**Project Design Phase-II**
**Data Flow Diagram & User Stories**



USER — CLOUD — EXTERNAL

USER → ① → APPLICATION ← ② → FILE

④

⑤ ③

WATSON NATURAL
LANGUAGE UNDERSTANDING

D3.Js

APACHE
TIKA

```
                    ┌─────────────┐
                    │    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     │
                    └─────────────┘
```
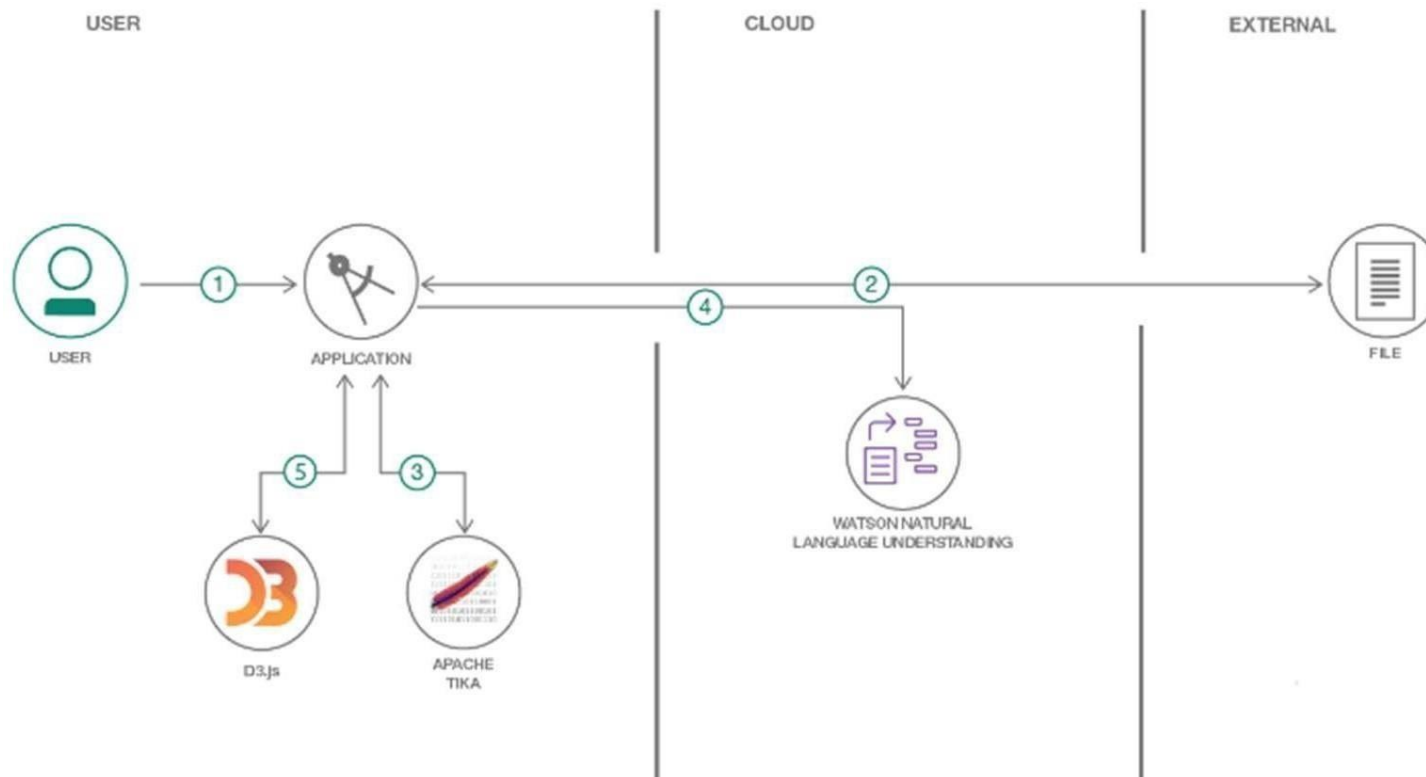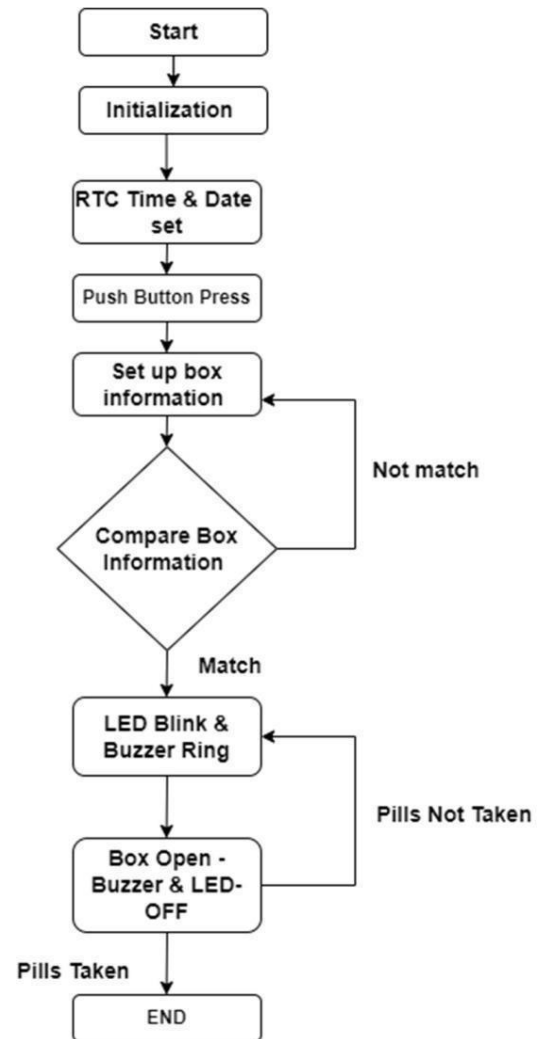
**User Stories**

| 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 and monitor my health | I want to Take Medicines On time | High | Sprint-1 |
| Customer (Alzheimer patient) | Smart medicine box | USN-2 | As a user, I want to take my tablets on time by voice command | I want to take my tablets on time by voice command | High | Sprint-1 |
| Customer (Mentally idled patient) | Caretaker | USN-3 | As a user, my patient needs to take medicines on time and monitoring the activity | My patient needs to take medicines on time | Medium | Sprint-2 |
| Customer (Coma patient) | Caretaker | USN-4 | As a user, my patient medication time and prescription should load in database for upcoming week | My patient medication time and prescription should be in database list | Low | Sprint-4 |
| Customer (Disabled people's) | Smart medicine box | USN-5 | As a user, I need to take my medicine in nearby places with light notification | I need to take my medicine in nearby places with light notification | Medium | Sprint-3 |