System Request

Team: 1. Chunting Liu (cl5503); 2. Kaile Chu (kc4521); 3. Ziyad Fawzy (za2051); 4. Ziad Hassan (zmh6339).

Project Name:

- "Dietaide" - A Smart Diet-Building Platform for Hospital Health Professionals and Patients.

Business Need:

- Dietaide provides health professionals and patients in a select hospital with an intuitive platform to provide and access appropriate diets based on diagnosis.

Functionalities:

- Patients should be able to login to the system with their hospital profile.

- Patients should be able to select specific diagnoses from their hospital record that they find relevant to their current dietary needs, and upload to the system.

- Doctors and other medical professionals should be able to access patients' profile and medical record within the hospital, as well as view their selected "relevant" diagnoses.

- The system should be able to contain a database storing diagnosis-dietary correlations, automatically generate diet recommendations based on the patient's selected diagnoses as well as any specific conditions/severity, and attach them to the patient's profile.

- Doctors and other medical professionals should be able to review generated diets, make adjustments and/or other recommendations as they see fit, and then make approvals.

- Patients should be able to view all generated diets both before and after approval, attached to their own profile.

- Venues such as chat channels should be available for direct patient-doctor communication on diet recommendations.

Expected Value:

- Tangible:
  - Support at least 500 combined personnel of health professionals and patients combined of the hospital

- Intangible:
  - Help patients maintain personal health and raise dietary awareness in a personalized manner.
  - Assist doctors and health professionals in providing non-pharmaceutical health assessment and advice depending on patients' condition and needs.
  - Facilitate direct communication between patients and doctors/health professionals.

Special Issues or Constraints:

- Ensure the security and privacy of the system and user data.

- Possible integration/expansion into other hospitals to ensure completeness of medical records.