Project Design Phase-II

Data Flow Diagrams

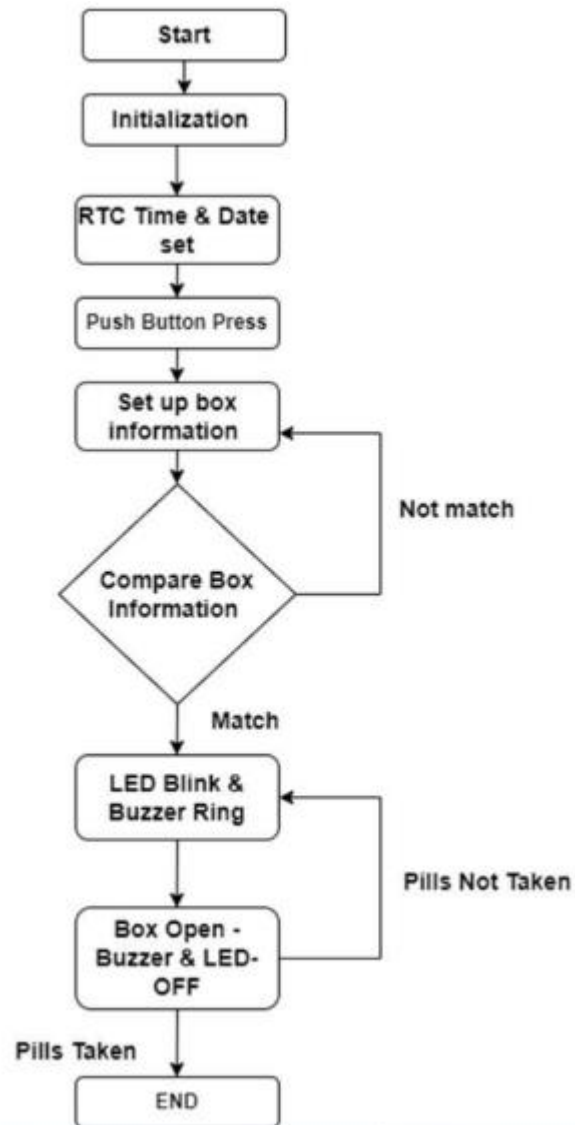| Date	03 October 2022
Team ID	PNT2022TMID31307
Project Name	Personal Assistance for seniorcitizens who are self-reliant
Maximum Marks	4 Marks

Data flow Digrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.
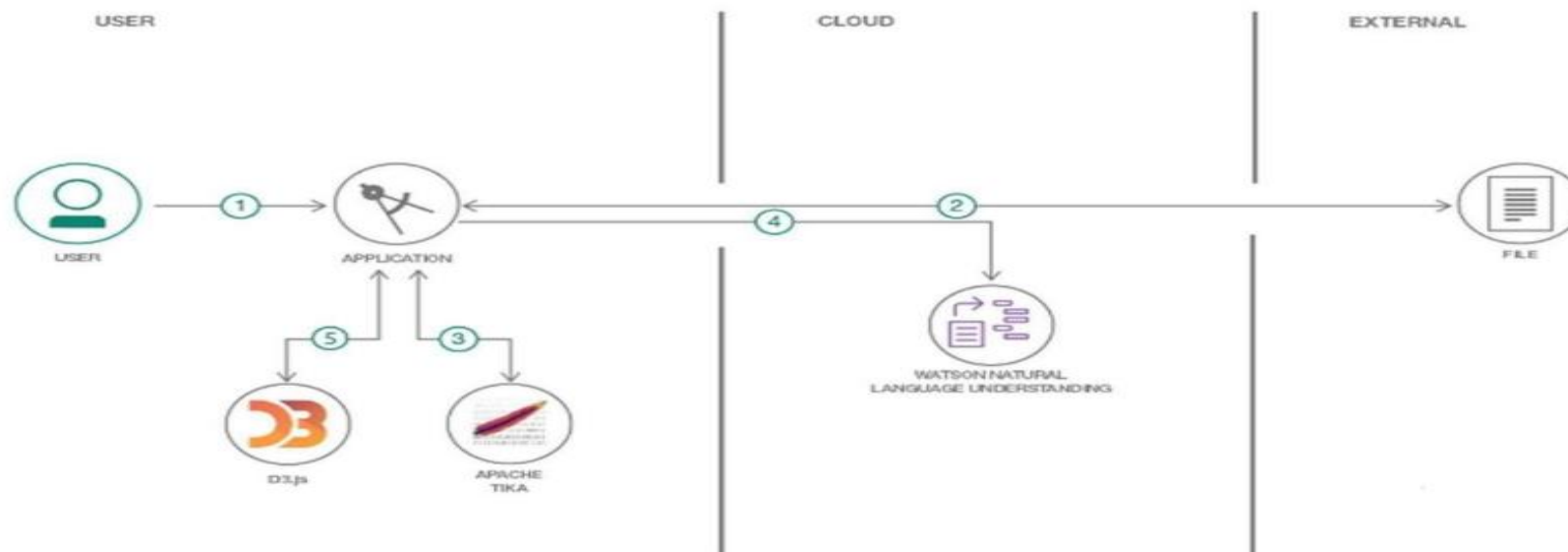
Data flow digram Steps:

1. The user should register on the App by using their mail ID, password and get verified.

2. User can set medicine name and time using our app.

3. The data given as input by the user on mobile application is stored in IBM Cloud database.

4. The IOT device is made to remind the medicine name at correct time by voice commands through IBM Watson platform.

5. The notification is sent to the user to notify the intake of medicine via SMS, which is initiated by mobile application.

```
                    ┌─────────────┐
                    │    Start    │
                    └──────┬──────┘
                           │
                    ┌──────▼──────┐
                    │Initialization│
                    └──────┬──────┘
                           │
                    ┌──────▼──────┐
                    │RTC Time & Date│
                    │     set     │
                    └──────┬──────┘
                           │
                    ┌──────▼──────┐
                    │Push Button Press│
                    └──────┬──────┘
                           │
                    ┌──────▼──────┐
                    │  Set up box │◄──────────┐
                    │ information │           │
                    └──────┬──────┘           │
                           │                  │
                        ◇─────◇          Not match
                       │ Compare │            │
                       │  Box    │────────────┘
                       │Information│
                        ◇─────◇
                           │
                         Match
                           │
                    ┌──────▼──────┐
                    │  LED Blink &│◄──────────┐
                    │ Buzzer Ring │           │
                    └──────┬──────┘           │
                           │             Pills Not Taken
                    ┌──────▼──────┐           │
                    │  Box Open - │───────────┘
                    │Buzzer & LED-│
                    │     OFF     │
                    └──────┬──────┘
       Pills Taken         │
                    ┌──────▼──────┐
                    │     END     │
                    └─────────────┘
```

User stories:

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Senior citizen)	Caretaker	USN-1	As a user, I want to take medicines on time so that I can my health.	I want to take medicine on time.	High	Sprint-1
Customer (Mentally idled patient)	Janitor	USN-2	As a user, my patient should maintain good health by consuming medicines on time.	My patient needs to take medicines at proper time.	High	Sprint-2
Customer (Disabled person)	Smart medicine box	USN-3	As a user, I need to take my medicinesat correct time through nearby person via SMS.	I need to take medicines at accuratetime by notification.	Medium	Sprint-4
Customer (Coma patient)	Virtual med kit	USN-4	As a user, my patient medication timeand name should be loaded in database.	My patient's medicine name and time shouldbe in database list.	High	Sprint-2
Customer (Alzheimer patient)	Digital Medicare	USN-5	As a user, I want to take medicines on time by voice commands.	I want to take medicines on time by voice assist. .	Medium	Sprint-3