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| **TOPIC:**  **AI-Powered Nutrition Analyzer For Fitness Enthusiasts - PNT2022TMID29399**    **SOLUTION REQUIREMENTS:**  FUNCTIONAL REQUIREMENT:  FOLLOWING ARE THE FUNCTIONAL REQUIREMENTS OF THE PROPOSED SOLUTION.     |  |  |  | | --- | --- | --- | | FUNCTION NUMBER | FUNCTIONAL REQUIREMENT | SUB REQUIREMENT | | FN.NO-1 | USER REGISTRATION/LOGIN | REGISTER AFTER OPENING THE APPLICATION | | FN.NO-2 | USER DETAIL | PROVIDE DETAIL ABOUT HEALTH STATUS AFTER  REGISTRATION BY SELECTING AND SPECIFY ABOUT IT | | FN.NO-3 | CAPTURING IMAGE | CAPTURE THE IMAGE AND CHECK THE PARAMETERS OF THE CAPTURED IMAGE. | | FN.NO-4 | IMAGE PROCESSING | UPLOAD THE IMAGE FOR PROCESSING | | FN.NO-5 | IMAGE IDENTIFICATION | IDENTIFY THE FOOD OR DRINK PROVIDED IN THE IMAGE. | | FN.NO-6 | IMAGE DESCIPTION | PROVIDE THE NUTRITIONAL CONTENTS OF THE FOOD OR DRINK IDENTIFIED. | |

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| NON-FUNCTIONAL REQUIREMENT:  FOLLOWING ARE THE NON-FUNCTIONAL REQUIREMENT OF THE PROPOSED SOLUTION     |  |  |  | | --- | --- | --- | | NON FUNCTION  NUMBER | NON-FUNCTIONAL REQUIREMENT | SUB REQUIREMENT | | NFN.NO-1 | USABILITY | DATASET OF ALL FOOD/DRINK TO IDENTIFY THE NUTRITIONAL CONTENT OF THE ITEM. | | NFN.NO-2 | SECURITY | THE INFORMATION AND THE HEALTH STATUS OF USER AND NUTRITIONAL DETAILS ABOUT FOOD ARE SECURED HIGHLY. | | NFN.NO-3 | RELIABILITY | THE IMAGE QUALITY IS IMPORTANT TO PROVIDE THE NUTRITIONAL DETAILS ABOUT FOOD | | NFN.NO-4 | PERFORMANCE | PERFORMANCE IS BASED ON THE FOOD THAT IS SCANED. | | NFN.NO-5 | AVAILABILITY | IT IS AVAILABLE FOR ALL THE USER TO DETECT THE NUTRITIONAL DETAILS ABOUT FOOD / DRINK. | | NFN.NO-6 | SCALABILITY | INCREASE THE PREDICTION OF NUTRITIONAL DETAILS IN THE FOOD. | |