Initial Project Planning Template

Date	19 Feb 2026
Team ID	LTVIP2026TMIDS39529
Project Name	Advancing Nutrition Science through GeminiAI – NutriGen

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Sprint-1 — Data Collection and Nutrition Database Setup

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Priority	Team Members	Sprint Start Date	Sprint End Date
Sprint-1	Data Collection & Nutrition Dataset Preparation	NG-1	Collect food nutrition datasets from open sources	High	Khaja masthan	10-02-2026	19-02-2026
Sprint-1	Data Collection & Nutrition Dataset Preparation	NG-2	Clean and preprocess nutrition dataset	High	Shiva Kumar	10-02-2026	19-02-2026
Sprint-1	Data Collection & Nutrition Dataset Preparation	NG-3	Perform exploratory data analysis on nutrition data	Medium	Srilakshmi	10-02-2026	19-02-2026
Sprint-1	Data Collection & Nutrition Dataset Preparation	NG-4	Create structured nutrition database	High	Siva Putra	10-02-2026	19-02-2026

Sprint-2 — AI Model and Gemini Integration

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Priority	Team Members	Sprint Start Date	Sprint End Date
Sprint-2	AI Model Development	NG-5	Integrate Google Generative AI (Gemini API)	High	Khaja masthan	18-02-2026	25-02-2026
Sprint-2	AI Model Development	NG-6	Develop nutrition information generation module	High	Srilakshmi	18-02-2026	25-02-2026
Sprint-2	AI Model Development	NG-7	Build personalized meal plan generator	High	Siva Putra	18-02-2026	25-02-2026
Sprint-2	AI Model Development	NG-8	Develop virtual nutrition coaching chatbot	Medium	Shiva Kumar	18-02-2026	25-02-2026

Sprint-3 — Web Application Development

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Priority	Team Members	Sprint Start Date	Sprint End Date
Sprint-3	Web Integration & UI Development	NG-9	Design frontend UI (HTML, CSS, JS)	Medium	Khaja masthan	26-02-2026	05-03-2026
Sprint-3	Web Integration & UI Development	NG-10	Develop backend using Python (Flask/Django)	High	Srilakshmi	26-02-2026	05-03-2026
Sprint-3	Web Integration & UI Development	NG-11	Connect AI model with backend APIs	High	Siva Putra	26-02-2026	05-03-2026
Sprint-3	Web Integration & UI Development	NG-12	Implement barcode scanning nutrition feature	Medium	Shiva Kumar	26-02-2026	05-03-2026

Sprint-4 — Testing, Deployment, and Documentation

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Priority	Team Members	Sprint Start Date	Sprint End Date
Sprint-4	Testing & Deployment	NG-13	Perform system testing and bug fixing	High	Khaja masthan	06-03-2026	13-03-2026
Sprint-4	Testing & Deployment	NG-14	Deploy application on cloud platform	High	Srilakshmi	06-03-2026	13-03-2026
Sprint-4	Testing & Deployment	NG-15	Prepare project documentation and report	Medium	Siva Putra	06-03-2026	13-03-2026
Sprint-4	Testing & Deployment	NG-16	Final demo preparation	Medium	Shiva Kumar	06-03-2026	13-03-2026