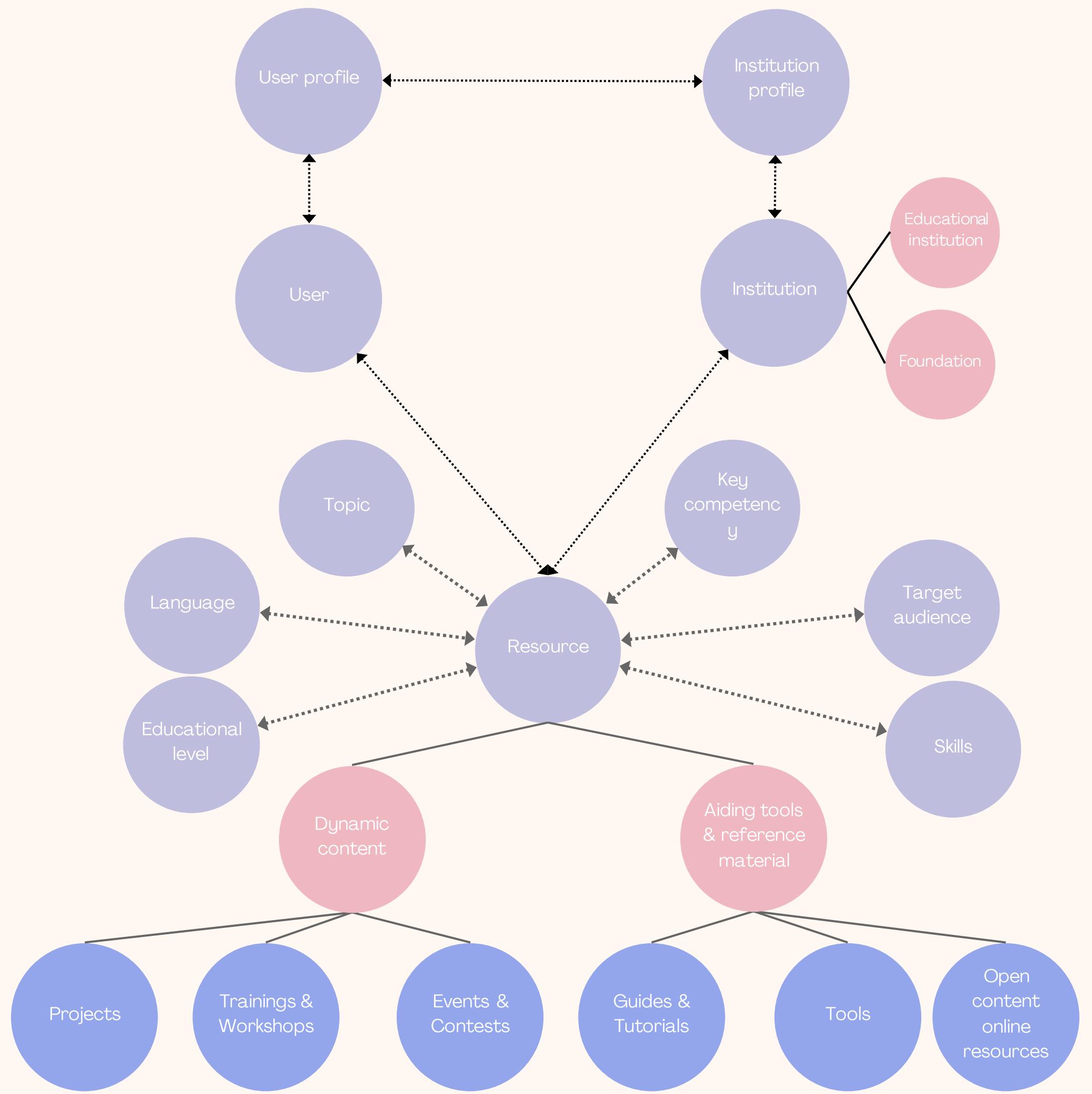
Institution

Email *

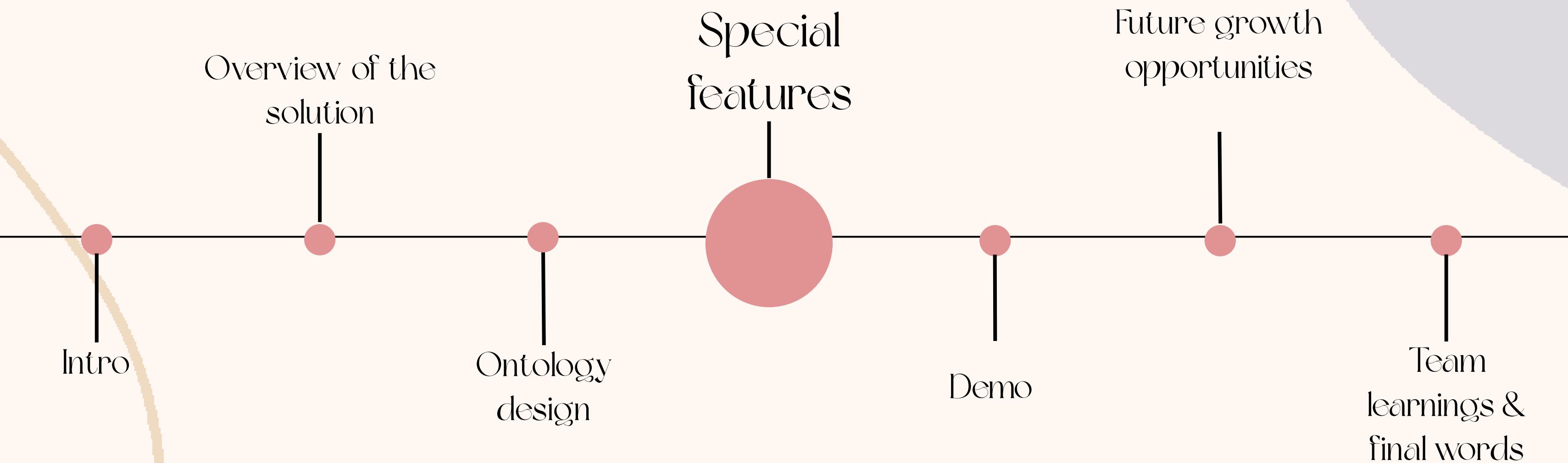
Password *

Register Login

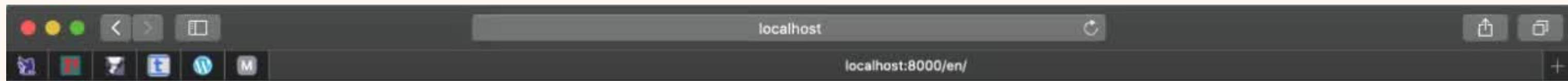
Forgot Your Password ?



Timeline



Multilingual Support



Language:

[English](#) [français](#) [italiano](#) [Deutsch](#)

Resources

[Add new resource?](#)

[Wikipedia - en.wikipedia.org](#)

This is wikipedia

Nov. 12, 2022 - Level: Beginner - Key Competence: Digital

[Reading Wikipedia in the Classroom - https://www.youtube.com/watch?v=MmSAsvf6j7w](#)

Bringing Wikipedia into the schools

Nov. 12, 2022 - Level: Intermediate - Key Competence: Multilingual

[Commons - https://commons.wikimedia.org/](#)

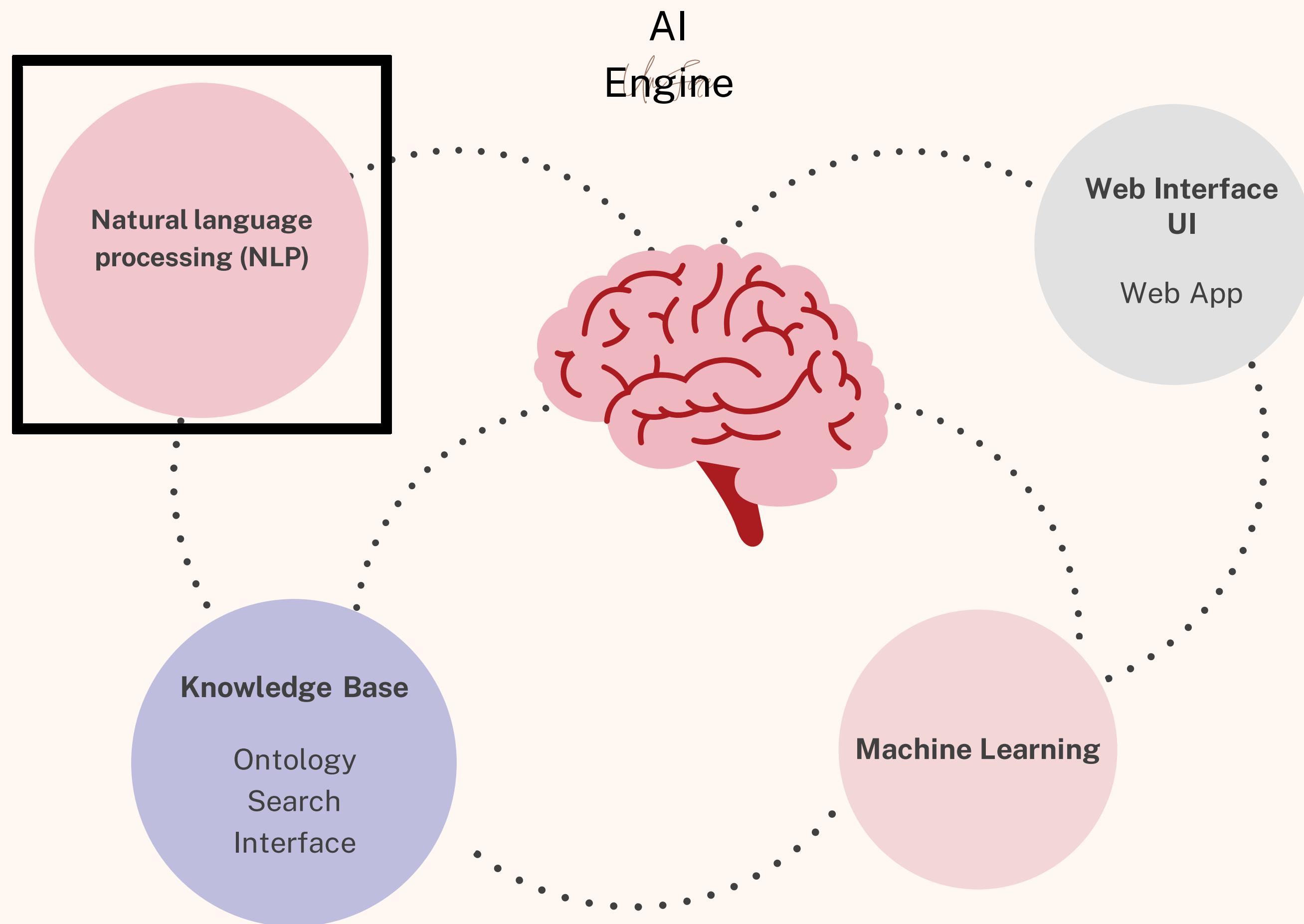
A free to access multimedia resources archive

Nov. 12, 2022 - Level: Intermediate - Key Competence: Digital

[Immunomedia - https://www.immunomedia.org/](#)

Immunology and Wikipedia

Nov. 13, 2022 - Level: Advanced - Key Competence: Literacy



NLP Pipeline

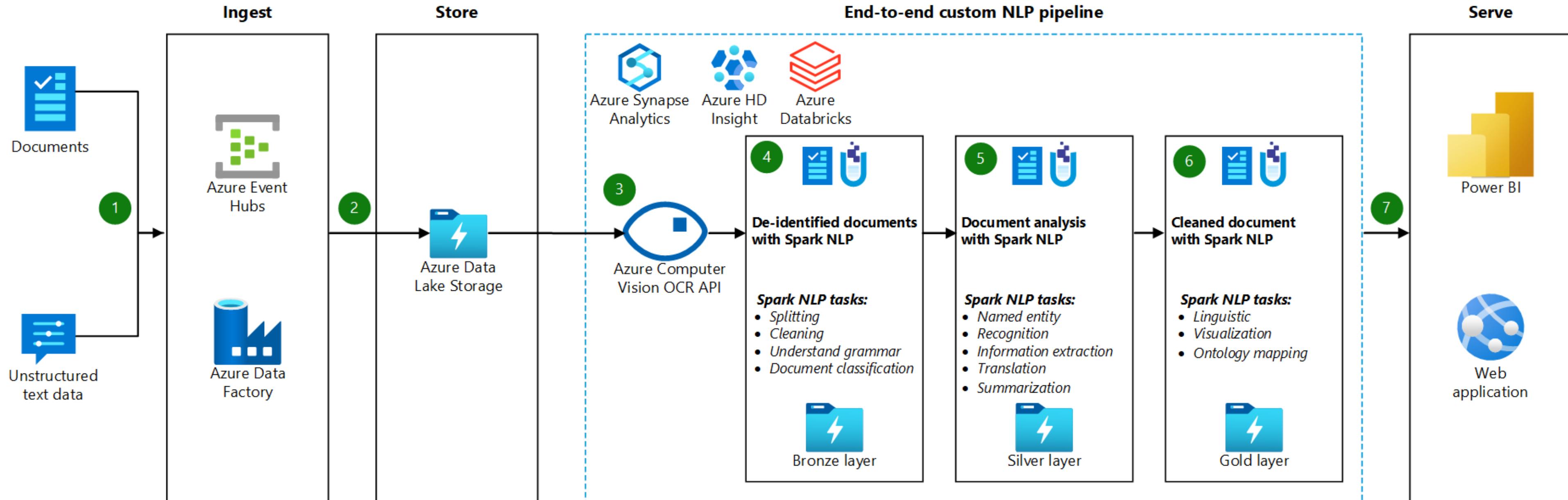
John Snow LABS

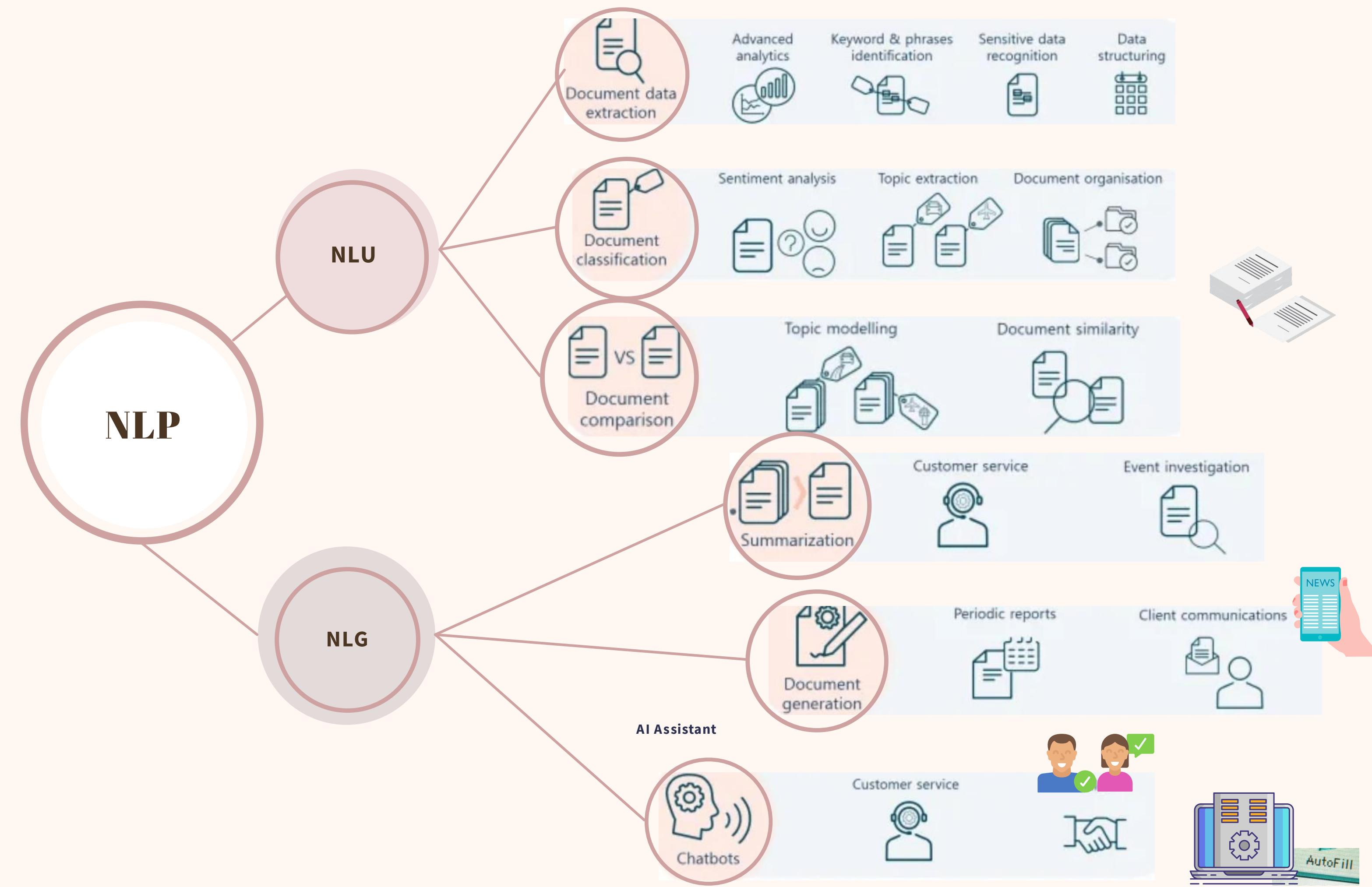


Streamlit

spaCy

PYCARET





X

About App

NLPiffy App with Streamlit

Cudos to the Streamlit Team

By

Ibtihel Ouni

OpenEdu UniFire



NLPiffy with UniFire

Natural Language Processing On the Go..

Description

- This is a Natural Language Processing(NLP) Based App useful for basic NLP task

Tokenization, NER, Sentiment, Summarization

Enter Text

Type Here ..

1

Show Tokens and Lemma

Show Named Entities

Show Sentiment Analysis

Show Text Summarization

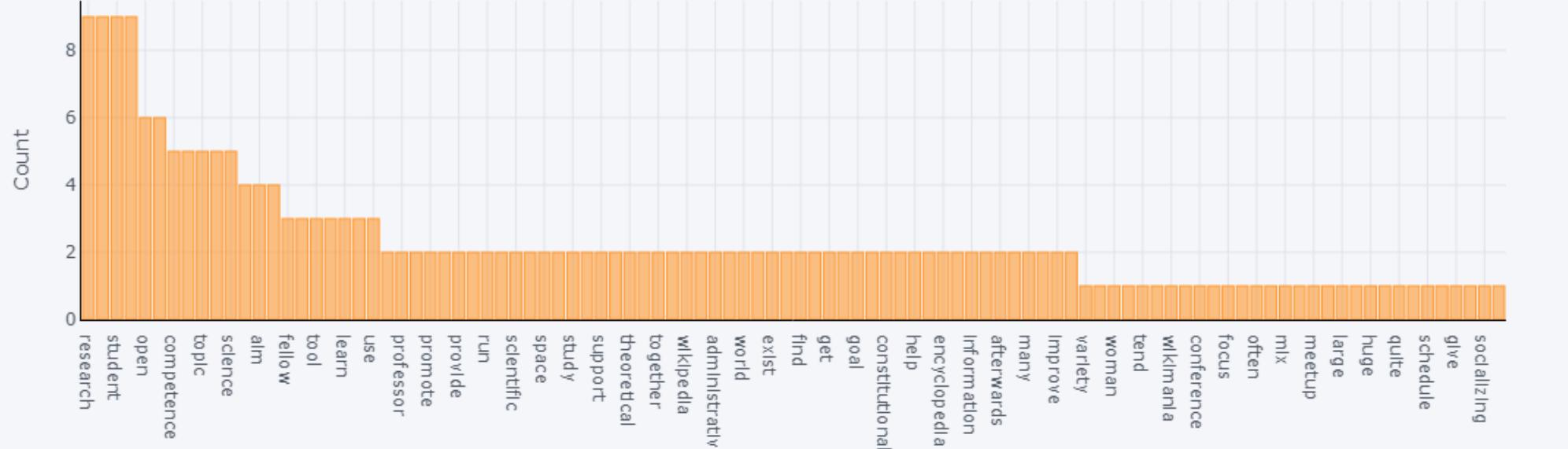


Analysis and Experiments

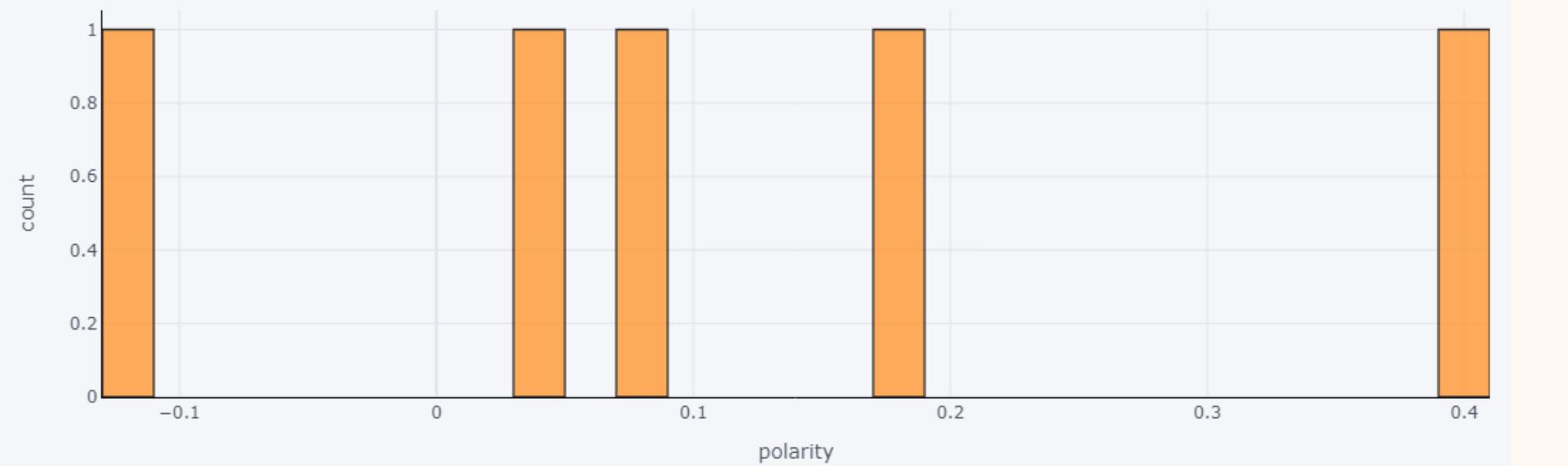


Towards data-driven decision
making..

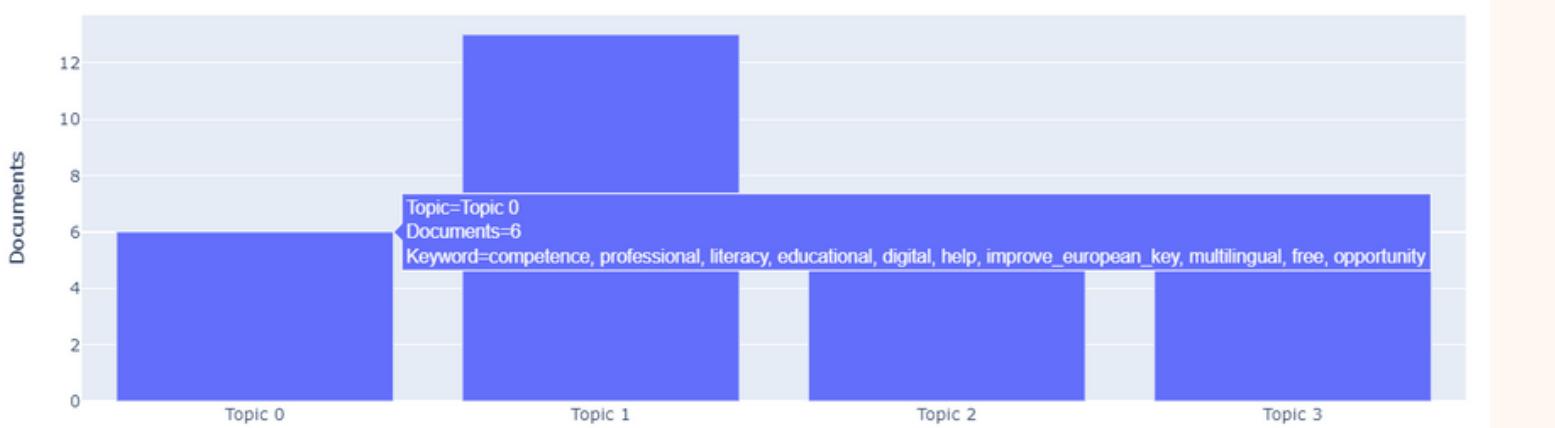
Topic 0: Top 100 words after removing stop words



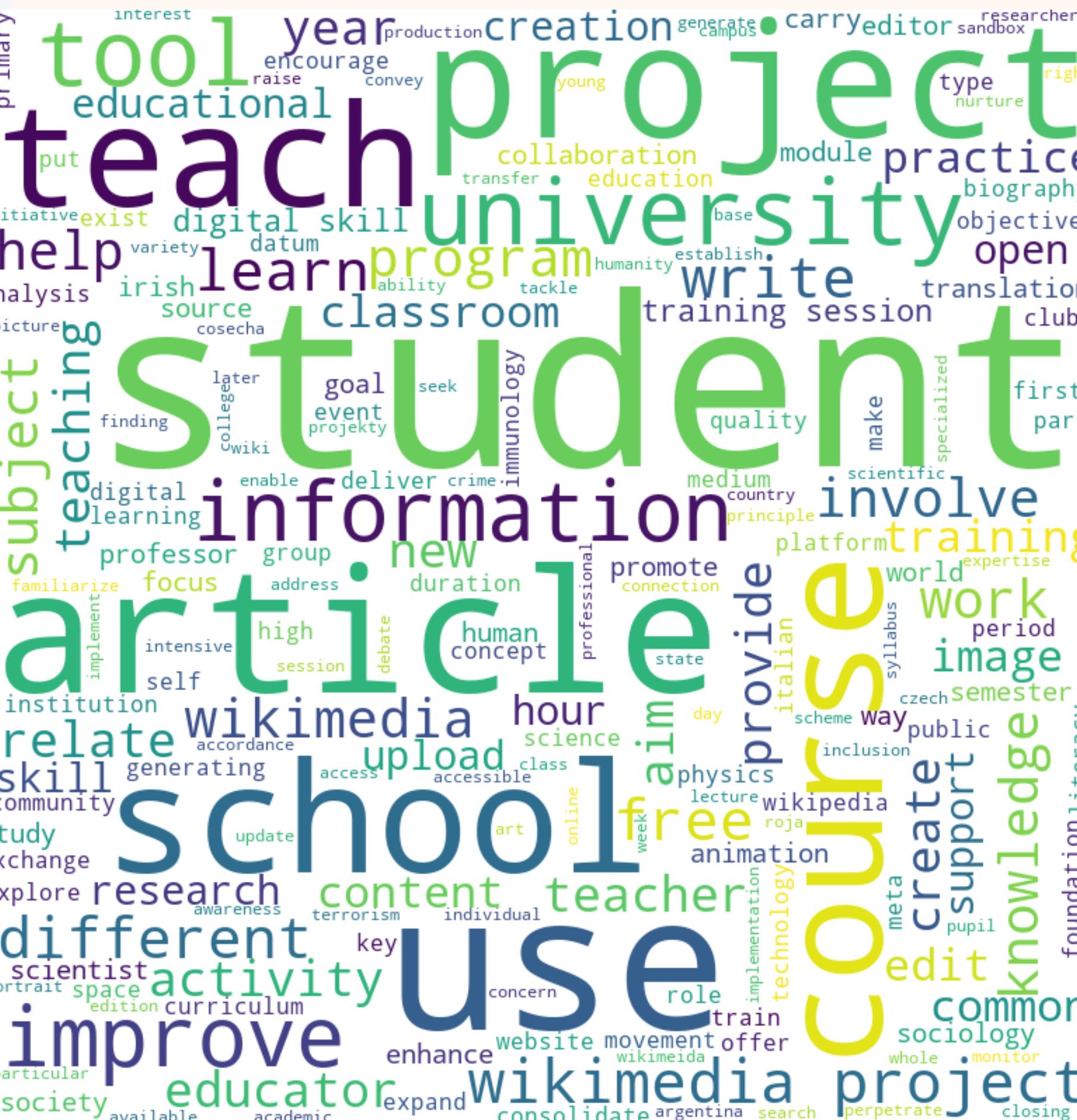
Topic 0: Sentiment Polarity Distribution

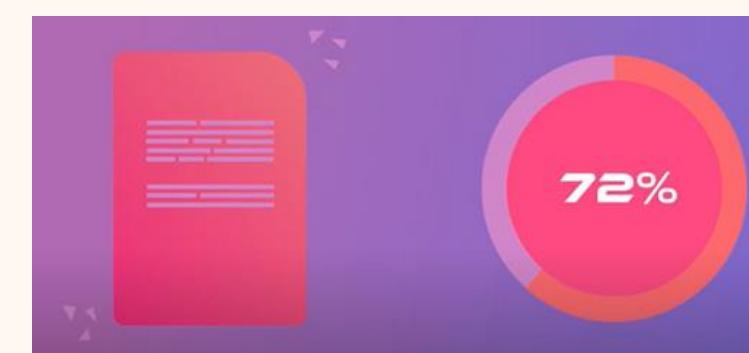
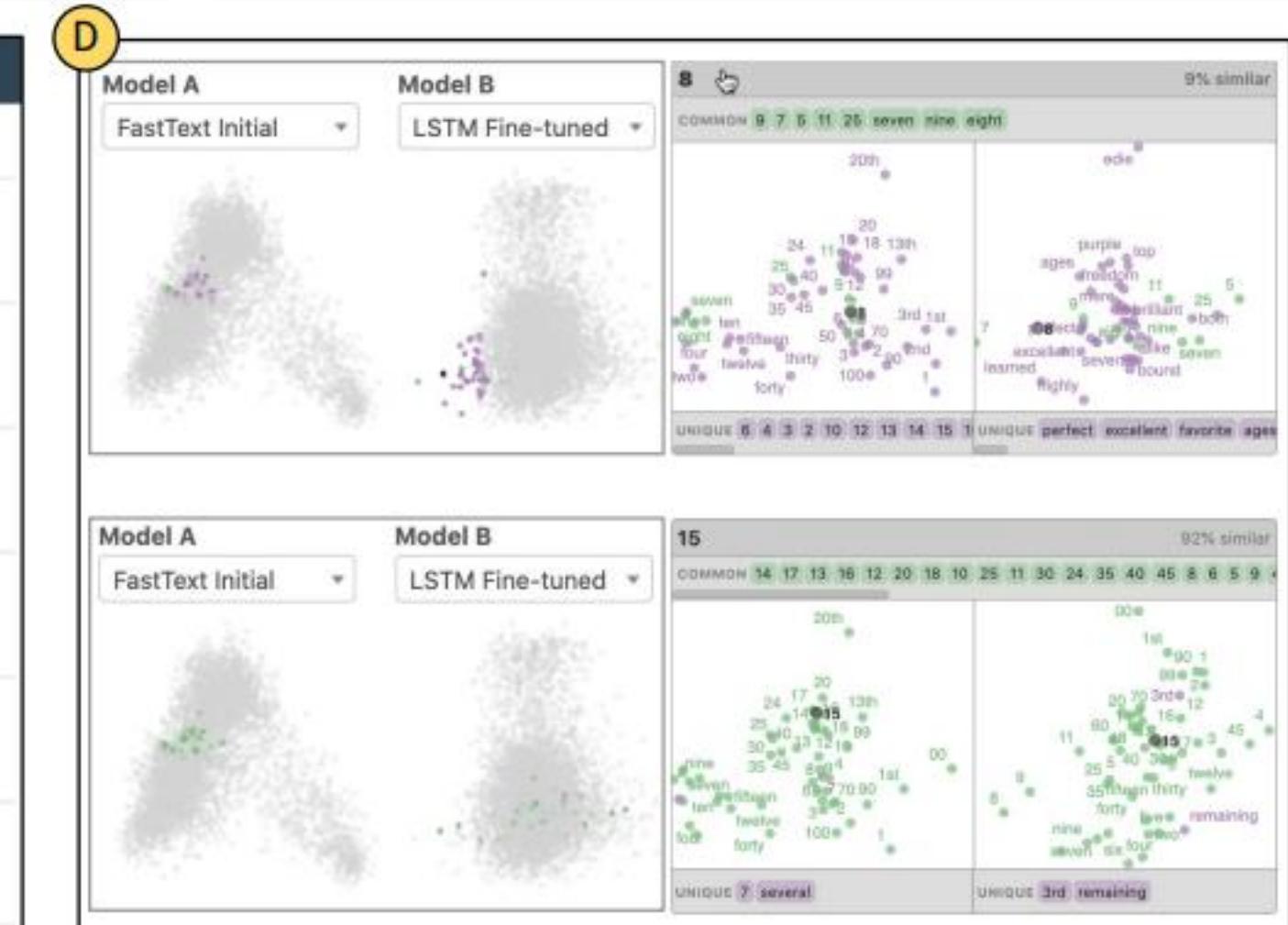
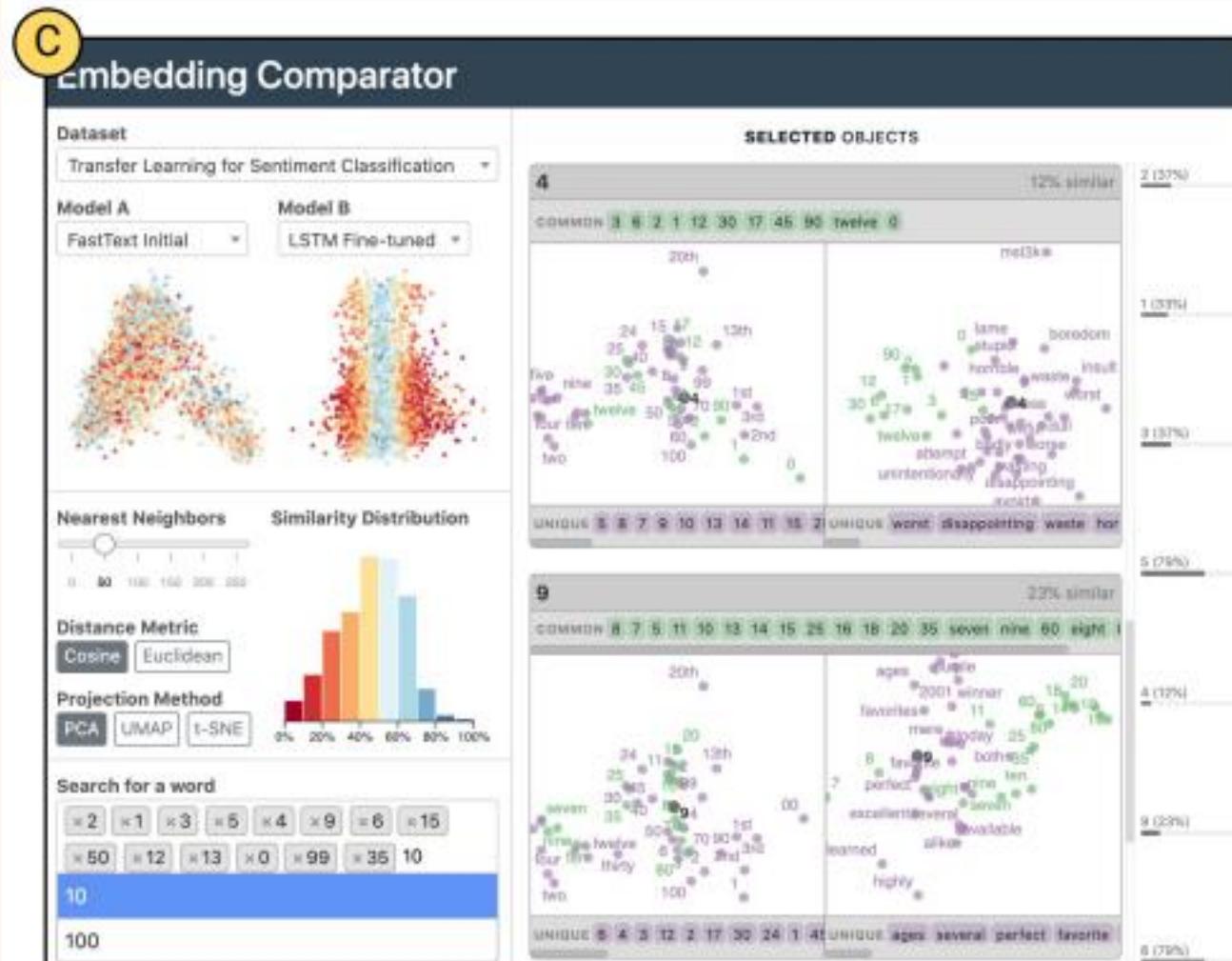
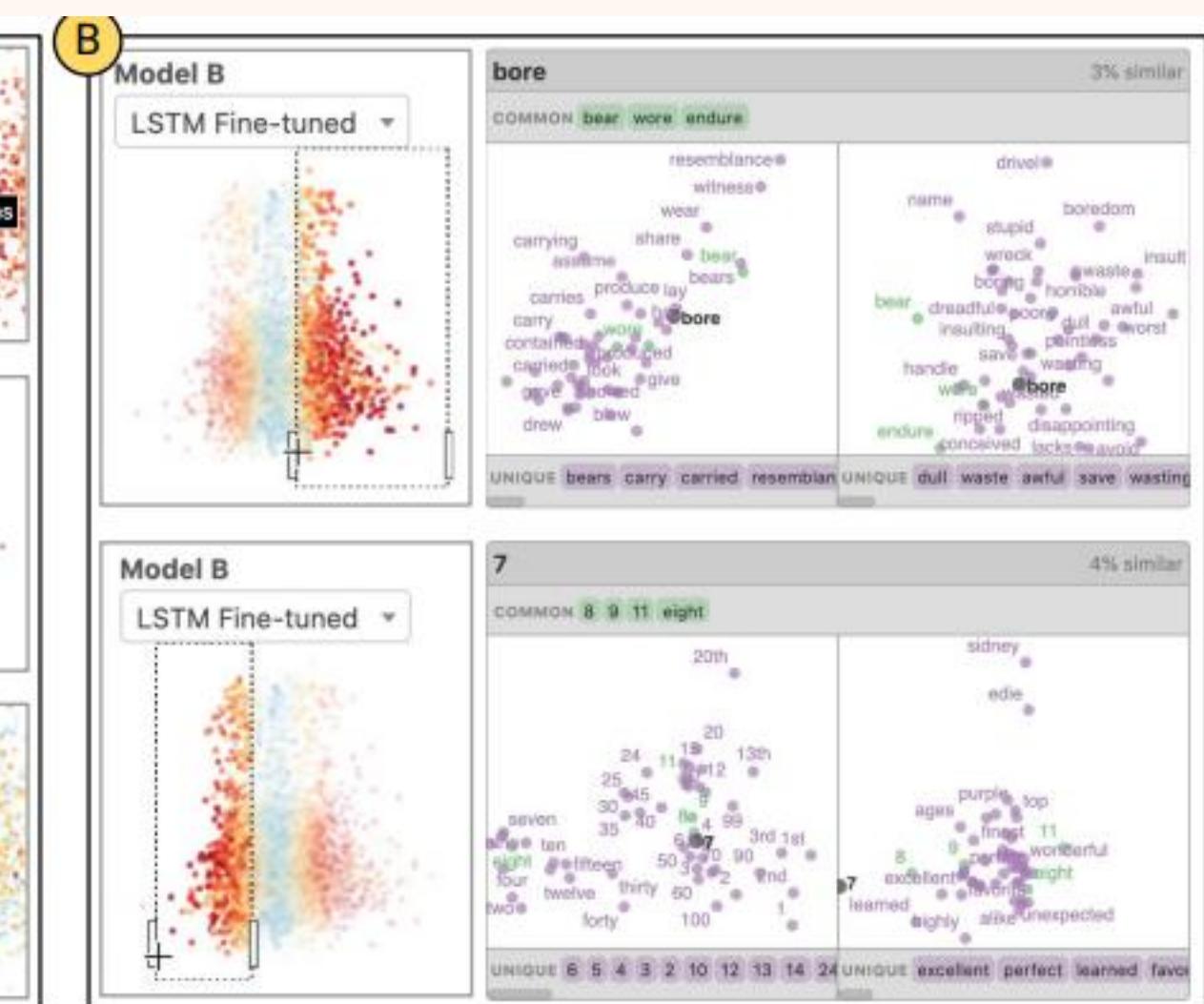
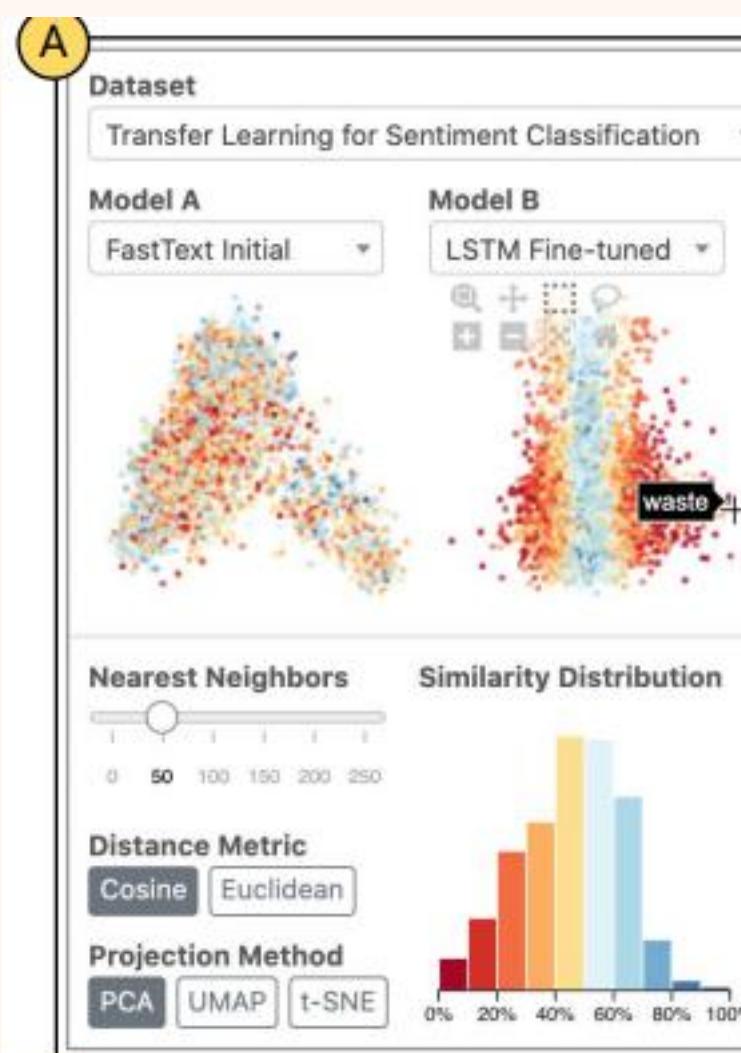


Document Distribution by Topics



Information Sensitivity:







Topics Detection and Modeling

- Ontology Learning/Evaluation
 - Ontology Extension
 - Multi-topics (labels) Text clustering (classification)



Similar Content Recommendation

- Existing and External related Content



Suggestion of Relevant Content

- Google search results
 - Wikimedia Projects
 - ResearchGate



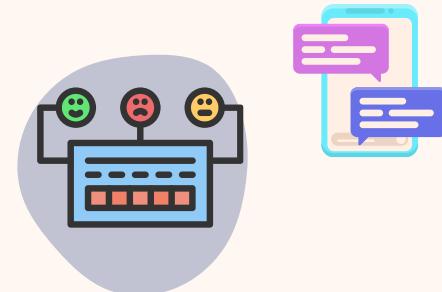
Semantic and Search

- Semantic search and understanding
- Intelligent Document finder



Language Detection and translation

- Language detection
- Neural Machine Translation
- Content Explanation



Content Sentiment Analysis

- Sentiment analysis
- in an emoji format
- NLP-quote-maker

Information Sensitivity: General\External

http://localhost:8501

Choices

Sentiment

Sentiment Analysis Emoji App

Sentiment Analysis

Everyone ❤️ OpenEdu.ch

Enter Your Text

Type Here

Analyze

Made with Streamlit



Moderation Support

- URL validation
- License Check
- Euphemism detection
- Content moderation



AI-based Autocomplete

- Forms Automation and Filters
- Discovery
- Giving Suggestions (Description)



Deduplication

- Similarity Indicator
- Duplicates Analysis
- Documents Comparator

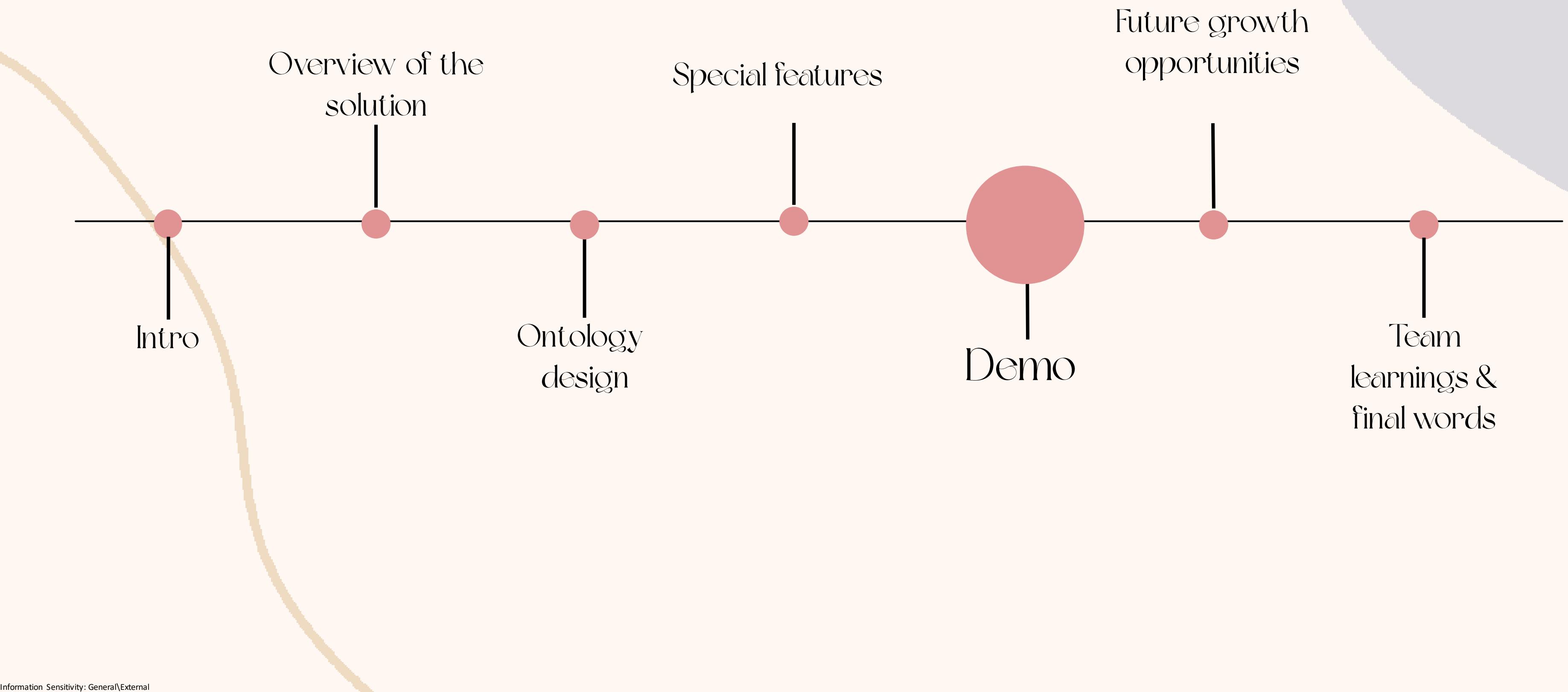
“

Quotes Generator

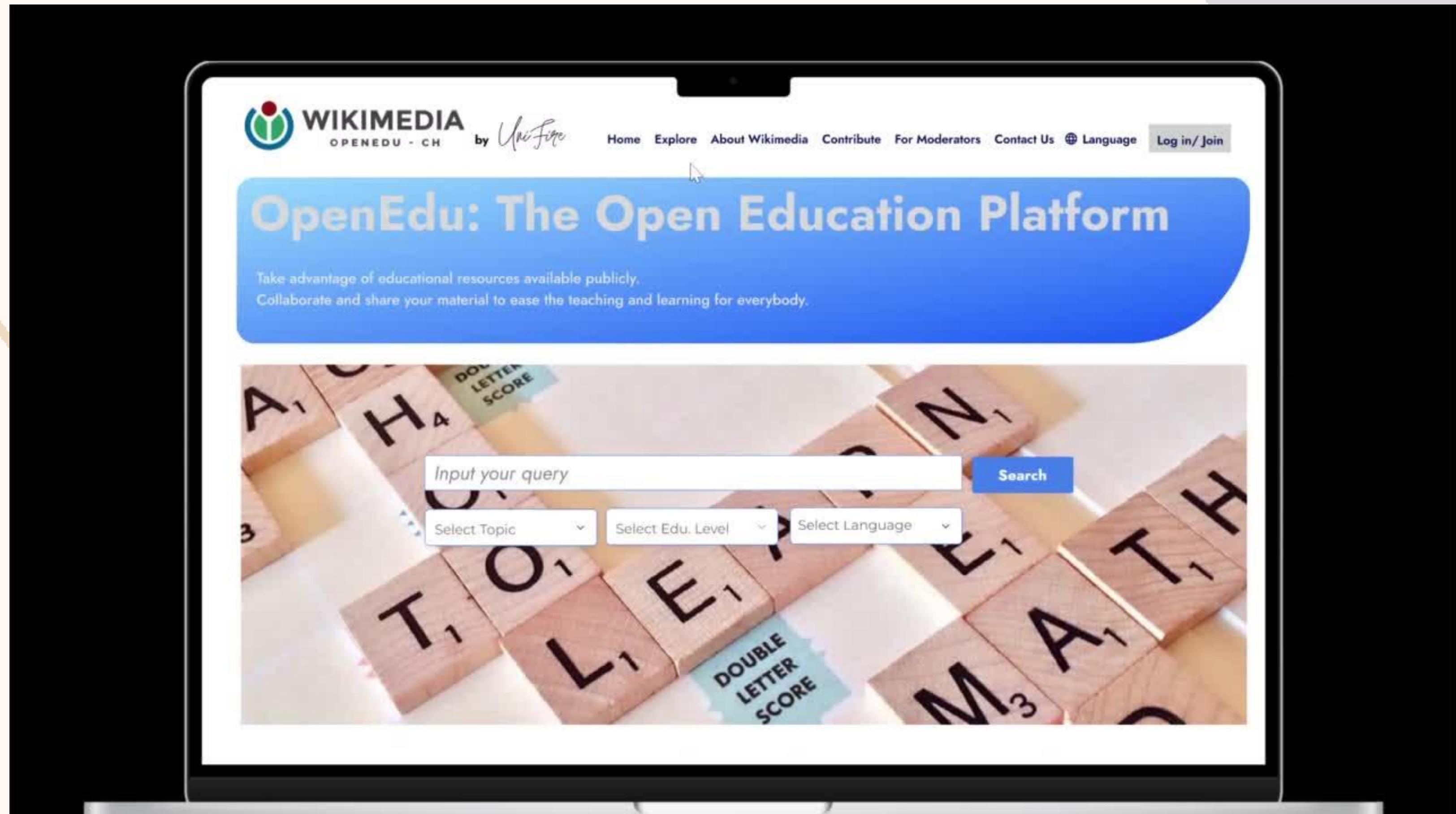
- Quotes maker
- Quotes to Images

”

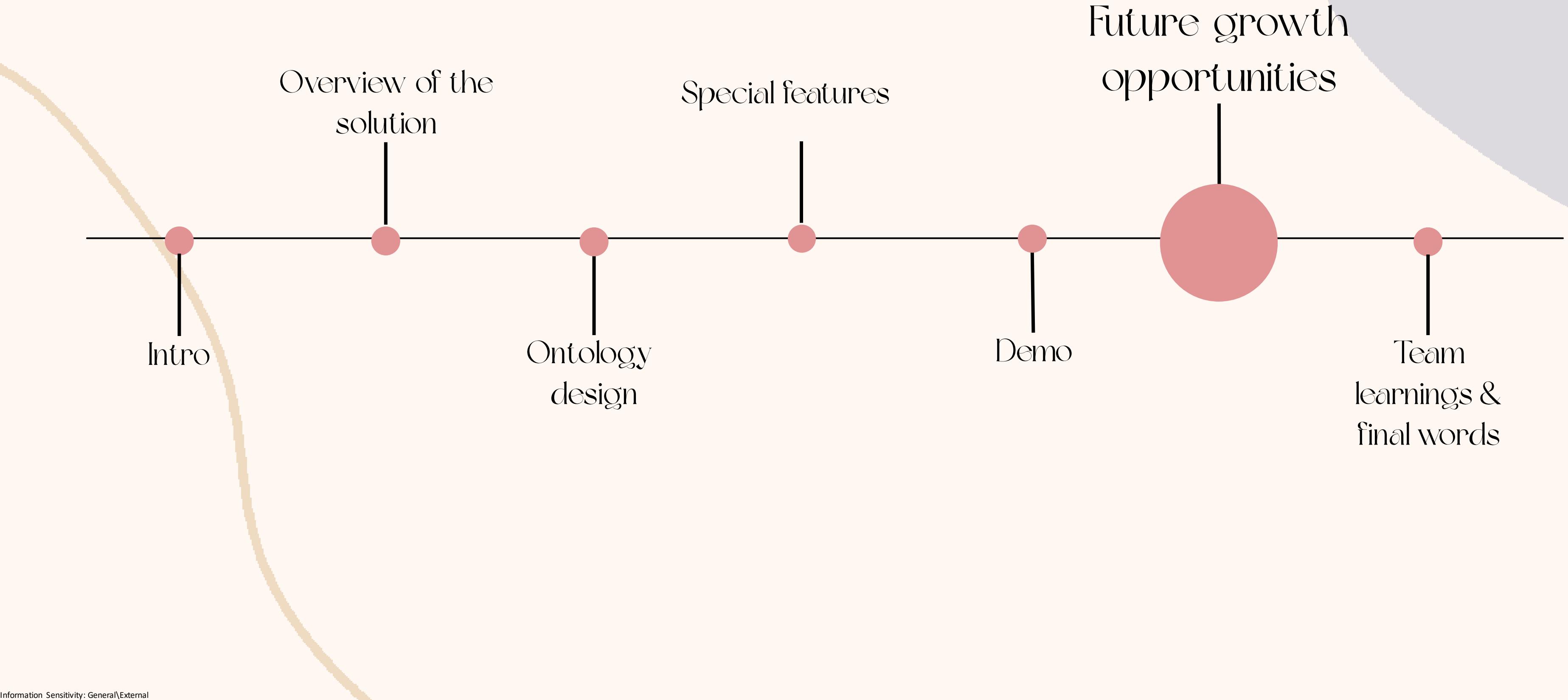
Timeline



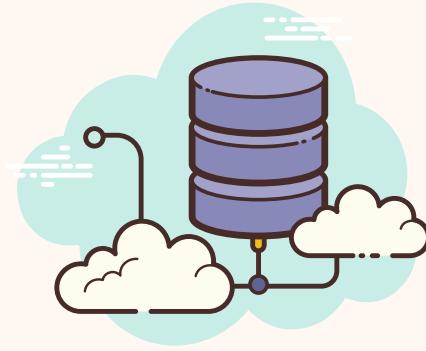
Demo Time



Timeline

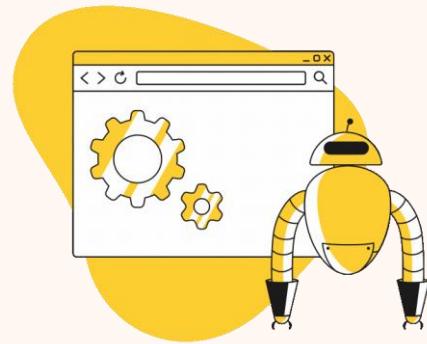


Future growth opportunities



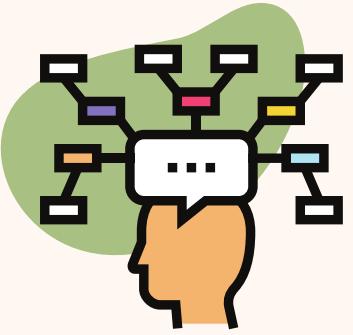
Data Architecture

- Database schema
- Microservices,
- Backend development



NLP

- User-based recommender system



Ontology Extension

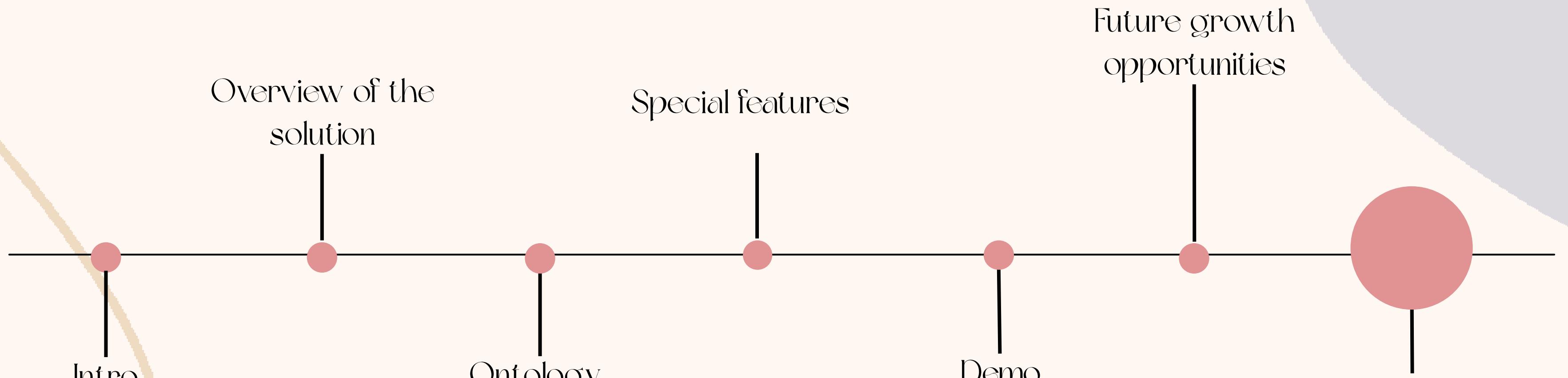
- Recommender-based Ontology
 - learning path
 - recommendation
 - rating
 - comments



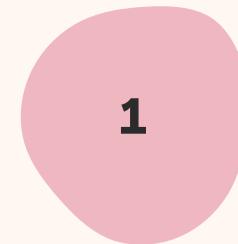
A\B test

- Experiments for statistical analysis
- Keeping track of our deployed features for continuous and refined evaluation

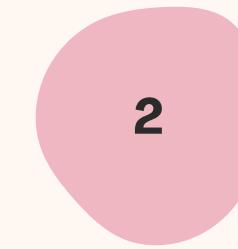
Timeline



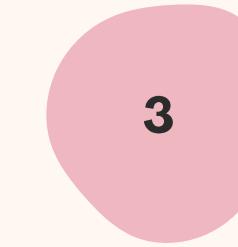
Obstacles



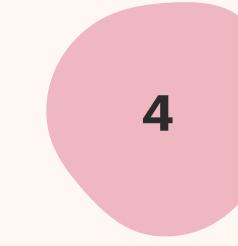
Extensive research of novel areas for all team members



Scoping the project and stating the requirements



Lack of UI/UX design skills



Restricted time + Other commitments
VS
The high amount of ideas/insights

Teamwork is the secret that makes common people achieve uncommon results

- Ifeanyi Enoch Onuoha

"Talent wins games but teamwork and intelligence wins championships".

- Micheal Jordan

Alone, we can do so little; together, we can do so much.

- Helen Keller

Solutions

1

Experiment, iterate and build the product on top of that



2

Roadmap and goal definition
Refinement of requirements with the PO

3

Courses + Mentoring session with UX/UI designers

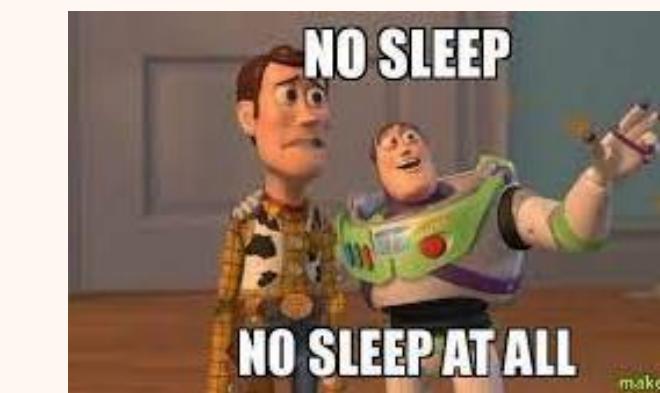
Why UX research is important



It really is!

4

Do our best to accomplish as much as possible
Sleepless nights are included!



5

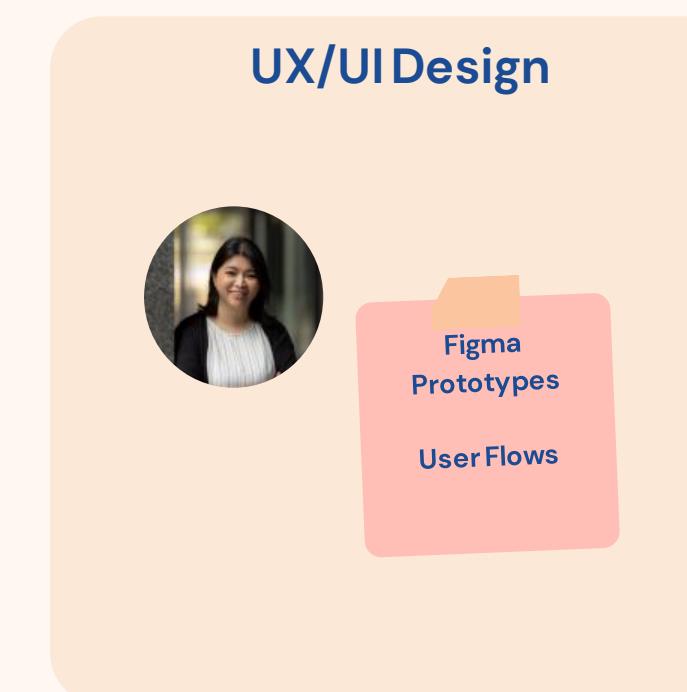
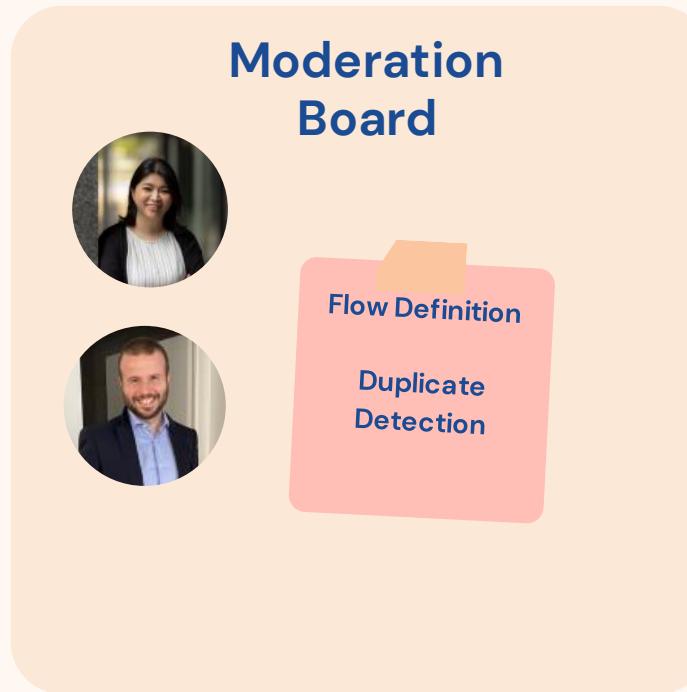
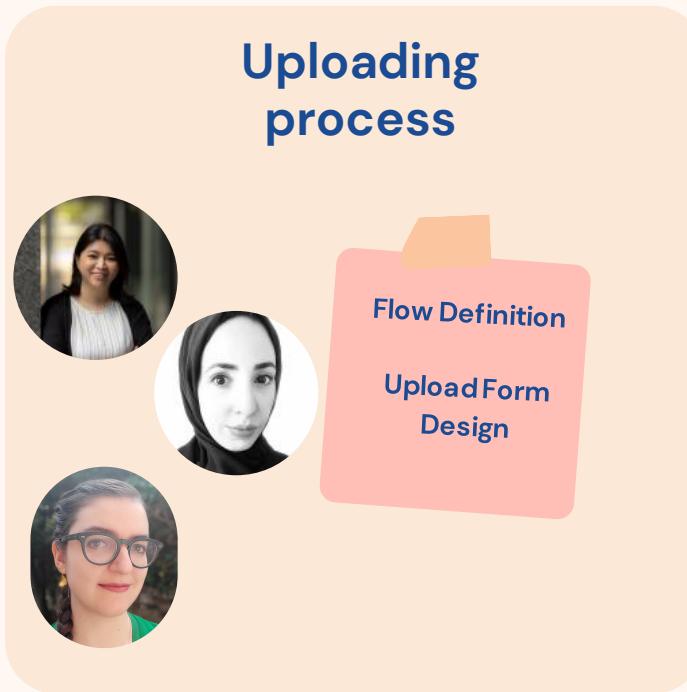
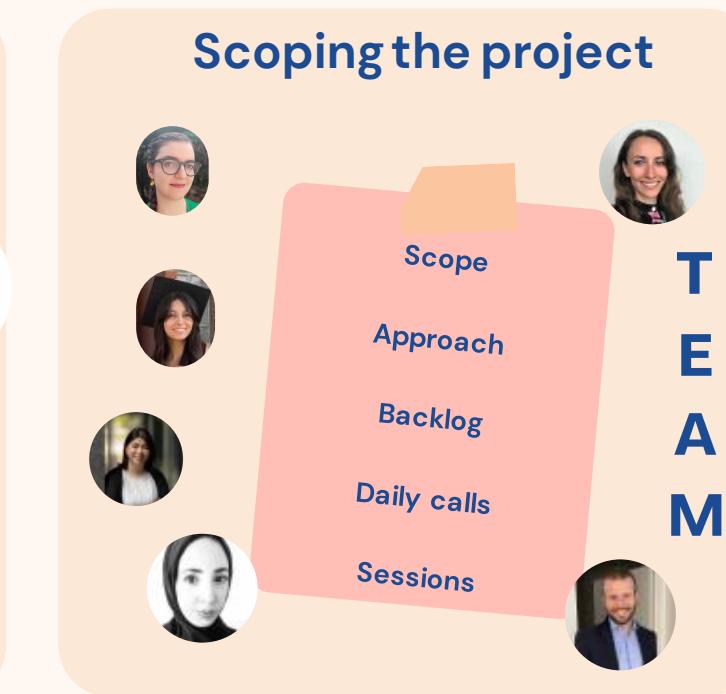
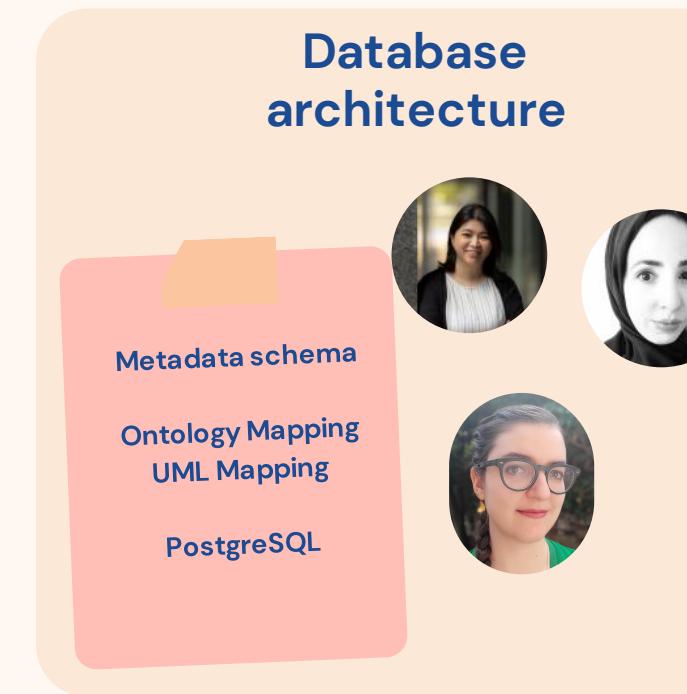
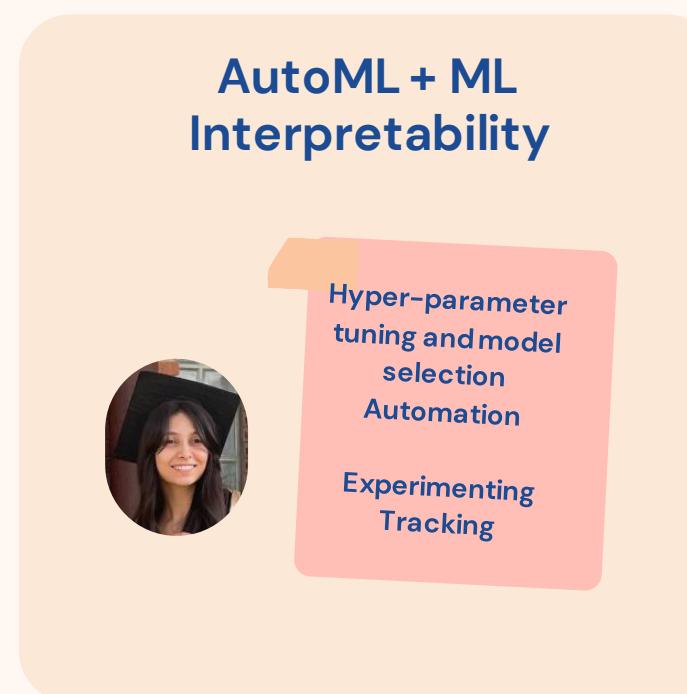
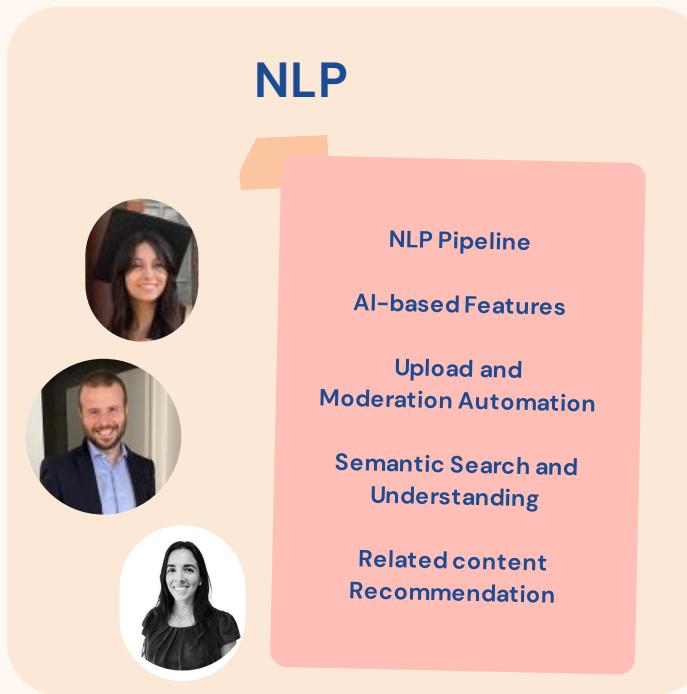
Positive team spirit and dedication to collaborative and unified goal.

6

Constant Feedback and appreciation!



Teamwork!



UniFire

EMAILS

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marco.pistis.13@ucl.ac.uk

sonia.vigolo@gmail.com

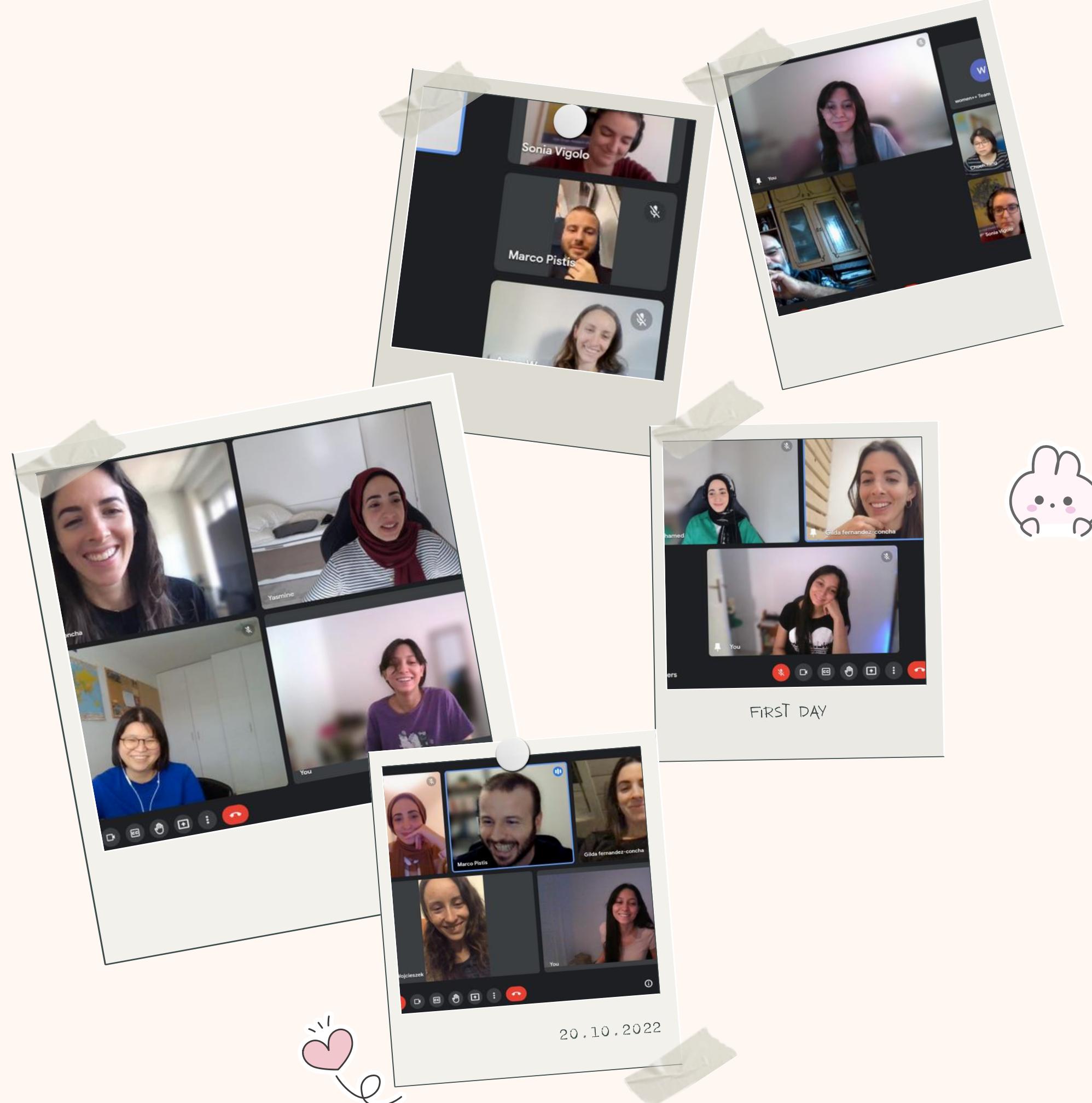
yasmine.mohamed@stud.hslu.ch

awojciesz@gmail.com

gildafernandezconcha@gmail.com

GITHUB

/WomenPlusPlus/deploy-impact-22-openedu-e



Time for questions!

and soon the Apéro! :)

