Project Design Phase-II
Data Flow Diagram & User Stories

Date	03 October 2022
Team ID	PNT2022TMID14810
Project Name	Project -IoT Based Safety Gadget for Child Safety Monitoring & Notification
Maximum Marks	4 Marks

Data Flow Diagrams:

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 DIAGRAM:

```
                          START

                            │
                            ▼
                  Initializing GSM &GPS
                 │                      │
                 ▼                      ▼
          Button                 Wait for 2-3 mins
   YES    pressed In    NO              │
          the device                    ▼
     │         │             Check all the parameters of
     ▼         │                  the children.
   Send SMS    │                       │
   to parents  │                       ▼
     │         │             Take the necessary
     ▼                             actions.
   Acquire all the
   parameters

     │
     ▼
   Update in
   the server

     │
     ▼
   YES    Reset?    NO
     │               │
     │               ▼
            Wait for one
               minute
```

Child tracker device

Mobile Application
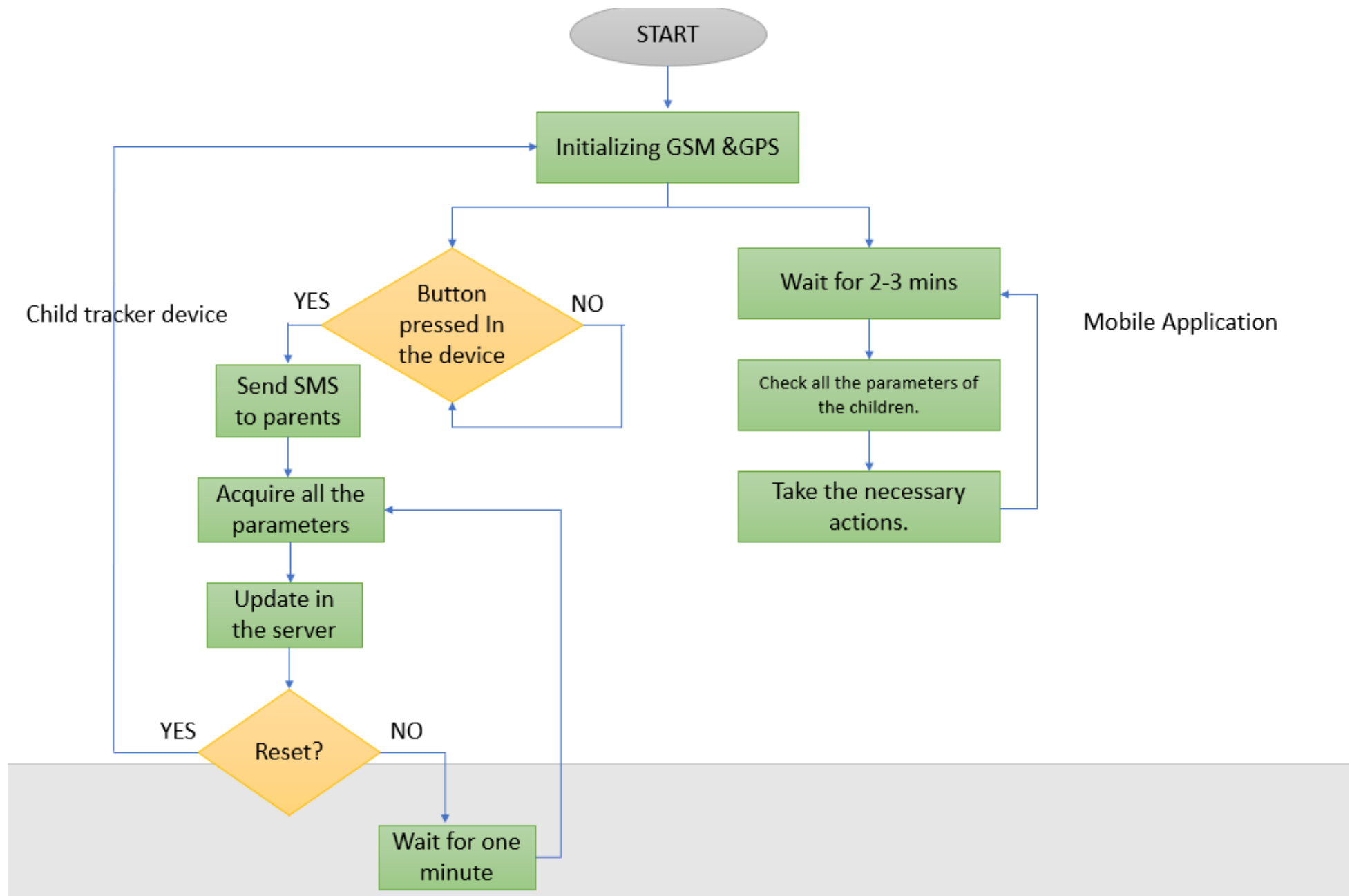
User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration	USN-1 (Father)	As a user, I can register for the application by entering my email, password, and confirming my password. So, I can access my child's location and health parameters.	I can access my account / dashboard.I can receive confirmation email & click confirm	High	Sprint-1
		USN-2 (Mother)	As a user, I can register for the application by entering my email, password, and confirming my password. So, I can access my child's location and health parameters.	I can access my account / dashboard.I can receive confirmation email & click confirm	High	Sprint-1
	Health Monitoring system	USN-3	Heart rate sensor and temperature sensor are used to monitor the health of the child.	I can receive an alert when there are changes.	Medium	Sprint-1
	Live location tracking	USN-4	Safety gadget contains GPS module so that the live location of the child can be tracked	I can receive notification after a specified amount of time.	Medium	Sprint-1
	Dashboard	USN-5	As a user, I can log into the application by entering email & password	I can access my dashboard and account.	High	Sprint-2
Customer (Web user)	Registration	USN-1 (Father)	As a user, I can register for the application by entering my email, password, and confirming my password. So, I can access my child's location and health parameters	I can access my account / dashboard.I can receive confirmation email & click confirm	High	Sprint-1
		USN-2 (Mother)	As a user, I can register for the application by entering my email, password, and confirming my password. So, I can access my child's location and health parameters.	I can access my account / dashboard.I can receive confirmation email & click confirm	High	Sprint-1
	Health Monitoring system	USN-3	Heart rate sensor and temperature sensor are used to monitor the health of the child.	I can receive an alert when there are changes.	Medium	Sprint-1

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	Live location tracking	USN-4	Safety gadget contains GPS module so that the live location of the child can be tracked	I can receive notification after a specified amount of time.	Medium	Sprint-1
	Dashboard	USN-5	As a user, I can log into the application by entering email & password	I can access my dashboard and account.	High	Sprint-2
Customer Care Executive		USN-6	Doesn't need to memorize the specific keywords to send	I can easily use the application	Medium	Sprint-3
Administrator		USN-7	The current state of the sensors can be viewed through app	I can easily know the state of the sensors for efficient process	High	Sprint-4