Project Design Phase-I
Solution Architecture

Date	10 October 2022
Team ID	PNT2022TMID29771
Project Name	Nutrition Assistant Application
Maximum Marks	4 Marks

Solution Architecture:

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. Its goals are to:

- A key challenge in human nutrition is the assessment of usual food intake. This is of particular interest given recent proposals of eHealth personalized interventions. The adoption of mobile phones has created an opportunity for assessing and improving nutrient intake as they can be used for digitalizing dietary assessments and providing feedback. In the last few years, hundreds of nutrition-related mobile apps have been launched and installed by millions of users.

- Smartphone applications are increasingly being used to support nutrition improvement. The source of the information on the website should be appropriately referenced and verifiable.

- A Nutrition Assistant makes sure that patients in a healthcare unit are fed according to their dietary needs.

- They can know the specialization of the food and the assistant can prefers which food items is necessary for the user based on their health conditions.

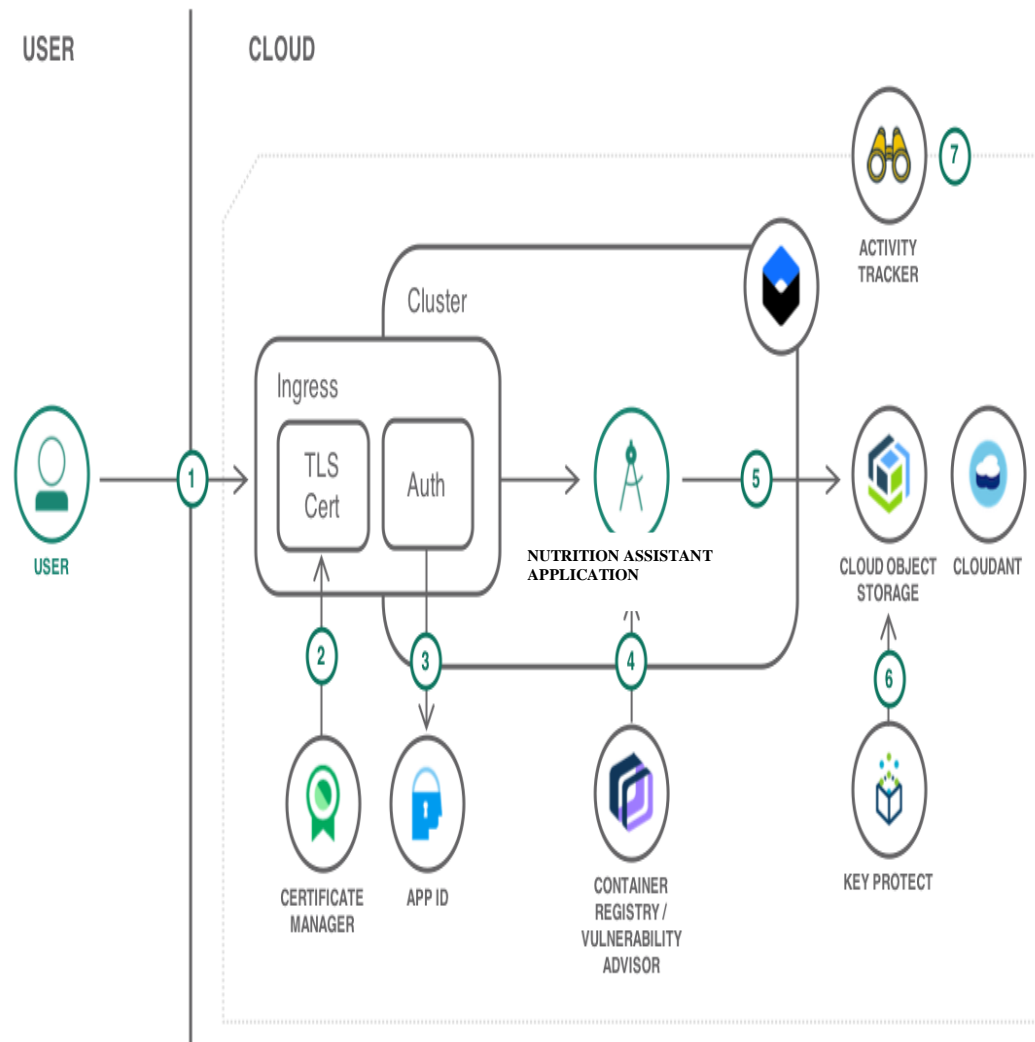**Example - Solution Architecture Diagram:**

Figure 1: Architecture and data flow of the nutrition assistant application

Reference: https://www.researchgate.net/publication/348459867_Dietitian assistant opportunities within the nutrition care process for patients with or at risk of malnutrition a systematic review