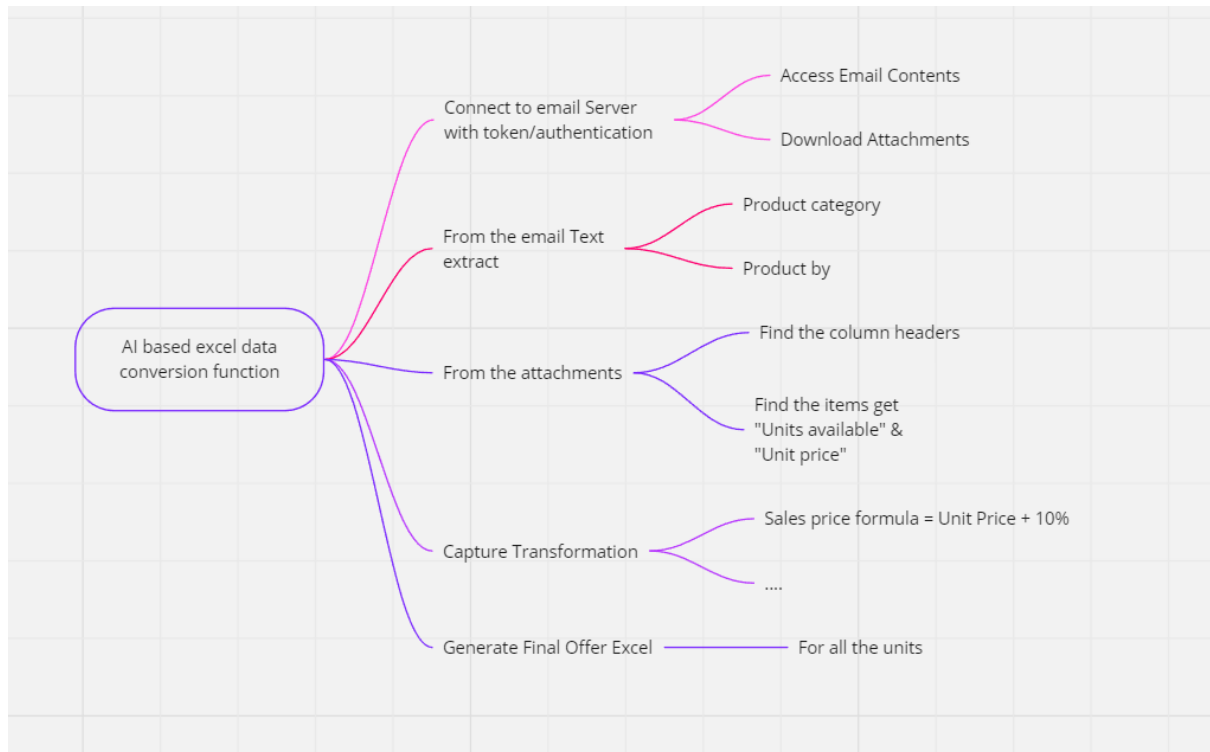
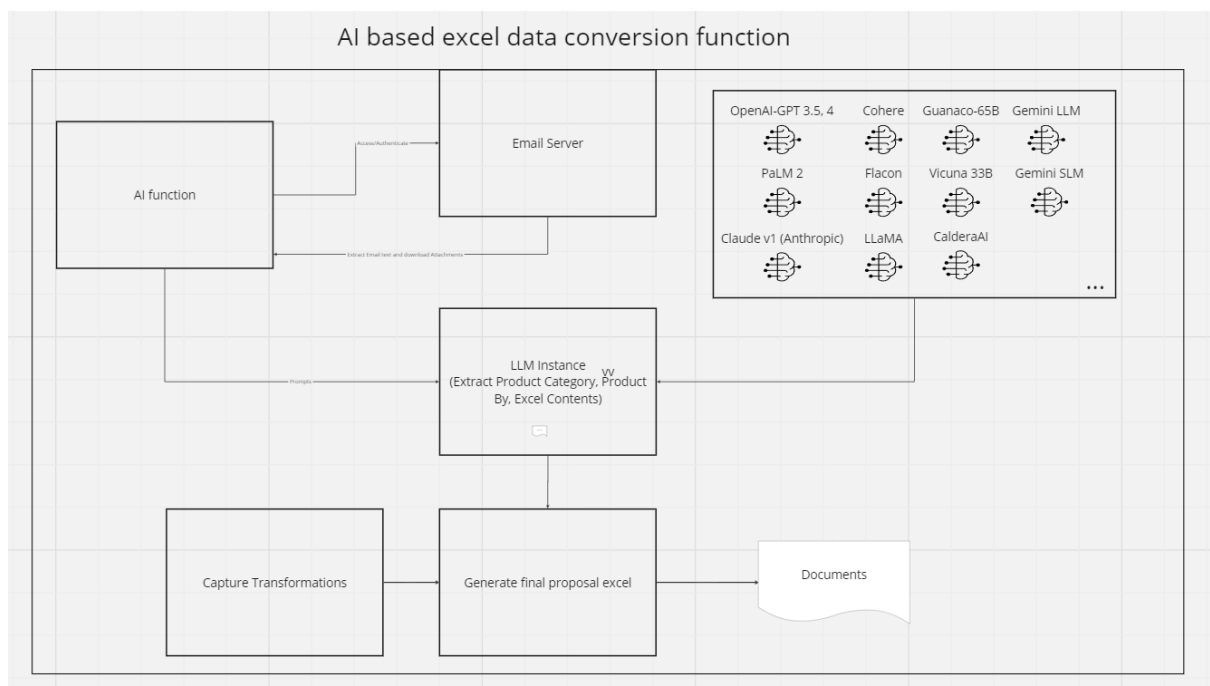


Overall requirements



Overall Design



Module 1: AI function

A program that will get the user emails – userid and password, store them securely in memory (as MD5 hash) or local storage for a specified time. Periodically accesses the email server or subscribes

to the email server for new emails. As the email arrives this module gets notified. And triggers the actions for the following:

- Read the email content and create a “content” object.
- Download the email attachment and look for excel or csv files. Stores them locally in a secured location or in memory for further project. Say this is “items” object.

Module 2: LLM Instance

A program that access LLM APIs (e.g.: like Open AIs - chat GPT) and do the following:

- Send the content object with prompts to extract “Product category: Skincare Product by: Decleor”.
- Send the items object with prompts to get the row header and from which row the values are available.

Based on the above two information the needed data frames and intended product categories are derived.

Module 3: Capture Transformations

A program that will get the user rules for data transformation. For example, how the output excel should be formatted. And how the calculations should be made.

Module 4: Proposal generator

A program that will generate or update the final excel with transformations applied as captured in module 3 on the data frames derived in module 2.

Risk in this solution:

For diversified set of email content and excel how effectively Module 2 is going to yield results needs to be evaluated. Right prompts and categorization of data is needed to handle the same.

Runtime Environment:

During prototype phase, all 4 modules will be standalone programs (either written in java or python) based on libraries that look feasible. Cost of those libraries will be shared at the end of prototype phase. Every effort will be made to use opensource libraries that are proven and scalable.

Runtime Cost:

In further phases the modules must be deployed on scalable environments either as microservice or vanilla service or a stateless function. If you have any choice of cloud provider we can adapt according to your choice. The cost of cloud provider and the cost of using OpenAI or similar LLM APIs will be your further running expenses. For e.g.: OpenAI cost can be around 25 Pounds per month and cloud infrastructure cost depends on how frequently we want to keep the instances running. That needs to be evaluated. A ballpark of 25 pounds for the same.

If you have any specific requirements for runtime stack, programming languages/libraries, LLM APIs do mention. If not, we can agree upon after the prototype phase.