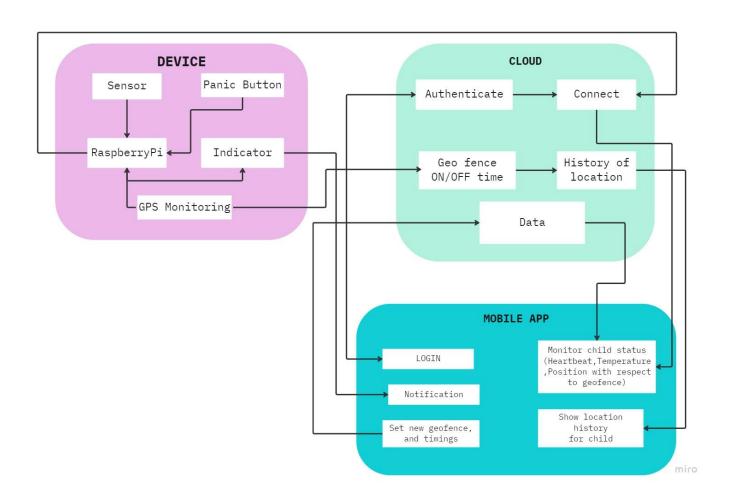
## **Project Design Phase-II**

## **Technology Stack (Architecture Stack)**

Date	21-10-2022	
Team ID	PNT2022TMID27948	
Project Name	IOT BASED SAFETY GADGET FOR CHILD SAFETY MONITORING AND NOTIFICATION	



**Table-1: Components & Technologies:** 

S. No	Component	Description	Technology
1.	User Interface	Mobile App.	MIT app inventor
2.	Application Logic-1	Code development phase	Python
3.	Application Logic-2	Interfacing purpose	IBM Watson Assistant
4.	Cloud Database	Database Service on Cloud	IBM Cloudant
5.	File Storage	Usage of IBM Cloud Storage	IBM Block Storage
6.	Browser based flow editor	Visual programming	Node Red
7.	Infrastructure (server/cloud)	Application deployment on Local Server	Cloud Platform

**Table-2: Application Characteristics:** 

S. No	Characteristics	Description	Technology
1. Open-Source		A template for software development that is	IBM Watson Platform,
	Frameworks	designed by social network.	Node Red.
2.	Security	Login and authentication protect from	IBM Cloud.
	Implementations	unauthorized entries from accessing cloud	
		data.	
3.	Scalable	Presentation Tier (Mobile App):	Mobile app,
	Architecture	Mobile app will act as an interface between	Raspberry Pi,
		the parent and the device.	IBM Cloud.
		Logic Tier (Raspberry Pi):  It will get the data from the sensor and the GPS and it will send it to the cloud.	
		Data Tier (cloud):	
		It will store the data and send it to the	
		mobile app.	
4.	Availability	Always connected to cloud.	IBM cloud.
5.	Performance	Able to send the location of the child time to	Raspberry Pi, Mobile
		time and the sensors will send the biometrics of the child in the app.	app.