Project Design Phase-II
Solution Requirements (Functional & Non-functional)

Date	31 January 2025
Team ID	
Project Name	DocuQuery: AI-Powered PDF Knowledge Assistant Using Google PaLM
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Gmail & Password Registration through Google Account
FR-2	PDF Upload	Upload PDFs for AI-based processing Support for large document uploads
FR-3	AI-Powered Querying	Ask natural language questions about PDFs Retrieve AI-generated answers based on document content
FR-4	AI Summarization	Generate concise summaries of uploaded PDFs Support for summarizing specific sections of a document
FR-5	Advanced Search	Search for keywords or topics within PDFs Highlight matching text in the document
FR-6	Voice-Based Querying	Accept voice inputs for document queries Convert voice to text and retrieve AI responses
FR-7	Multi-Document Analysis	Compare and analyze multiple PDFs simultaneously Cross-reference content from multiple documents
FR-8	Export & Share Results	Save AI-generated responses and summaries Share extracted information via email or download

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The system must have an intuitive user interface for easy navigation and AI interactions.
NFR-2	**Security**	Ensure secure storage of PDFs and user data with encryption (AES-256).
NFR-3	**Reliability**	The system should maintain uptime of 99.9% and ensure accurate AI responses.
NFR-4	**Performance**	The AI query response time should be under 2 seconds for standard documents
NFR-5	**Availability**	The system should be accessible across web and mobile platforms 24/7.
NFR-6	**Scalability**	The architecture should support high user loads and scale dynamically with cloud resources.
NFR-7	**Compliance**	The system should comply with data privacy regulations.