

Alexandria Data Center

NEO-ALEXANDRIA LIBRARY DATA CENTER

PartPrime Inc.

Content

Overview

Service Flow

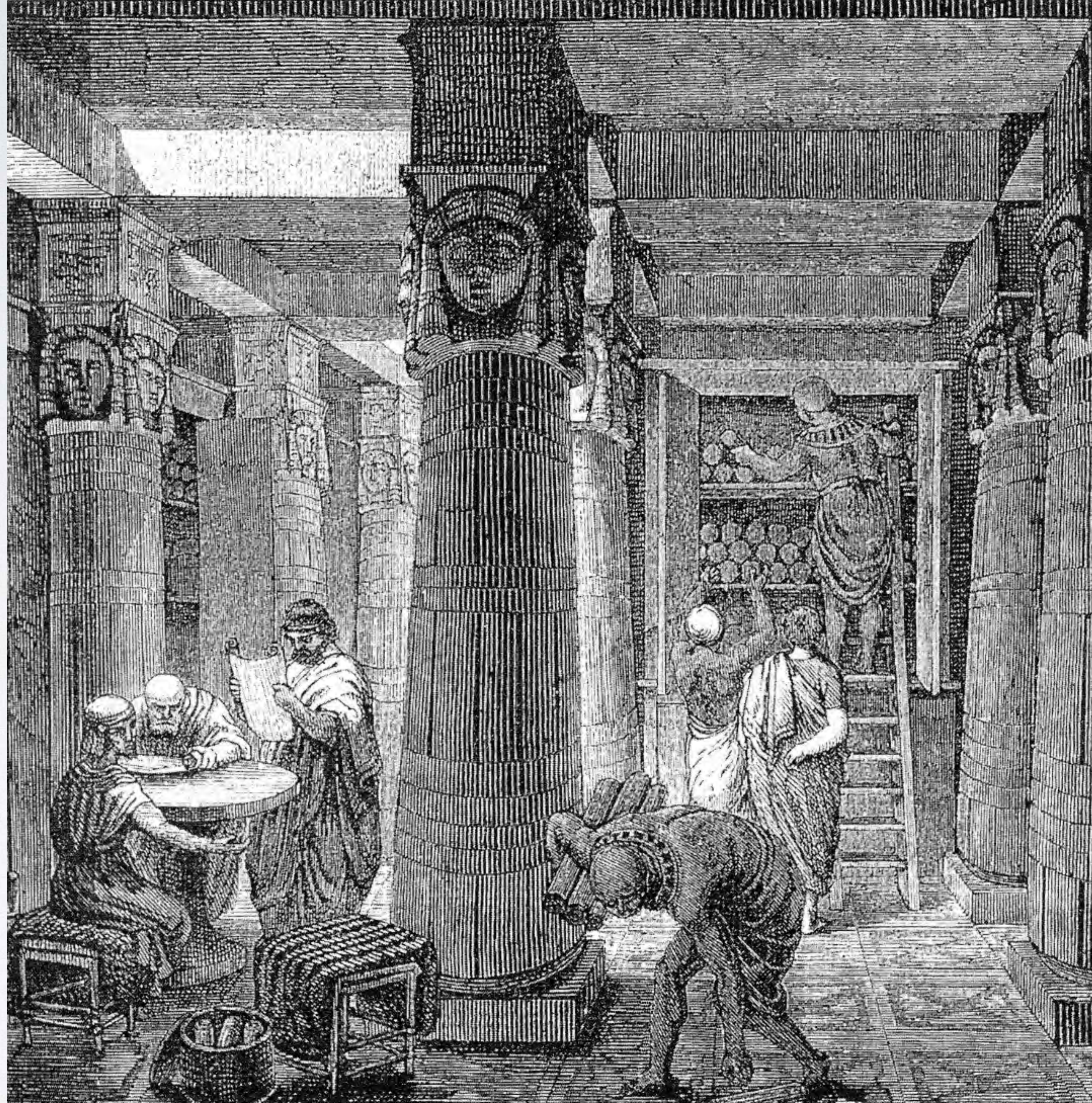
- ✓ Achieve : Load the structured data
- ✓ Assistant : Find your wisdom
- ✓ Curator : Guide your ways

Software Structure

Features

Plans

Schedule



OVERVIEW

Some of the data in the *Neo-Alexandria Library Data Center* is collected & entered manually by humans, and some are automatically collected by the **Data crawler** and automatically sorted & stored.

In the Data crawler, simply enter the URLs and keywords you want to collect.

Achieve saved in this way can be utilized. You can search raw-data with keyword by using basic **search engine**.

However, even those who are new to the field or not, can utilize this data more diversely and effectively with **Alexandria AI services**.

Alexandria Curator guides you through the path of knowledge you need. It draw a roadmap of knowledge about your major field you want to study. It presents the curriculum of your major. And it pushes the knowledge you need for it at the right time.

Alexandria Assistant goes beyond basic keyword search, and is an AI assistant that understands and deduces the intent and context of text. It's a smart Assistant that tells you the answers to what I asked, along with the supporting documents and the location in the document.

Alexandria Publisher automatically makes recommendations and creations of a reference or a simple guidebook on the subject you are looking for, making it easy to create.



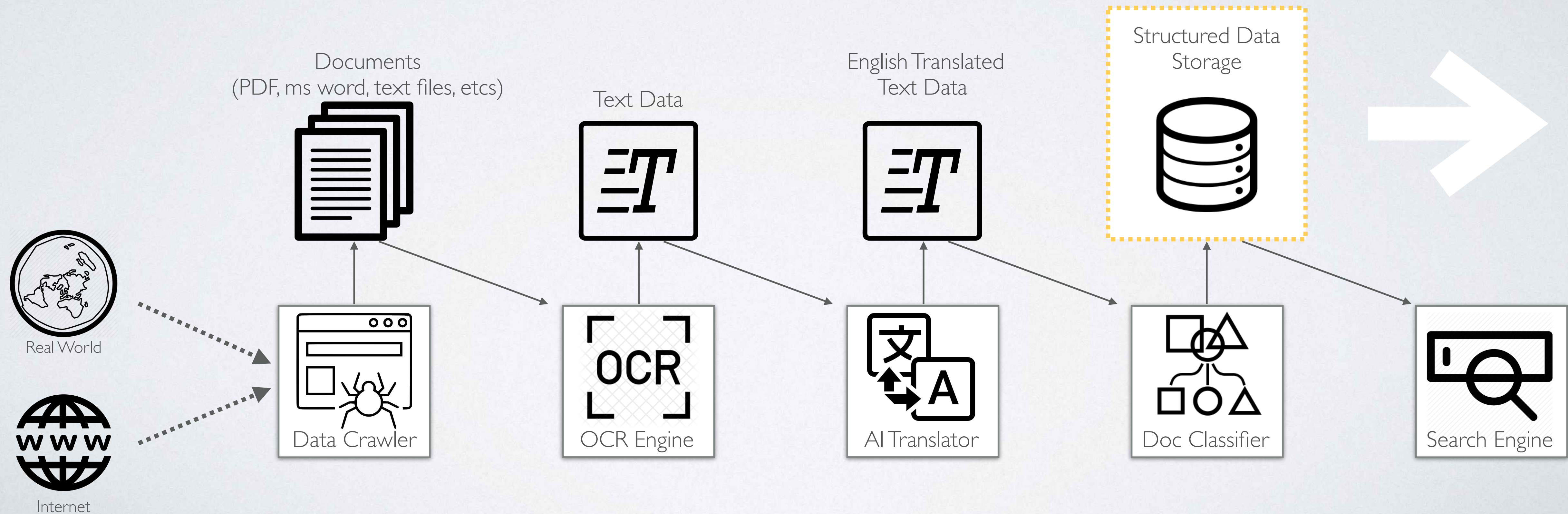
Alexandria Data Center

SERVICE FLOW

Achieve : Load the structured data

In order to utilize the AI of Neo-Alexandria Library, the collected files & data must be processed into text data. Also, meta-data must be created and loaded.

- 1** Paper books in the real world are manually collected and data and files in the Internet space are automatically collected and stored.
- 2** Among the collected data and files, PDF and image documents are converted to text data.
- 3** After converted to text data, it does machine-translate in English.
- 4** Text data is automatically classified according to our own method learned by AI, and meta data is generated and used for search.



SERVICE FLOW

Assistant : Find your wisdom

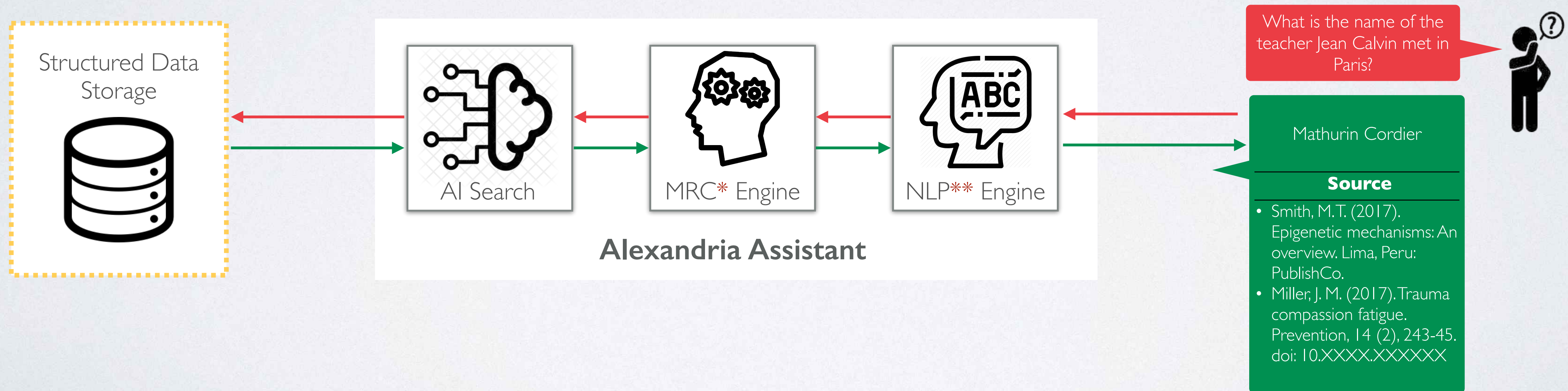
Alexandria Assistant goes beyond basic keyword search, and is an AI assistant that understands and deduces the intent and context of text. It's a smart Assistant that tells you the answers to what I asked, along with the supporting documents and the location in the document.

1 User asks Alexandria Assistant what they want to know

2 Find documents by performing an exact search based on classified and stored meta data

3 AI-based search narrows down the range of documents you want more accurately

4 NLP Engine and MRC Engine find and answer supporting documents with answers



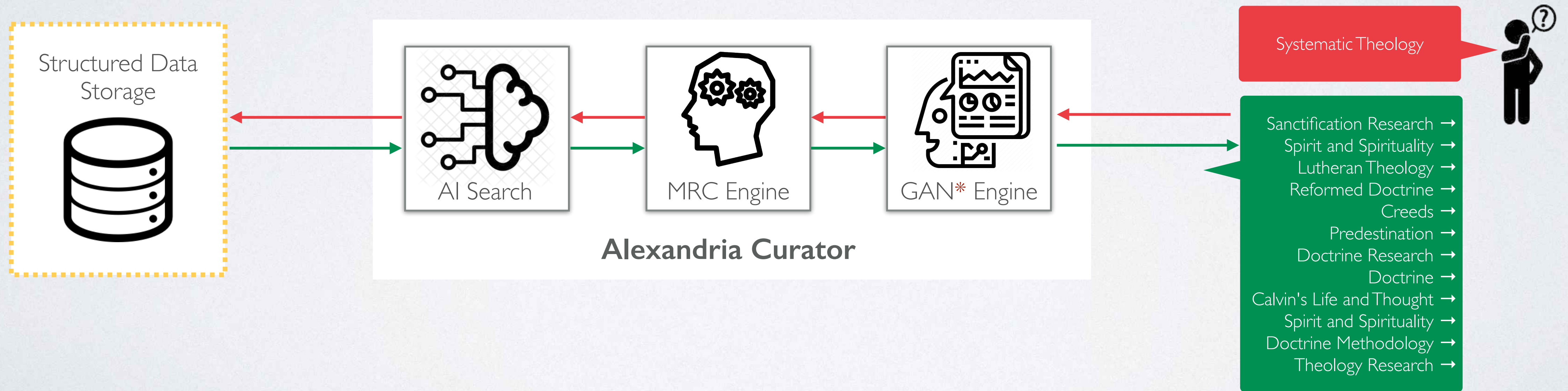
***MRC** : Machine Reading Comprehension
****NLP** : Natural Language Processing

SERVICE FLOW

Curator : Guide your ways

Alexandria Curator guides you through the path of knowledge you need. It draw a roadmap of knowledge about your major field you want to study. It presents the curriculum of your major. And it pushes the knowledge you need for it at the right time.

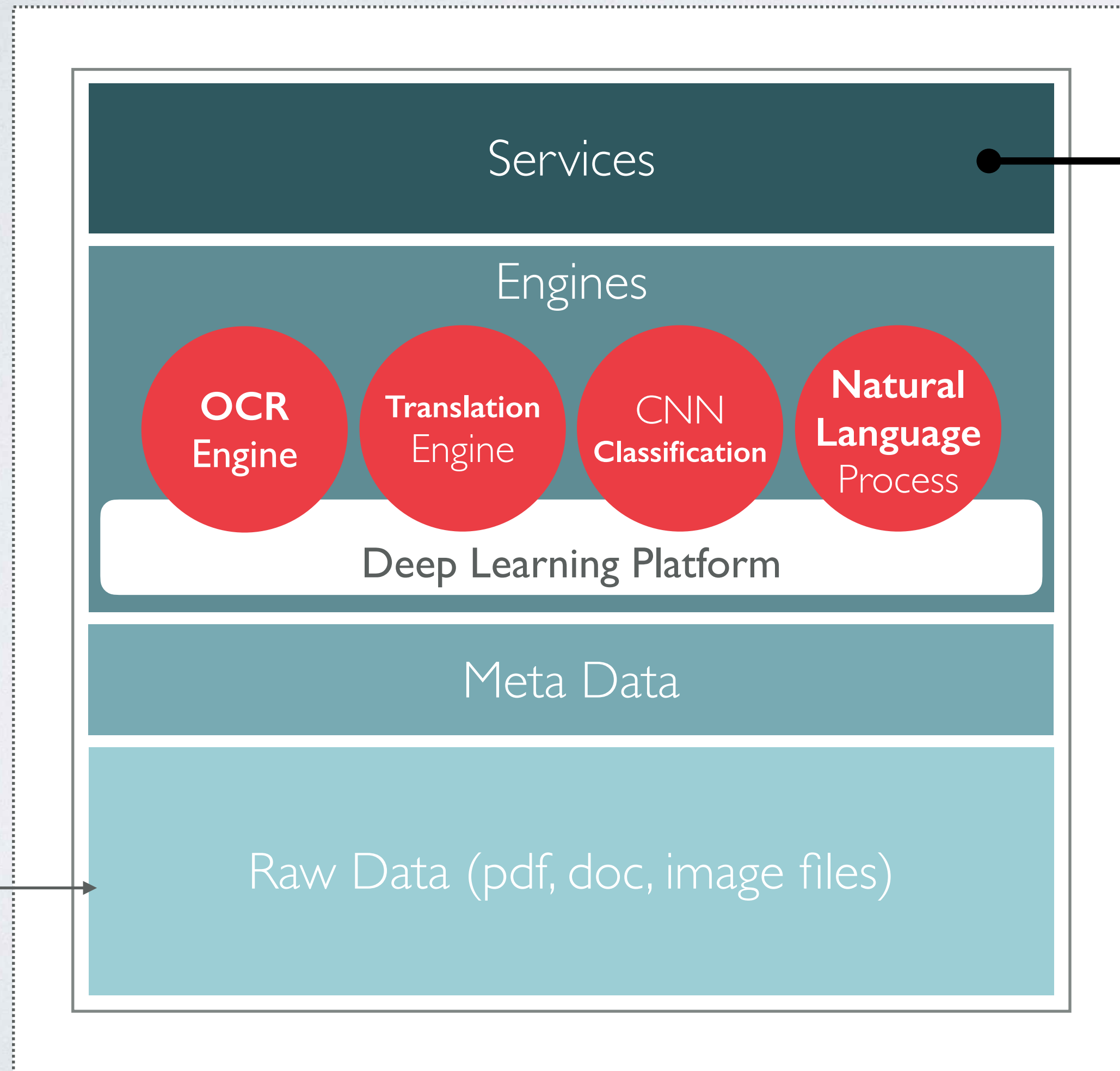
- 1 User enters desired subject
- 2 Exact search is performed based on classified and stored meta data to find related documents
- 3 Create a knowledge roadmap checklist based on the documents found and the generated ruleset
- 4 AI checks the checklist items, creates a knowledge roadmap and shows it to the user



*GAN : Generative Adversarial Networks

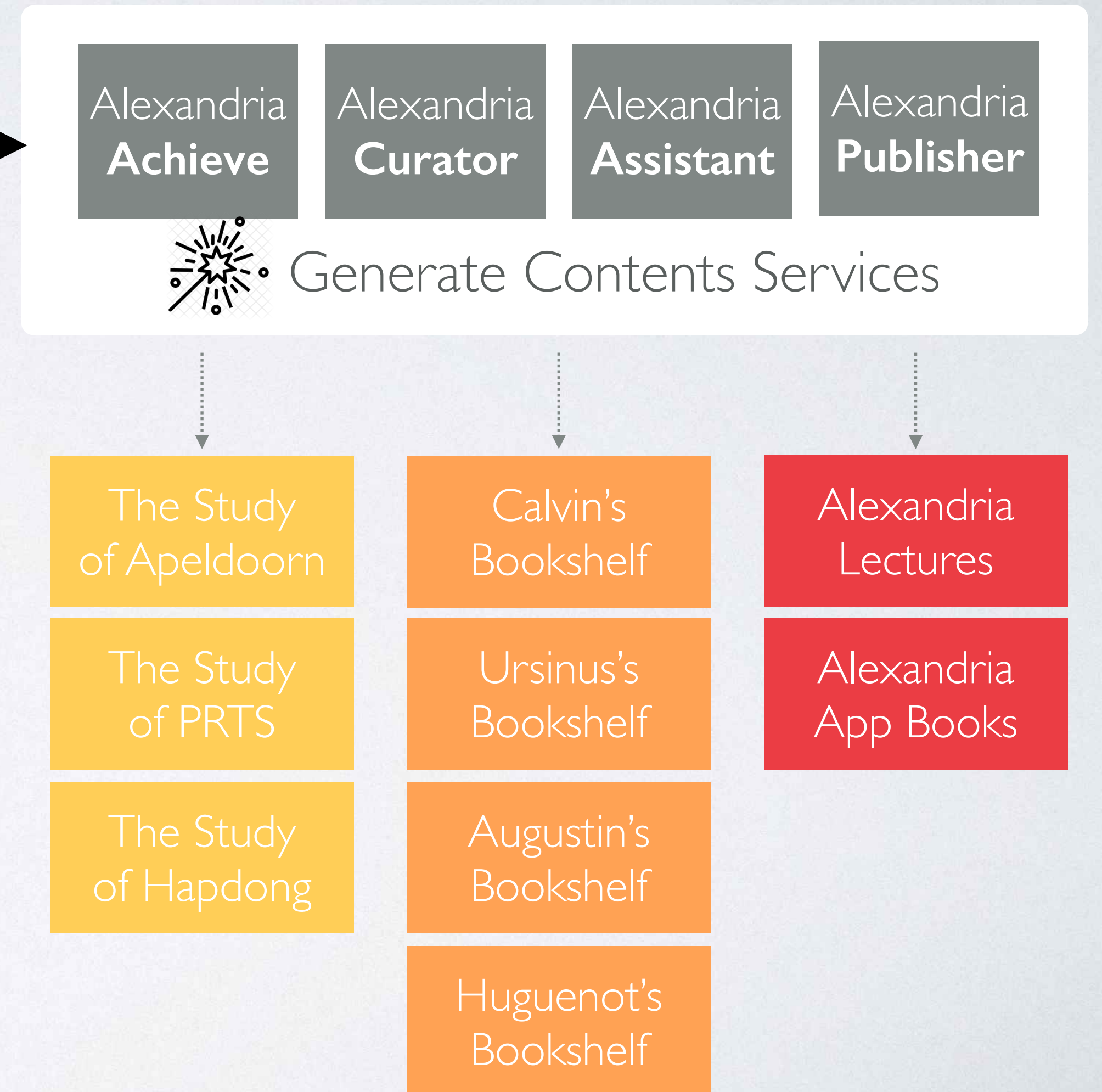
SOFTWARE STRUCTURE

Backend Area in PartPrime

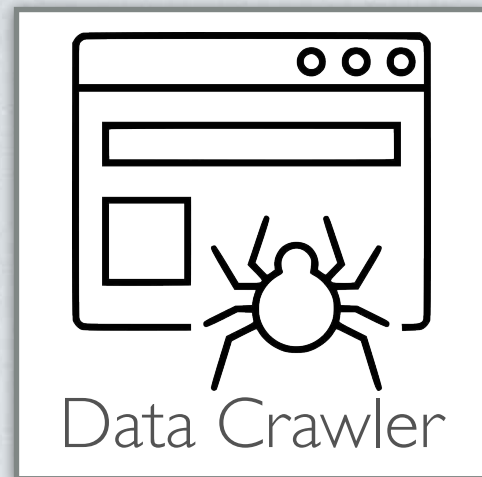


Services Area

Development **PC / Web / App** Services



FEATURES



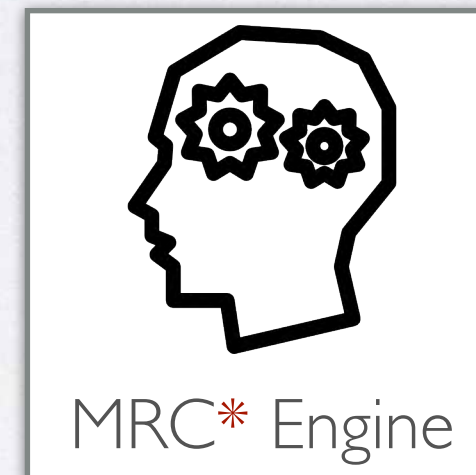
- Python-based PartPrime's solution
- Crawl through URL list & keyword list input



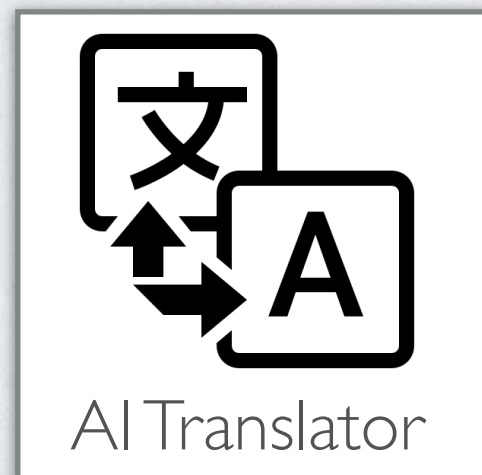
- So far, using ElasticSearch open-source based



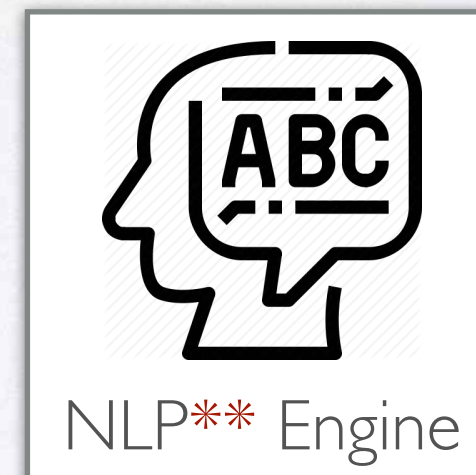
- Tesseract OCR4 based (DeepLearning based) own solution
- Customization for recognition of I6C & I7C's documents
- Add specified training data



- Tensorflow, ALBERT based PartPrime's solution
- Additional training data based on I6c and I7c documents
- F1 Score : 88%
- EM Score : 81%



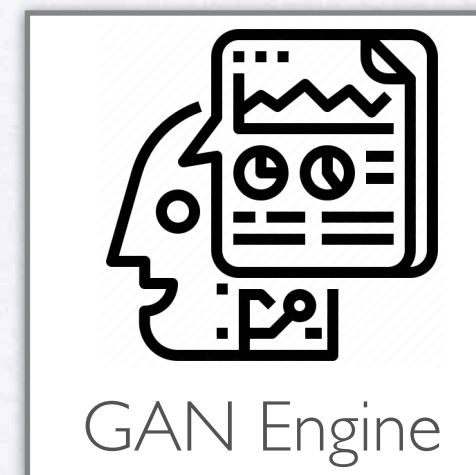
- So far, using google translate api open-source based
- Under developing DeepLearning based solution and training data



- So far, using Mecab open-source based



- Python-based PartPrime's solution
- Additional training data based on I6c and I7c documents
- AI Accuracy : average 89%



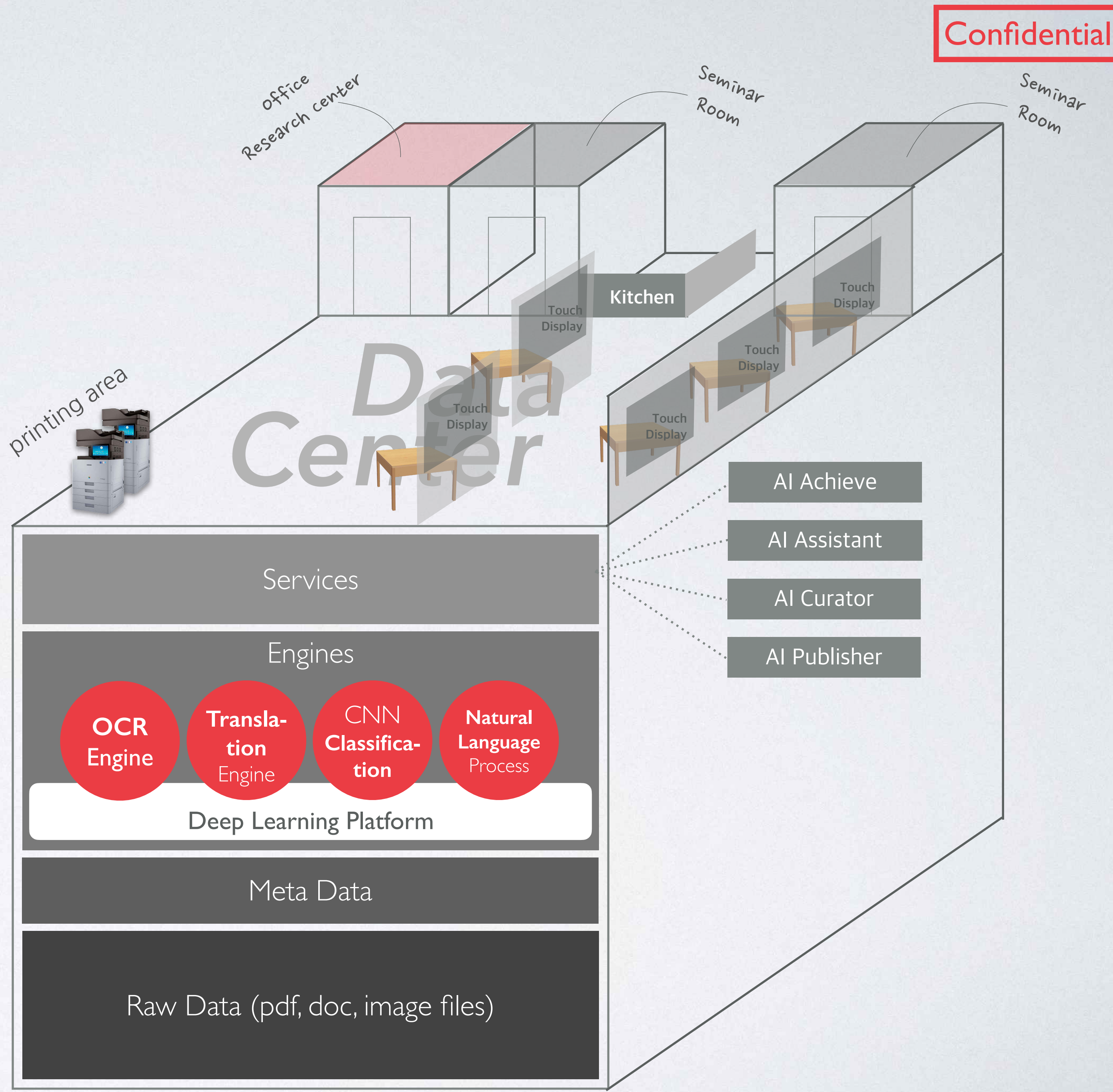
- Python-based PartPrime's solution
- Additional training data based on I6c and I7c documents
- Generate curriculum & roadmap for each sector, including ruleset engine

PLANS

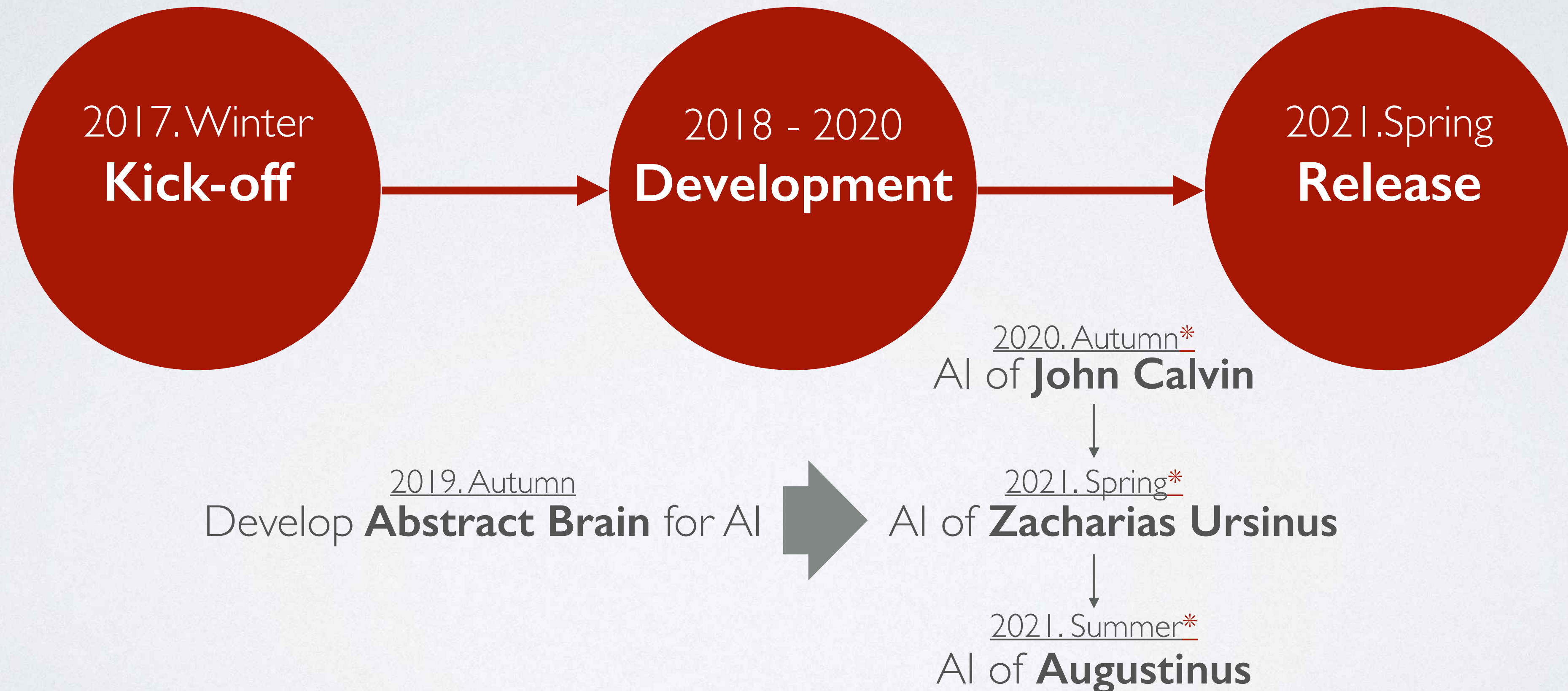
Cafeteria with AI

Cyber College with AI

AI Digital Library



SCHEDULE



***Unfortunately, this is the delayed schedule compare with the last document that I had shared.**

Alexandria Data Center
THANK YOU