

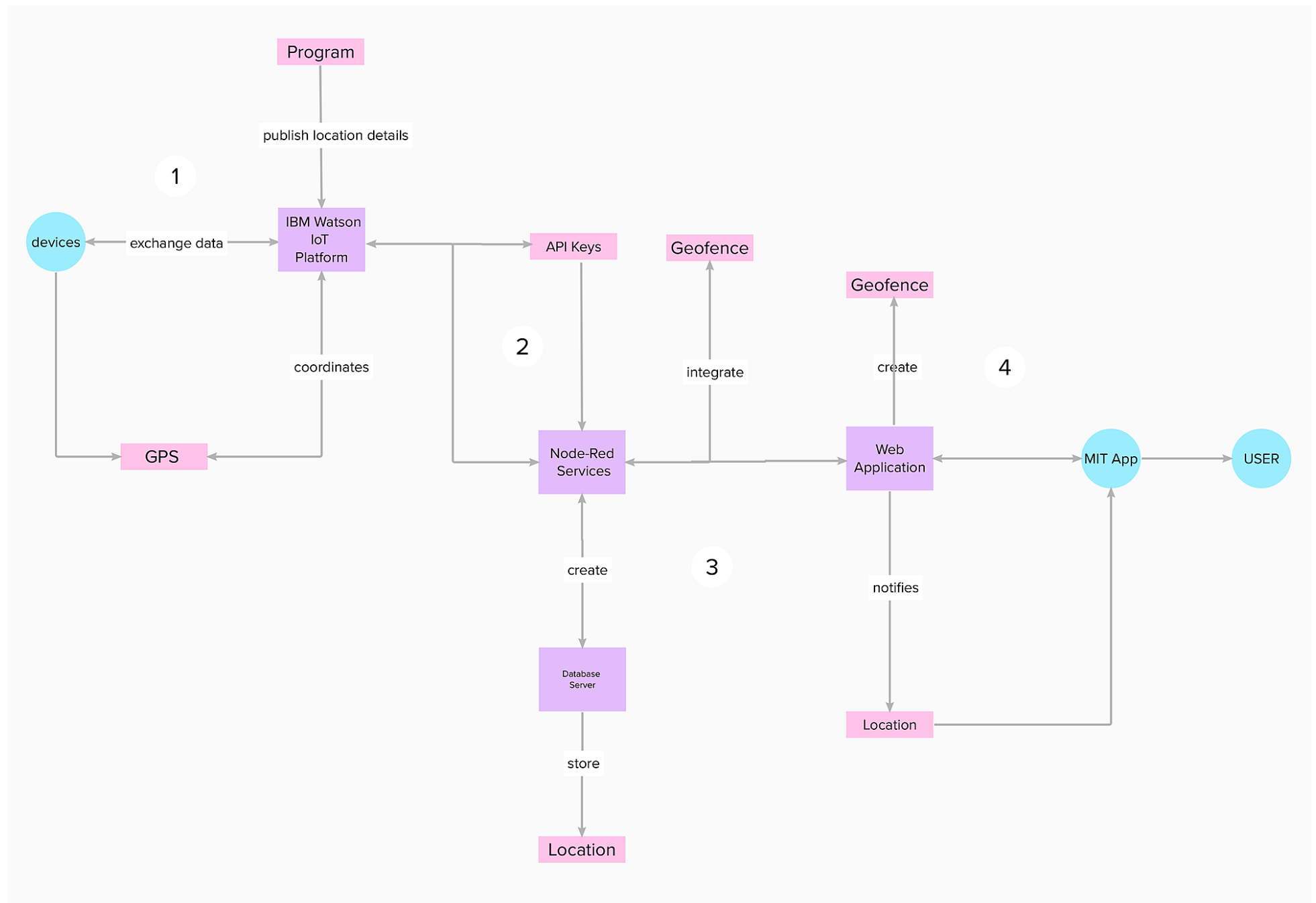
**Project Design Phase-II**  
**Data Flow Diagram & User Stories**

Date	21 October 2022
Team ID	PNT2022TMID47693
Project Name	Project - IoT Based Safety Gadget for Child Safety Monitoring & Notification
Maximum Marks	4 Marks

**Data Flow Diagrams:**

FLows:

- 1.Connecting IoT devices to the Watson IoT platform and exchanging the sensor data.
- 2.The GPS coordinates of the child location will be sent to the IBM IoT platform
- 3.Creates a database in Cloudant DB to store location data.
- 4.Develop a web Application using Node-RED Service.
- 5.The web application will check if the child is inside or outside the geofence
- 6.Notifies and alerts the parents if the child goes out of the geofence.



User Type	Functional Requirement	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint-4
		USN-2	As a user, I will receive a confirmation email once I have registered for the application	I can receive confirmation email & get confirmed	High	Sprint-4
		USN-3	As a user, I can register for the application through browser	I can register & access the dashboard with Google Sign in	Low	Sprint-4
		USN-4	As a user, I can register for the application through Gmail	---	Medium	Sprint-4
	Login	USN-5	As a user, I can log into the application by entering email & password	---	High	Sprint-4
	Dashboard	USN-6	As a user, I can see the desired information on the screen of the phone	I can access my screen	High	Sprint-2
Customer (Web user)	Users	USN-1	As a user, I can integrate all users in this account	I can configure the account, active and inactive	Medium	Sprint-2
	Web applicator	USN-2	As a web applicator, I can form backend server	I can progress the code in the server	Medium	Sprint 3
Customer Care Executive	Security	USN-1	As a customer care, I can secure the data in cloud database	I can secure the data location	High	Sprint-3
Administrator		USN-1	As a user, I can manage the application	I can configure the settings their account.	Medium	Sprint-3
Devices	Simulation	USN-1	As a user, I can connect the required parameter in device.	I can deliver the product	High	Sprint-1
		USN-2	As a user, I can activate the device	I can applicable to the child devices	Medium	Sprint-1
Message Sender	API requests	USN-1	As a message sender, API requests whenever some function is invoked from a device.	I can send or receive the from an application.	High	Sprint-2
	Fast SMS	USN-2	As a sender, I can send bulk messages using the sms	I can receive the messages in device	Low	Sprint-3
Programmer	Software	USN-1	As a programmer, I can ceate the user	To configure the devices	High	Sprint-2

User Type	Functional Requirement	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
			friendly program for ease access by parents			
		USN-2	As a software, I compute coding in devices	To simultaneously run the device	High	Sprint-2
Authenticator	User	USN-1	As a user, I can use identification technique in IoT device	I can eminent the security	High	Sprint-3
	Open Authorization	USN-2	As a user, I uses an open standard communication protocol	It provides tokens to the end users	Medium	Sprint-3
	Identifier	USN-3	User successfully register into the system	It stores the user's unique identification	Medium	Sprint-2
Admin	Admin Authorities	USN-1	In this other end-users are restricted	to add devices into the system	Low	Sprint-4
	User	USN-1	As a user, I can create organizations	The user to login to IoT Platform	High	Sprint-2
		USN-2	As a user, I allows admin to create & edit user accounts	For assigning access rights to user or device group	Medium	Sprint-2