## Ideation Phase Literature Survey

Date	19 September 2022	
Team ID	PNT2022TMID22530	
Project Name	Nutrition Assistant Application	

			Year		
S.NO	Title	Authors	published	Techniques	Survey
				•	Outcome
1.	Personalized dietary assistant — An intelligent space application	Balazs Tusor, Gabriella Simon- Nagy, J.T. Toth, A. R.Varkony i- Koczy	20-23 October 2017	The software tracks its users' daily dietary intake, uses data mining to discover their specific preferences, and informs them of the negative implications of their current diet on their health. Then it conducts an analysis of the knowledge base to identify various food or drink items that fit the users' reported tastes while also balancing their daily nutrition in light of 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 one item for another based on the findings.	A graph-based architecture is used to materialise the knowledge base, with each node standing for a concept or actual instance in the real world. The relationships between the concepts are described by the edges linking the nodes, which may also assign numerical or fuzzy data. Specialized fuzzy look-up table classifiers carry out data mining and idea recognition.

<u>2.</u>	Intelligent Diabetes Assistant:	David L. Duke,	31 March 2008 - 04 April 2008	In order to solve this issue, the Intelligent Diabetes Assistant (IDA) collects	The patient picks up knowledge based on their own food habits.
	Assistant: Using machine learning to help manage diabetes	Charles Thorpe, Mazahir Mahmoud, Mahmoud Zirie	April 2000	data remotely, immediately transmits it to a doctor, and then automatically processes it to identify significant trends. For both the patient and the care team, the system increases the efficiency of data gathering and analysis. Using IDA, we have carried out a two-week longitudinal study that followed 10 diabetics' dietary habits, lifestyle choices, and blood glucose measurements.	The care team also receives a thorough sample of the patient's behavior from the data gathered by IDA. Due to the fact that it is based on data that more accurately reflects the patient's habits, this could result in better therapeutic guidance.
<u>3.</u>	Profilebased system for nutritional information management	Rui Costa, Luís Marcelino, Catarina Silva	09-12 October 2013	This application may help improve people's quality of life by recommending foods and beverages 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 to match your personal nutrition guidelines.  Later, the food that is offered to each user can be filtered using the rules that were set in the profile.	There is still opportunity for a solution that combines the fields of shopping assistants and nutritional control. The subject of nutritional advice and counselling hasn't been adequately investigated. Applying profiles using straightforward filters may not be interesting to users, according to preliminary research. Users were more interested in testing out standard shopping features than they were in using the profiling technique during the tests. This behaviour may be brought on by the user's defined profile not being adequate.

<u>4.</u>	Mobile	Taslima	27-30	Seek out direct and	This nutrition tool may
	Application	Akter	October	psychosocial help from	be used to save data for
	Based Teli-	Tamanna,	2021	qualified health care	expectant moms and
	nutrition	Srijani		professionals, including lay	their newborns, and it
	System for	Choudhury,		and peer guides in your	offers the right
	Covid-19	Afsana,		community.	technique to educate
	Pandemic	Mohammad		Protecting the function of	mothers of their
		Monirujjaman		nourishing	nutrition messages
		Khan		nourishment as a partner	based on their ANC,
		Kilali		against illness will be	PNC state, and the age
				made possible by pursuing	of the newborn kid.
				nutrition advice,	Nutritionists using this
				promoting breastfeeding,	programme can easily
				and combating misinformation regarding	carry out the proper work of communicating
				COVID-19 transmission.	dietary messages to
				This application is simple	mothers. A writing
				to use for any healthcare	survey was also
				provider in Bangladesh.	conducted to identify
				Our health workers	the significant
				frequently fail to provide	problems with
				moms with accurate	computer programming
				nutrition information.	and the need for
				With the use of such a tool,	portable programmes
				moms might be provided	for handling medical
				with a suitable way to	problems.
				convey certain dietary	
				instructions based on their	
				developmental phases and	
				the age of their infants.	