**Project Design Phase-I**

**Proposed Solution Template**

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| Date | 24 September 2022 |
| Team ID | PNT2022TMID39958 |
| Project Name | Project – Nutrition Analyzer for fitness Enthusiastics |
| Maximum Marks | 2 Marks |

**Proposed Solution Template:**

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| **S.No.** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | 1) People with obesity and other major health problem who have to what there food intake.  2) A nutrition tracker should be able to calculate the amount of nutrition in food  3) Used for people who cannot afford personal nutritionist and dietician.  4) Should actively support and monitor the personalized supply of nutrient.  5) It should help dietary analysis of energy and nutrition intake.  6) Should provide with right option in order to maintain a healthy diet.  7) It should also used by people who have diabetes and blood pressure etc .. |
|  | Idea / Solution description | 1) The AI-based food image recognition algorithms and the proposed real-time food recognition system employing edge computing service paradigm.  2) We build a model of the object that identified the fruit and gives required data that increase metabolism with nutrition analyzer.  3) Build web application by using framework that consumer can access instant information on nutrition.  4) It is a essential supporting system for health and training needs and turns out a best analyzer for fitness keen person |
|  | Novelty / Uniqueness | 1) Time consuming .  2) We believe that more be devoted to further improving the speed.  3) Less complex than other system.  4) It can boost the classification accuracy substantially. |
|  | Social Impact / Customer Satisfaction | 1) It outperforms the results from all existing approaches in terms of recognition accuracy  2) It develops a real-time system whose response time is close to the minimal of existing techniques  3) It saves the energy by keep the energy consumption equivalent to the minimum of the existing approaches  4) User can ensure that the food has optimal requirement of vitamins and minarals and it creates trusting users. |
|  | Business Model (Revenue Model) | C:\Users\ADMIN\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Word\Architecture-of-the-proposed-food-recognition-system.ppm.png |
|  | Scalability of the Solution | 1) In the future, we plan to continue improving performance of the algorithms  2) In terms of detection accuracy and system in terms of response time and energy consumption.  3) We also plan to integrate our system into a real-world mobile devices and edge/cloud computing-based system.  4) To enhance the accuracy of current measurements of dietary caloric intake estimate. |