Project Initialization and Planning Phase

Date	20 August 2024
Project Title	Nutrition App Using Gemini Pro : Your Comprehensive Guide to Healthy Eating and Well-being
Maximum Marks	3 Marks

Project Proposal (Proposed Solution) report:

The Nutrition App uses Google Gemini Pro's Vision API to analyze food images and provide nutritional information. It offers personalized diet and workout recommendations based on user input. The app empowers users to make informed decisions about their diet and lifestyle.

Project Overview	
Objective	To design and develop a user-friendly and accurate mobile nutrition app that leverages Google Gemini Pro's Vision API to provide personalized nutrition guides, meal planning, and healthy eating recommendations, empowering individuals to make informed decisions about their diet and lifestyle.
Scope	The Nutrition App analyzes uploaded food images using Gemini Pro Vision API. It provides personalized nutrition guides, including food item detection, nutritional information, and healthy suggestions. A 3-day personalized meal plan is also generated.
Problem Statement	
Description	Individuals face challenges in tracking daily food intake. Traditional methods are time-consuming, prone to errors, and inaccurate. Lack of personalized guidance hinders informed diet decisions.
Impact	The project aims to improve health outcomes, increase efficiency, and enhance nutrition knowledge through a personalized food tracking and management system. It also promotes scalability and accessibility, making healthy eating accessible to a wider population.
Proposed Solution	
Approach	The solution offers a seamless user experience through personalization, automation, and digital accessibility. It empowers users to make informed diet and lifestyle decisions. The integration of machine learning and digital technology provides tailored support and resources.

Key Features	Personalization, Automation, Holistic Support, Digital Accessibility, Machine Learning Integration, Simplification of Healthy Living.

Resource Requirements:

Resource Type	Description	Specification/Allocation
Hardware		
Computing Resources	CPU/GPU specifications, number of cores	2 x Intel Xeon E5-2690 v4
Memory	RAM specifications	128 GB
Storage	Disk space for data, models, and logs	2 x 1 TB SSD + 4 x 2 TB HDD
Software		
Frameworks	Python frameworks	Flask
Programming Language	JavaScript	ECMAScript 2022 (or latest stable version)
Browser Support	Latest versions of Chrome, Firefox, Safari, and Edge	Latest 2 versions (e.g., Chrome 103 and Chrome 102)
Data		
Relational database management system (RDBMS)	2 x dedicated database servers	4 x 2 TB HDD