Project Initialization and Planning Phase

Date	10 Feb 2026
Team ID	LTVIP2026TMIDS65517
Project Name	Advancing Nutrition Science through GeminiAI – NutriGen
Maximum Marks	3 Marks

Define Problem Statement

Many individuals struggle to understand nutritional values, create balanced meal plans, and access affordable nutrition guidance. Existing tools either provide limited data or lack personalization. Users need an intelligent system that delivers detailed nutrition data, personalized meal plans, and virtual nutrition coaching in real time. NutriGen solves this by leveraging Google Generative AI to provide dynamic nutrition insights, customized meal plans, and AI-powered coaching support.

Example:

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1- Tailored Meal Planning	A health-conscious individual with specific dietary needs.	Create a healthy weekly meal plan that matches my dietary restrictions and taste preferences.	I don't know how to balance nutrients or plan meals properly.	I lack nutrition knowledge and don't have time to research recipes and nutrient values.	Confused and worried about whether I am eating healthy.
PS-2 - Dynamic Nutritional Insights	A fitness enthusiast or diet-tracking user.	Understand the nutritional value of foods before eating them.	Nutrition labels are complex and manual tracking is difficult.	Most apps don't provide detailed micronutrient and macronutrient breakdown instantly.	Unsure about my food choices and progress toward my health goals.