

Project Initialization and Planning Phase

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| Date | 31 January 2026 |
| Team ID | LTVIP2026TMIDS66319 |
| Project Title | Flavour Fusion: AI-Driven Recipe Blogging |
| Maximum Marks | 3 Marks |

Project Proposal (Proposed Solution)

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| Project Overview | |
| Objective | The main objective of this project is to develop an AI-powered web application that generates customized and high-quality recipe blogs based on user inputs. |
| Scope | The scope of the project includes building a Streamlit-based web interface where users can enter a recipe topic and desired word count. The system generates a complete recipe blog using an AI model and displays it to the user. |
| Problem Statement | |
| Description | Many food bloggers and users find it difficult to create detailed and well-structured recipe blogs within a short time. Manual content creation requires creativity, research, and proper formatting, making it time-consuming. |
| Impact | Solving this problem helps users save time and effort while creating customized recipe blogs |
| Proposed Solution | |
| Approach | The proposed solution uses a Streamlit web application integrated with the Gemini Flash Lite model. Users provide a recipe topic and word count through the UI. The AI model processes the input and generates a complete recipe blog. |

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| Key Features | <ul style="list-style-type: none"> • User-friendly Streamlit interface • Custom recipe blog generation based on topic and word count • AI-powered content generation using Gemini Flash Lite • Programmer joke display for better user experience |
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Resource Requirements

| Resource Type | Description | Specification/Allocation |
|-------------------------|----------------------------------|---|
| Hardware | | |
| Computing Resources | CPU for application execution | Standard system CPU |
| Memory | RAM required to run application | 8 GB |
| Storage | Disk space for application files | 50 GB SSD |
| Software | | |
| Frameworks | Python web framework | Streamlit |
| Libraries | AI and utility libraries | google-generativeai |
| Development Environment | IDE and version control | VS Code, Git |
| Data | | |
| Data | User input text | Recipe topic and word count entered by user |