**Project Design Phase-I**

**Proposed Solution**

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| Date | 19 September 2022 |
| Team ID | PNT2022TMID15800 |
| Project Name | AI-powered Nutrition Analyzer for Fitness Enthusiasts |
| Maximum Marks | 2 Marks |

**Proposed Solution:**

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| **S.No.** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | * The main aim of the project is to building a model which is used for classifying the fruit depends on the different characteristics like colour, shape, texture etc. * Here the user can capture the images of different fruits and then the image will be sent the trained model. * The model analyses the image and detect the nutrition based on the fruits like (Sugar, Fibre, Protein, Calories, etc.). |
|  | Idea / Solution description | * The user logins to the system using the login credentials. * The user interacts with the UI (User Interface) and give the image as input. * Then the input image is passed to the flask application. * Next is to develop an AI model to capture the image and recognize the fruit and find it’s nutritional values. * And finally with the help of the model which we build we will classify the result and showcase it on the UI. |
|  | Novelty / Uniqueness | * This model can capture images and detect the nutritional values of the fruits and showcase it to the user. * The model collects the user input and prepares diet charts for the user. * Personalized fitness and diet plans for the user. |
|  | Social Impact / Customer Satisfaction | * Helps the fitness enthusiasts to find the nutritional value of the fruits they’re consuming which will help them to maintain a balanced diet by taking adequate amount of nutrients needed every day. * To consult with the nutritionist and personal trainers for their diet plans and training schedules. * Generalised diet and fitness plans to all the users based on their goals. |
|  | Business Model (Revenue Model) | * Specific diet and fitness plans according to their body type and their goals for the premium subscription members. * Personal trainers to help the fitness enthusiasts with the workouts. * Personal nutritionist for the fitness enthusiast to help with diet plans based on their fitness goals. |
|  | Scalability of the Solution | * The solution is developed in the such a way that we can update the system without disturbing the current model. * All the future enhancements can be added to the system without changing the model. |