Project Design Phase-II

Solution Requirements (Functional)

Date	16 October 2022	
Team ID	PNT2022TMID12805	
Project Name	Personal Assistance For Seniors Who Are Self-Reliant	

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR no	Functional	
	requirement	Sub requirement
FR 1	User Registration	Registration through
		Form Registration
		through Gmail
		Registration through
		LinkedIN
FR 2	User Confirmation	Confirmation via
		Email Confirmation
		via OTP
FR 3	User input	input as program of
		robot
FR 4	Processing of user	Image acquisition,
	input	pre-processing,
		image segmentation
FR 5	Feature extraction of	Machine learning
	user image	algorithms, image
		classification, data
		mapping
FR 6	Result of user input	Display the disease
		name and fertilizer
		lack for the issues

PROJECT FLOW:

Through a web application, users can set the time and name of the medication. The IBM Cloudant DB will house all of the medication-related information. At the chosen time, the online application will communicate the drug name to the IoT device. The device will voice out the medication name after receiving the name using IBM text to speech service to remind the user to take the medication.

To accomplish this, we have to complete all the activities and tasks listed below:

- ➤ Construct and set up IBM Cloud Services
- ➤ Create an IoT device and setup the IBM Watson IoT Platform. Create a Node-RED service.
- ➤ To store information about medications, create a database in Cloudant DB. To create a web application, use the Node-RED Service.
- ➤ Create a Python script to sign up for IBM's IoT platform and produce audio notifications.