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Team No: 13

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Title of the Project: **Multi-Document Reasoning Engine using RAG**

Abstract:

The Multi-Document Reasoning Engine is an advanced Retrieval-Augmented Generation. (RAG) system designed to help users understand information spread across multiple documents more effectively. Instead of reading and analyzing each document one by one, the system processes all uploaded documents together and connects related ideas across them. This allows it to identify common points, differences, and supporting evidence, leading to more meaningful and accurate answers.

When a user asks a question, the system first retrieves the most relevant sections from all available documents and then uses a large language model to reason over this combined information. As a result, the answers are not only clear and easy to understand but also well-structured and grounded in the original sources.

This approach is especially useful for students, researchers, and professionals who often work with multiple reports, papers, or study materials on the same topic. It reduces the time spent switching between documents and helps users gain a deeper, more connected understanding of complex subjects. Overall, the Multi-Document Reasoning Engine acts as an intelligent assistant that simplifies multi-document analysis and supports better learning, research, and decision-making.

Keywords: Retrieval-Augmented Generation (RAG), Multi-Document Reasoning, Large Language Models, Document Retrieval, Information Integration.

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