Project Scope

The project aims at providing personalized dietary recommendations and nutritional advice using the advanced capabilities of the Gemini Pro model. The app leverages artificial intelligence to analyze user data, dietary preferences, and health goals, delivering tailored meal plans, nutritional insights, and wellness tips. The primary aim of Nutritionist AI is to promote healthier eating habits and improve overall well-being through intelligent and data-driven recommendations.

Project Requirements

To ensure that the project meets its completion criteria, following tasks need to be completed:

* Requirements Specification
  + Create a requirements.txt file to list the required libraries.
  + Install the required libraries
* Initialization of Google API Key
  + Generate Google API Key
  + Initialize Google API Key
* Interfacing with Pre-trained Model
  + Load the Gemini Pro pre-trained model
  + Implement a function to get gemini response
  + Implement a function to read PDF content
  + Write a prompt for gemini model
* Model Deployment
  + Integrate with Web Framework
  + Host the Application

Functional Requirements:

* Generative AI Concepts
* NLP: <https://www.tutorialspoint.com/natural_language_processing/index.htm>
* GenerativAI: <https://en.wikipedia.org/wiki/Generative_artificial_intelligence>
* AboutGemini: <https://deepmind.google/technologies/gemini/#introduction>
* GeminiAPI: <https://ai.google.dev/gemini-api/docs/get-started/python>
* GeminiDemo: <https://colab.research.google.com/github/google/generative-ai-docs/blob/main/site/en/gemini-api/docs/get-started/python.ipynb>
* Streamlit:<https://www.geeksforgeeks.org/a-beginners-guide-to-streamlit/>

Software Reqiurements

* Vs code
* Text Editor

Project Deliverables

The project is to give a necessary information about the meal we used to eat daily.

Its outcome will be helpful to find out the calories in the daily food requirements.

Project Team

The team consists of single individual. All the tasks related to documentation , building and deploying are performed by the individual member itself.

Project schedule:

The project schedule is from 18/09/2024 to 29/10/2024.