

PROJECT DESIGN PHASE-II

SOLUTION REQUIREMENTS (FUNCTIONAL & NONFUNCTIONAL)

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| TEAM ID | PNT2022TMID45737 |
| PROJECT NAME | AI-POWERED NUTRITION ANALYZER FOR FITNESS ENTHUSIASTS |

FUNCTIONAL REQUIREMENTS:

Following are the functional requirements for the proposed solution.

| FR NO. | FUNCTIONAL REQUIREMENTS(EPIC) | SUB REQUIREMENT(STORY/SUBTASK) | |
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| FR-1 | USER REGISTRATION | -Registration through Gmail -Registration through Mobile Number -Registration through Face-book | |
| FR-2 | USER CONFIRMATION | Confirmation via Email Confirmation via OTP | |
| FR-3 | USER DETAILS | PERSONAL DETAILS FOOD DETAILS | |
| | | Age | Food |
| | | Height | Recipe |
| | | Weight | Added ingredients |
| | | Diseases if any | Age |
| | | Conditions is any | |
| | Allergies is any | | |
| FR-4 | USER REQUIREMENTS | -The user simply inputs your recipe ingredients and amounts. The software will instantly produce an accurate readout of your dish in terms of nutritional analysis in a readable format that consumers are familiar with. -With already given details the system can alert the consumer if any content of their allergies ,it can alert the consumer | |

NON-FUNCTIONAL REQUIREMENTS:

Following are the functional requirements for the proposed solution.

| FR.NO | NON-FUNCTIONAL REQUIREMENTS | DESCRIPTION |
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| NFR-1 | USABILITY | <ul style="list-style-type: none">• No training is required to access the Nutrition Analyzer.• The results should be loaded within 30 seconds.• It should be user friendly and comfortable.• It should be simple and easy to use.• The results should be self explanatory so that it can be understood by common people. |
| NFR-2 | SECURITY | <ul style="list-style-type: none">• AI powered nutrition analyzer for fitness should contain more security in which our data which entered or maintained should be more security.• With the help of the username and password it provides more security in which it can access more securable and the data are private.• It should be social-economic which should access to sufficient and safe to use. |
| NFR-3 | RELIABILITY | <ul style="list-style-type: none">• It is Important that the AI powered nutrition analyzer for fitness provides should Must reliable.• How a person can find it is reliable? It is easy to find that is he/she can compare the nutrition based food with other nutrition related application so, it can easily rectify whether it is reliable or not.• But it take too much time, to avoid this a reliable application should made in which it itself produces whether we can get correct solution or not. So, it is necessary that the AI powered nutrition analyzer for fitness should have proper data and information in which we can get a correct information about it and also get a proper guidance about it.• With the proper guideness and proper information in which we can get a |

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| | | <p>nutrition properly and we can have get a proper fitness plan.</p> <ul style="list-style-type: none"> • It should also provides the information on nutrition and health which it should prevent from health information on diseases, health risks and prevention guidelines. It should also provides an extension a research based online learning network with several resource areas, so it provides more reliability in that area. For more reliable it can also contains the calorie information, balanced diet plans, what type food can consumed at what time etc. So, by this way it can reliable. |
| NFR-4 | PERFORMANCE | <ul style="list-style-type: none"> • It should provide more number of users to consume at any time and at any place. • It should provide Reliability, Scalability, Security and Usability. • It should contain minimum data while over-paging the websites or application and it is necessary that it should not exceed more than 20mb. • While consuming the page it should provide the response as much as possible without any delay or time traffic. • The connection should e properly maintained so that it can use while travelling or in remote places. • The nutritious food to meet their dietary needs and the food preferences for an active and healthy life. • It should be consistently access, availability and affordability of foods and beverages that promote well-being and prevent from diseases. • It should suitable in all situations that exists to all people, at all times. |
| NFR-5 | AVAILABILITY | <ul style="list-style-type: none"> • Easy to access Data. • Avoids Data redundancy and inconsistency. • Fast and Efficient. • User Friendly. |
| NFR-6 | SCALABILITY | <ul style="list-style-type: none"> • The architecture for AI powered Nutrition Analyzer for fitness provides the clear procedure daily consumption of food and |

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| | | <p>helps the user to maintain a healthy diet.</p> <ul style="list-style-type: none">• According to their tracking system implemented in architecture provide the proper mechanism to the every individual of their nutrients intake which can be increased or decreased. <p>The premium amount for analyzer is very much optimum.</p> |
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