**Project Initialization and Planning Phase**

|  |  |
| --- | --- |
| Date | 12 July 2024 |
| Team ID | SWTID1720197873 |
| Project Title | Nutrition App Using Gemini Pro : Your Comprehensive |
| Maximum Marks | 3 Marks |

**Team Leader :** Keerthi krishna s

**Team member :** Aniruddhan N

**Team member :** Ruwan aryan

**Project Proposal (Proposed Solution) template**

This project proposal outlines a solution to address a specific problem. With a clear objective, defined scope, and a concise problem statement, the proposed solution details the approach, key features, and resource requirements, including hardware, software, and personnel.

|  |  |
| --- | --- |
| **Project Overview** | |
| Objective | To develop an AI-driven nutrition app that provides personalized meal plans, accurate nutritional analysis, and expert guidance to help users maintain a balanced diet and achieve their health goals. |
| Scope | **Nutritional Analysis**: Offer accurate analysis of logged food intake and provide healthier alternatives. |
| **Problem Statement** | |
| Description | Users struggle to maintain a balanced and personalized diet that meets their unique health goals and dietary preferences. This issue arises due to the lack of personalized nutrition plans, time-consuming tracking methods, unreliable information, and insufficient guidance |
| Impact |  Improve users' overall health and well-being by providing tailored nutrition plans.   Save users time and effort in tracking their food intake and planning meals.   Enhance users' ability to make informed dietary choices with access to reliable nutritional information. |
| **Proposed Solution** | |
| Approach | **AI Integration**: Utilize AI to generate personalized meal plans and provide accurate nutritional analysis. |
| Key Features | Highlight the unique aspects of the proposed solution |

**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., 32 GB |
| Storage | Disk space for data, models, and logs | e.g., 2 TB SSD |
| **Software** | | |
| Frameworks | Python frameworks | e.g., Streamlit |
| Libraries | Additional libraries | e.g., google-generativeai |
| Development Environment | IDE, version control | e.g., Jupyter Notebook,VSCode, Git |
| **Data** | | |
| Data | Source, size, format | e.g., Prompt engineering, User own input, Zero-Shot learning |