

Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Team ID	PNT2022TMID50689
Project Name	AI-powered Nutrition Analyzer for Fitness Enthusiasts
Batch ID	B4-4M6E

Functional Requirements:

Following are the practical necessities of the proposed arrangement.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Client Enrollment	Clients can make a record to utilize the application. This should be possible by making a persona on the application with a username and secret phrase or by utilizing a current email ID.
FR-2	Client Affirmation	When a client registers onto the application, they get an affirmation to their email id which they accommodate enlistment. OTP verification is incorporated to guarantee wholesale fraud doesn't happen.
FR-3	Calorie Schedule Creation	On formation of a client profile, a schedule is created in relationship with the record. This schedule is private to the client and monitors the calories consumed in a day and related measurements.
FR-4	Picture Catching and Handling	The application permits clients to catch pictures of the fixings they consume. These are given to the model for anticipating their names, for example recognize the natural products. Further, the amount of the natural products ought to be recognized. The application ought to have the option to work with pictures of bad quality and low goal also.
FR-5	Calorie Worth Calculation	When the names of the fixings and their amount have been found, the net calorie worth of the dinner is determined by summarizing the calories of every fixing in their particular sums. The calorie values are brought from the web while that of Oftentimes utilized things are brought from an information base.

FR-6	Capacity of Information	Information about the client and their sign in subtleties are put away in a backend data set. Aside from these, calorific data of much of the time consumed fixings are likewise put away to limit above and intricacy.
FR-7	Calorie Over-Utilization Notice	At the point when a client surpasses their passable calorie utilization sum for the afternoon, the application gives a notice for something similar. The application then recommends low-calorie diets to guarantee least over Utilization.
FR-8	Diet Plan Detail	Clients can choose the sort of diet plan they need to follow in view of an objective, for example, weight reduction, muscle building, and so on. The application sources diet plans and food things that supplement their objectives from the internetto assist them with accomplishing their objective.

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	Ease of use	The clients ought to have the option to utilize the application with no troubles. The connection point ought to be not difficult To utilize and comprehend. The picture catch interaction ought to be smooth and not drawn-out.
NFR-2	Security	Subtleties of the clients and their own calories Schedule ought not be uncovered or shared to different clients. Security of information ought to be guaranteed.
NFR-3	Dependability	The application ought to accurately distinguish the natural products from the caught picture and bring its dietary benefit. The count and estimation of the calories ought to be done precisely.
NFR-4	Execution	The application ought to be based on a profoundly proficient Forecast model with the end goal that the outcomes are exact. It ought to remember reality intricacy.
NFR-5	Accessibility	The application ought to be accessible to its clients consistently and ought to work proficiently. It shouldn't experience the ill effects of issues, for example, application crashes.

NFR-6	Adaptability	The application ought to have the option to help refreshes concerning highlights and usefulness. The framework ought to be assembled with the end goal that it can overhaul utilizing the Current fundamental engineering.
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