

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

Date	02 February 2026
Team ID	LTVIP2026TMIDS66271
Project Name	Flavour Fusion: Ai-Driven Recipe Blogging
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	Recipe Input Module	Enter recipe topic Select word count
FR-2	Input Validation	Validate empty input Validate word count range
FR-3	AI Integration	Connect to Gemini Flash Lite API Send structured prompt to model
FR-4	Recipe Generation	Generate structured recipe blog Include introduction, ingredients, steps
FR-5	Output Display	Display generated recipe in UI Allow user to copy content
FR-6	Additional Feature	Generate programming joke (optional feature)

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The application must have a simple and intuitive Streamlit interface that is easy to use.
NFR-2	Security	API keys must be securely stored and not exposed in the frontend.
NFR-3	Reliability	The system should generate consistent and structured outputs for valid inputs.
NFR-4	Performance	Recipe generation should complete within a few seconds.

NFR-5	Availability	The application should be accessible online whenever deployed.
NFR-6	Scalability	The system should handle multiple users without significant performance degradation.