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| **Date** | 4 September 2022 |
| **Team ID** | PNT2022TMID54057 |
| **Project Name** | Nutrition Assistant Application |
| **Maximum Marks** | 4 Marks |

**IDEATION PHASE**

**LITERATURE SURVEY**

**Literature Survey - 1**

**NAME OF THE JOURNAL :** Personalized Dietary Assistant-an intelligent space application

**AUTHOR / PUBLISHER :** Gabriella Simon-Nagy , J.T.Toth, Anna maria R.Varkonyi-koczy

**YEAR OF PUBLICATION :** 2017

**REVIEW :**

The Application tracks users' daily dietary intake, uses data mining to discover their specific preferences, and informs them of the negative implications of their current diet. Then an analysis will be done using the knowledge base to identify various food items that fit the users' reported tastes while also balancing their daily nutrition in their physical Characteristics, activities, and health concerns (e.g. diabetes, celiac disease ,food allergies, etc).Finally, the system suggests adding items to the consumption list or switching alternative item based on the findings.

**Literature Survey - 2**

**NAME OF THE JOURNAL :** A food recommender system considering nutritional

informationand user preferences

**AUTHOR / PUBLISHER :** Raciel Year Toledo, Ahmad A.Alzahrani and Luis Martinez

**YEAR OF PUBLICATION :** 2019

**REVIEW :**

Unhealthy diets have been identified as the important causing factor of such diseases. This Application presents a general framework for daily meal plan recommendations, incorporating as main feature the simultaneous management of nutritional-aware and preference aware information, in contrast to the previous works which lack this global viewpoint. The proposal incorporates a pre filtering stage that uses AHP Sort as multi-criteria decision analysis tool for filtering out foods which are not appropriate to the current user characteristics.

**Literature Survey - 3**

**NAME OF THE JOURNAL :** Mobile Application Based Teli nutrition System for Pandemic

**AUTHOR / PUBLISHER :** Taslima Akter Tamanna, Srijani Choudhury, Afsana Mohammad

Monirujjaman Khan

**YEAR OF PUBLICATION :** 2021

**REVIEW :**

This ApplicationSeek out direct and psychosocial help from qualified health care professionals, including lay and peer guides in your community. Protection against illness will be made possible by pursuing nutrition advice, promoting breastfeeding, and combating misinformation regarding COVID-19 transmission. Nutritionists using this programme can easily carry out the proper work of communicating dietary messages to mothers.

**Literature Survey - 4**

**NAME OF THE JOURNAL :** Profile based system for nutritional information management

**AUTHOR / PUBLISHER :** [Rui Costa](https://ieeexplore.ieee.org/author/37089130147), [Luís Marcelino](https://ieeexplore.ieee.org/author/37945797800), [Catarina Silva](https://ieeexplore.ieee.org/author/37418734200)

**YEAR OF PUBLICATION :** 2013

**REVIEW :**

The Authors tried to improve people's quality of living by recommending foods that adhere to their dietary needs and/or nutritional requirements (for instance, due to hypertension or obesity, among others). On a mobile device, the user can view and customise their profile. The basic rules are provided by a set of predefined templates, which may then be changed according to the personal nutrition guidelines. Later, the food items can be filtered using the options given in the profile page.

**Literature Survey - 5**

**NAME OF THE JOURNAL :** Effects and challenges of using a nutrition assistance system:

results of a long term mixed-method study

**AUTHOR / PUBLISHER :** Hanna Hauptmann1,Nadja Leipold ,Mira Madenach

**YEAR OF PUBLICATION :** 2021

**REVIEW :**

The Authors started by using quantitative and qualitative measures of 34 participants during a study of 2–3 months, they understood how our nutrition application affects the users’ physique, nutrition behaviour, system interactions and system perception. The results shown that Nutrilize positively affects nutritional behaviour measured by the optimal intake of each nutrient. The analysis shows that reflective visual feedback has more substantial impact on healthy behaviour than the recommender. Finally, they identified and designed the system by identifying important factors, such as the users’ acceptance of the recommender’s taste, health, and personalization.