



Ausna: Project Statement (B2B)

The Problem - What is broken?

WHO - Outline our audience.

Who are they and what do they lack? What is the industry to address?



This product is designed for individuals and organizations in information industry who need to efficiently and accurately work with unstructured files and databases —specifically those seeking an easy-to-use solution with no development costs.

WHAT - What is the problem to solve?

Find evidence to define the current state and reasoning why is that a problem!



Problem Statement:

Most organizations, particularly those managing unstructured data (e.g., text, images, videos, bookmarks...), face significant challenges in organizing, retrieving, and reusing data effectively. Traditional file management systems are ill-suited to modern demands, leading to substantial time and financial losses due to retrieval inefficiencies, data duplication and loss, fact-checking, employee training, and integration with advanced workflows such as those powered by large language models (LLMs). These limitations hinder productivity, increase operational costs, and impede innovation.

With limited learning and development budgets, many see no need to adopt specialized AI databases like Pinecone. Meanwhile, existing intuitive solutions only support a limited number of document formats and offer low accuracy.

research question:

"How might we create a intuitive, affordable, and reliable product or service that helps organizations work efficiently, accurately, and thoroughly with their data without requiring learning and development costs?"

WHEN - What is the timeframe?

Now? In 5 Years? In 10 Years? Answer with reasoning!



Data efficiency has been a long-standing issue. In the early days, physical files required tremendous effort to organize and retrieve. Computers later speed up this process but didn't improve the workflow. Modern data structures like MongoDB, Neo4j, and vector databases enable smart storage and retrieval, yet they failed to adapt with unstructured data. While transformer models like LLMs gave unstructured data new possibilities, they introduced problems with data abuse and hallucination. Now, Ausna aims to make all kinds of data smart, relevant, and extendable.

Goal States



Ausna aims to reduce workflow time for organizing, searching, retrieving, and learning from data by at least 80%. It provides out-of-the-box functionality for managing, collecting from, learning from, and creating from unstructured data—doing so more efficiently and accurately than humans through both automatic and manual fact-checking features.

Scale



Our solution will operate at both individual and enterprise levels, aiming to become the standard protocols to store data in the industries works heavily with mix-types of data.

Passion and Significance

WHY - Why do you (we) care?

Why would you love to solve the problem, or why would you believe that we should solve the problem?



While generative AI is improving rapidly, most individuals and organizations struggle to integrate their existing data into modern workflows. This discourages industries from building upon their own intellectual property, as they often resort to consulting general LLMs to speed up content creation.

We believe humanity prospers when people are encouraged to learn and build their knowledge. Ausna integrates advanced technology to enhance knowledge processing workflows while preventing data abuse and hallucination, helping humanity stay grounded amid ever-advancing technologies.

WHY - Why does it matter to the industry?

How would solving the problem change the industry or society at large? Describe the broader impact.



1. It would enable accurate, efficient, and thorough data retrieval for all kinds of data, helping organizations & individuals to scale their efficiency significantly, making smart database affordable and accessible to industries that have fall behind of AI advancement.
2. It would encourages individuals to write and create with almost no learning cost by adopting the solution, as their ability to contribute, reuse, and referencing knowledge would grow as AI grow.
3. It would increase AI's ability to reason and understand special context on complex problem without abusing copyrights and integrity.
4. It would created the most fair, decentralized, and unbiased public knowledge base in the world, supporting truth seeking culture and knowledge building in all informational industries.

Gap Analysis

Justify the Gap with Sources

How do the solutions solve the problem? What is left to improve in order to solve the problem? Does the problem need a new solution?



PKM: Logseq, Obsidian, Tana, AnyType, Notion

Pros: combine text, object, link, media, and database with full control.

Cons: lack of database functions and management ability with high learning and organizing cost.

Out-of-box LLM based information retrieval: NotebookLM, Claude...:

Pros: support basic file uploading that is simple to use

Cons: poor extendability with huge limits on database functions and performance.

Smart Database: Pinecone, Databricks, GraphRAG, KHOJ...

Pros: enterprise level smart database system with high customizability and compatibility to different needs

Cons: costly to implement, learn, and develop, presenting limitations on complex and unstructured data.

Industry specific tools: Harvey(law), Jenny AI(research)...

Pros: could be easily implement to achieve optimized workflow for certain tasks.

Cons: huge limitation on functionality and extendability, relies on fine-tuning with industry specific pipeline to perform well.

Solution Analysis

Obstacles



1. Competitions and copying

The trend of context-based AI would led to many competitions in the future.

2. Storage and computational power.

Such a powerful solution relies on $O(n)$ storage and $O(n^2)$ computational power.

3. Data efficiency

After business grow, it is crucial to optimize each process to reduce call on LLM to provide more affordable price for B2C products.

Constraints



1. The product need to be profitable before investment
2. The product and service must be accessible and adaptable by most industries.
3. The product must be affordable and simple to implement

Tractability Analysis

Tractability

How is the problem can be solved by us? Justify given the resources, time, and other factors.



1. **Vision**

Ausna is an ambitious project that never stop at smart database. It aims to build the largest and fairest public knowledge base that can let knowledges of humanity to prosper and put end for manipulation on media .

2. **User-centered**

Ausna is user-centered, meaning that we not only care about efficiency and accuracy, but feelings, dynamics, ethics, and sustainability of our user experiences.

3. **Algorithm**

Ausna has a ground breaking algorithm by inventing the Ausna COVR protocol (Conceptual Object-Oriented Vectorized Knowledge with Reference).

4. **Public Knowledge Base**

Ausna have great resources of database to begin with, building the public knowledge base that can help building private knowledge base in each industries.

Possible Deliverable

Briefly describe the possible solution and the deliverable.



The final product is consist of following:

1. Ausna's Knowledge Base System (AKBS)

Manage changes in database, responsible for file management, document processing, knowledge building, and knowledge retrieving.

2. Ausna Apps

Apps that provides function on the database. We will begin with **Ausna Note & Ausna Workspace** that allows users to manage data, collect data, assisted writing, generate reports, using AI agents, and create automations. **Ausna Note** would allows community to develop plugins.

3. Ausna Realm

It would be the community of knowledge bases, including hosting public or paid knowledge bases, using unified protocol for concepts and encryptions, provides certificates for intellectual properties collections. Many Ausna apps can also connect to the Ausna Realm in different way.

4. Ausna API & Ausna Dev

Ausna would provide API and Development Doc for different products to integrate **AKBS** into their own system both online and locally. We will provide services to help organization to build customized features.

Roadmaps



01/31/2025, Alpha test

Features (solo dev):

1. AKBS
 - a. Supports single knowledge base per user.
 - b. Auto buildup, retrieve, and reference knowledges
 - c. COVR protocol but not vectorized yet.
2. Ausna Note & Workspace
 - a. Writing to buildup and auto retrieve relevant knowledge
 - b. Generate reports
 - c. Upload PDF & CSV

Business Plan After:

1. Small scale pitch for possible investment, demo with reddit data
2. Find partner & employees
3. Make deals of integrating solution for business through Ausna Dev
4. Seek professor to test performance against GraphRAG.

02/15/2025, Beta test

Features (2-3 people):

1. AKBS
 - a. Vectorized
 - b. Multiple knowledge base with different permissions.
2. Ausna Note & Workspace
 - a. File management
 - b. File collector
 - c. AI Agent
 - d. Payment system
3. Ausna Realm
 - a. Public database filling with ChatGPT, Reddit, and Wikipedia

b. Soundness algorithm

Business Plan After:

1. Participating larger and formal pitch with partner
2. Seek investment for hiring professional development team.
3. Seeking cooperation with database (research & library).
4. Seek more enterprise cooperation
5. Free 7 days \$20 per workspace test.
6. Heavy campaign on social media about data abuse issues with traditional AI

03/28/2025, Public Copy

Features (5-7 people hired):

AKBS:

1. Rebuild system on professional level.
2. Certificate on intellectual properties
3. Allow importing different types of files (images, web pages, graph, prints, sketch, videos)

Ausna Note & Workspace:

1. Professional AI Agent pipeline (integrating professional model for most situations)
2. Pretty templates for output documents
3. Rich media report generation.
4. Soundness inspector for researchers and trustworthiness.
5. Ausna App Store

Ausna Realm

1. Public database community with advance filter to hide content.
2. Social media features

Business Plan:

1. Heavy promotions on social media about humanity knowledge
2. Seek enterprise cooperation
3. Writing paper on performance.

4. Provide IP certificate.
5. Publish Paper on performance.