**Project Initialization and Planning Phase**

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| 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.

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| **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**

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| **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 |