Automated Literature Review Curation Plan

- 1. Manual Google Scholar Search:
 - Perform manual searches on Google Scholar using relevant keywords.
 - Copy the contents of the first three pages.
- 2. Data Organization in Google Sheets:
 - Paste the copied content into a structured Google Sheets format.
 - Organize the data by query, contents of page one, two, and three.
- 3. Data Extraction:
 - Extract key information from the search results:
 - Title of the research paper.
 - First author.
 - Number of citations.
- 4. DOI Retrieval:
 - Use an API to obtain the DOI (Digital Object Identifier) of each research paper from Crossref.
- 5. Downloading PDFs:
- Pass the DOI to either SciDownload or PyGetPapers (Python services) to download the corresponding PDFs.
 - Store these PDFs in a dedicated folder.
- 6. PDF Parsing:
 - Utilize Nougat from Meta to convert the PDFs into LaTeX format.

7. Data Extraction with Language Models:

- Feed the LaTeX data to language models.
- Extract structured information:
 - Abstract of the paper.
 - Similarity score to the intended research goal.
 - Technologies mentioned.
 - Applications (e.g., IoT in agriculture).
 - Keywords.

8. Paper Evaluation and Ranking:

- Rank the papers based on:
 - Number of citations.
 - Similarity score.
 - Journal reputability (create a journal score based on reputability).
- Compute a total paper ranking score.

9. Final Review and Writing:

- Review the top-ranked papers.
- Write the comprehensive literature review based on the findings.

Additional Notes:

- Make sure to comply with Google Scholar's terms of service during manual data collection.
- Ensure that the APIs and tools used for downloading and parsing PDFs are used legally and ethically.
- Consider the validity and reliability of the extracted data and the methods used for ranking the

