**Requirements Gathering Document**

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| **Module Name** | Daily Healthy Food (DHF) |
| **Date** | Dec 2nd, 2020 |
| **Version** | 1.0 |

**Requirements**

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| **ID** | **Requirements** | **Date** | **Related features** | **Related stakeholders** | **Type (Functional / Non-Functional)** |
| **1** | Manage User account Operations | Dec 2nd, 2020 | * User shall have personal data such as gender, date of birth, weight (Kg), height. * User must be able to login to his account using email and password. * User can update his profile, height and weight will replaced to new value. * Email Address is unique account identifier. * Validate User inputs | * System Admin. * System User. | Functional |
| **2** | Calculate User calories | Dec 2nd, 2020 | * System can calculate the user calories by given weight, age and height. * System calculates the remaining calories from given food items to show the user the progress. | * System User. | Functional |
| **3** | Manage Food operations | Dec 2nd, 2020 | * User shall enter food by providing food name, amount, date. * User should be presented autocomplete list which contains large food names and menus while typing. * Autocomplete list must prioritize food names which are already in user’s history. * After choosing food name, user should choose the amount of product (g). * User shall be able to display nutrients in a particular food like protein … etc | * System User. * System Admin. | Functional |
| **4** | Recommend Healthy Food | Dec 2nd, 2020 | * User after choose a list of daily food, System can calculate the remaining vitamins that required, suggest to increase or decrease suitable food. | * System User. | Functional |
| **5** | Manage Food menu operations | Dec 2nd, 2020 | * User can create menus by giving a menu name, food items. * User shall display nutrients for each food item in a menu or in total. * User shall list menus already created, * User should delete a menu, * User should update a menu by inserting a new food items or deleting an existing one. | * System User. | Functional |
| **6** | Manage physical activity operations | Dec 2nd, 2020 | * User should enter physical activity by writing activity name, duration in minutes. * While typing activity name, user can be presented an autocomplete list contains relevant activities name like exercise, summing, running …etc * System should calculate how much energy a user burned according to user’s height and weight. * User shall display how much energy burnt in particular activity | * System User. | Functional |
| **7** | Defining goals and targets to complete. | Dec 2nd, 2020 | * User should determine his/her goal throw using this app if it’s (getting enough nutrients) or (burning calorie) or (losing weight). * User shall display his/her daily progress in a charts. | * System User. | Functional |
| **8** | Manage Reports of food and physical activities | Dec 2nd, 2020 | * User shall display how many calories consumed and burnt, and the balance between them in daily, weekly reports. * User should display which nutrients he consumed for a given date range. * User should display changes in weight daily, weekly. | * System User. | Functional |
| **9** | Detect food items | Dec 2nd, 2020 | * System can detect food item by taking a capture using camera. * System can compare the image with current system data using computer vision modal. * System displays ingredient, nutritional values and recipes and return these values to the user. | * System User. | Functional |
| **10** | The system shall be both resource-efficient and scalable | Dec 2nd, 2020 | * Minimize the time of processing a request. * Support bulk requests. * Deployed on VM to satisfy scalability with distributed manner isolated from operating systems. | * System Admin. | Non-Functional |
| **11** | The system should be usable. | Dec 2nd, 2020 | * Create an easy UI for better user experience | * System Admin. | Non-Functional |
| **12** | The system should adopt and follow certain quality standards | Dec 2nd, 2020 | * Follow W3C Html Markup Standards. * Coding/documenting in agile process for different technologies. | * System Admin. | Non-Functional |
| **13** | The system shall push and encourage its users | Dec 2nd, 2020 | * the system should ask or remind them to input their current weights through notifications/emails. | * System Admin. | Non-Functional |
| **14** | The system shall use and contain only open source technologies, libraries, and tools | Dec 2nd, 2020 | * Build web portal with ASP.NET Core API. * Build mobile application using Flutter. * Hosted in Azure. * Using Source Control Git. | * System Admin. | Non-Functional |
| **15** | The system shall expose an HTTP RESTful API which supports | Dec 2nd, 2020 | * Support 3rd party API for Food names, each food nutrients, activities. * API shall have complete documentation. | * System Admin. | Non-Functional |
| **16** | The system should manage user account activation | Dec 2nd, 2020 | * Disable the user account if it wasn’t active for at least 1 month. * Send email before the target time by 7 days. | * System Admin. | Non-Functional |