Project Initialization and Planning Phase

Date	10 July, 2024
Team ID	SWTID1720173354
Project Title	Gemini Health Application
Maximum Marks	3 Marks

Project Proposal (Proposed Solution) template

This project proposal offers a solution to a specific problem. The suggested solution describes the approach, important features, and resource requirements, involving hardware, software, and employees, and opens with a clear purpose, specified scope, and a brief problem statement.

Project Overview	
Objective	Create the Nutritionist AI mobile application, that will use the Gemini Pro model's strong AI capabilities to offer users alongside a range of health and wellness objectives unique food recommendations & nutritional guidance.
Scope	Users: People looking to enhance their eating habits and overall health. Benefits: feature tailored meal plans, nutritional insights, feedback on tracked meals, fitness tracker integration, and instructional materials. Dietary Preferences: vegetarian, low carb, high protein. Health Objectives: Weight Loss, Diabetes Management, Muscle Development
Problem Statement	
Description	Nutritionist AI uses AI technology to evaluate user data (dietary preferences, health goals, and exercise level) and create tailored meal plans according to each user's specific requirements. The software works with fitness monitors to provide a complete picture of an individual's wellness and progress.
Impact	- Encourage healthier eating habits and boost overall health. - Empower individuals to take charge of their health by making informed eating choices. - Personalized meal planning can help with weight management, diabetes management, and muscle building.

Proposed Solution	
Approach	• Create a mobile app that uses machine learning algorithms (the Gemini Pro model) for analysis of information and meal planning. • Add capabilities for creating user profiles, logging meals, syncing fitness trackers, and delivering educational information. • Create a user-friendly interface for simple navigation and data input.
Key Features	• Personalized meal plans. • Meal logging and feedback • Fitness monitor integration • Support for different dietary preferences (vegetarian, low carb, high protein) • Educational tools for healthy eating and managing certain health concerns. • Data Visualization and Performance Tracking

Resource Requirements

Resource Type	Description	Specification/Allocation
Hardware		
Computing Resources	CPU/GPU specifications, number of cores	e.g., 2 x NVIDIA V100 GPUs
Memory	RAM specifications	e.g., 8 GB
Storage	Disk space for data, models, and logs	e.g., 1 TB SSD
Software		
Frameworks	Python frameworks	e.g., Streamlit
Libraries	Additional libraries	e.g., streamlit,google.generativeai , python-dotenv
Development Environment	IDE, version control	e.g., Jupyter Notebook, Git
Data		

| Data | Source, size, format | e.g., local drive, 10,000 images |