



CLI

This is the central Hub with what the user interacts with. This is connected to nearly all other parts of the system

Location to folder to analyse

The User is expected to input a path to a ZIPPED file on their device. This module confirms that the project file is zipped and exists

Log-in/ Sign-up

This module is used for signing in or logging into your account. This allows for the user preferences to be loaded into the system.

Consent

This module is used to see if the user is willing to connect to a LLM online for a better analysis or would prefer to stay local.

User Database

This database is used to store the User data and preferences.

Project identifier

This module is used to identify the projects in given is the set path. For example the zip file could contain 0 or several projects. This returns the paths to the root of each project. It also allows us to get an idea of how many projects exists within the folder. (In most cases this is 1 project per folder)

Output (combination of the below)

<p>Resume</p> <p>A resume or resume sections are generated. this focuses on skills showcased in the project.</p>	<p>Portfolio</p> <p>Generates a portfolio item. This focuses on project description and what it is about</p>
<p>Historical account comparison</p> <p>refer to previous projects and items present</p>	
<p>Project ranking</p> <p>Rank Project with previous projects</p>	

Analysis (this happens for each project individually)

<p>File sorting and identification</p> <p>This module identifies the types of files in the project and sorts them into categories. This also adds the files into the database.</p>	<p>Analyse project without RAG model</p> <p>This goes through the files and analyses them based on content and meta data. The analysis is based on programming language and other documents.</p>	<p>Analysis output</p> <p>The output is in a text and json format. the json format is stored in the database</p>
<p>Analysis with RAG</p> <p>This uses a RAG model concept with Gemini and the data generated with the initial analysis to further curate and improve the information extraction.</p>		

Project Database

This database contains several tables on different data on the projects and paths of projects. It contains the Documents in all the projects, paths, analysis results of the projects.

Online Google RAG system

The RAG system including the vector database is all done externally in the cloud. All the calls from our client are sent here to do the heavy lifting.