PROJECT OBJECTIVES

TEAM ID	PNT2022TMID26620
PROJECT NAME	Personal Assistance for Seniors Who Are Self-Reliant

PROJECT OBJECTIVES

BY THE END OF THIS PROJECT YOU WILL :

- GAIN KNOWLEDGE OF WATSON IOT PLATFORM.
- CONNECTING IOT DEVICES TO THE WATSON IOT PLATFORM AND EXCHANGING THE SENSOR DATA.
- GAIN KNOWLEDGE ON IBM TEXT TO SPEECH SERVICE
- EXPLORE PYTHON CLIENT LIBRARIES OF WATSON IOT PLATFORM, TEXT TO SPEECH SERVICE.
- GAIN KNOWLEDGE ON IBM CLOUDANT DB
- CREATING A WEB APPLICATION THAT INTERACTS WITH IOT DEVICE

PROJECT FLOW :

- USERS CAN CONFIGURE THE MEDICINE NAME, AND TIME THROUGH A WEB APPLICATION.
- ALL THE MEDICINE DETAILS WILL BE STORED IN THE IBM CLOUDANT DB.
- THE WEB APPLICATION WILL SEND THE MEDICINE NAME TO THE IOT DEVICE AT THE DESIRED TIME.
- AFTER GETTING THE MEDICINE NAME THE DEVICE WILL SPEAK OUT THE MEDICINE NAME USING IBM TEXT TO SPEECH SERVICE TO INTIMATE THE USER TO TAKE THE MEDICINE.

TO ACCOMPLISH THIS, WE HAVE TO COMPLETE ALL THE ACTIVITIES AND TASKS LISTED BELOW:

- CREATE AND CONFIGURE IBM CLOUD SERVICES
  - CREATE IBM WATSON IOT PLATFORM
  - CREATE A DEVICE & CONFIGURE THE IBM IOT PLATFORM
  - CREATE NODE-RED SERVICE
  - CREATE TEXT TO SPEECH SERVICE
  - CREATE A DATABASE IN CLOUDANT DB TO STORE MEDICINE DETAILS
- DEVELOP A WEB APPLICATION USING NODE-RED SERVICE

- DEVELOP A PYTHON SCRIPT TO SUBSCRIBE TO THE IBM IOT PLATFORM & GENERATE VOICE ALERTS