Project Design Phase-II

Data Flow Diagram & User Stories

Date	15 October 2022
Team ID	PNT2022TMID27948
Project Name	IoT Based Safety Gadget for Child Safety Monitoring and Notification
Maximum Marks	4 Marks

DATA FLOW DIAGRAMS:
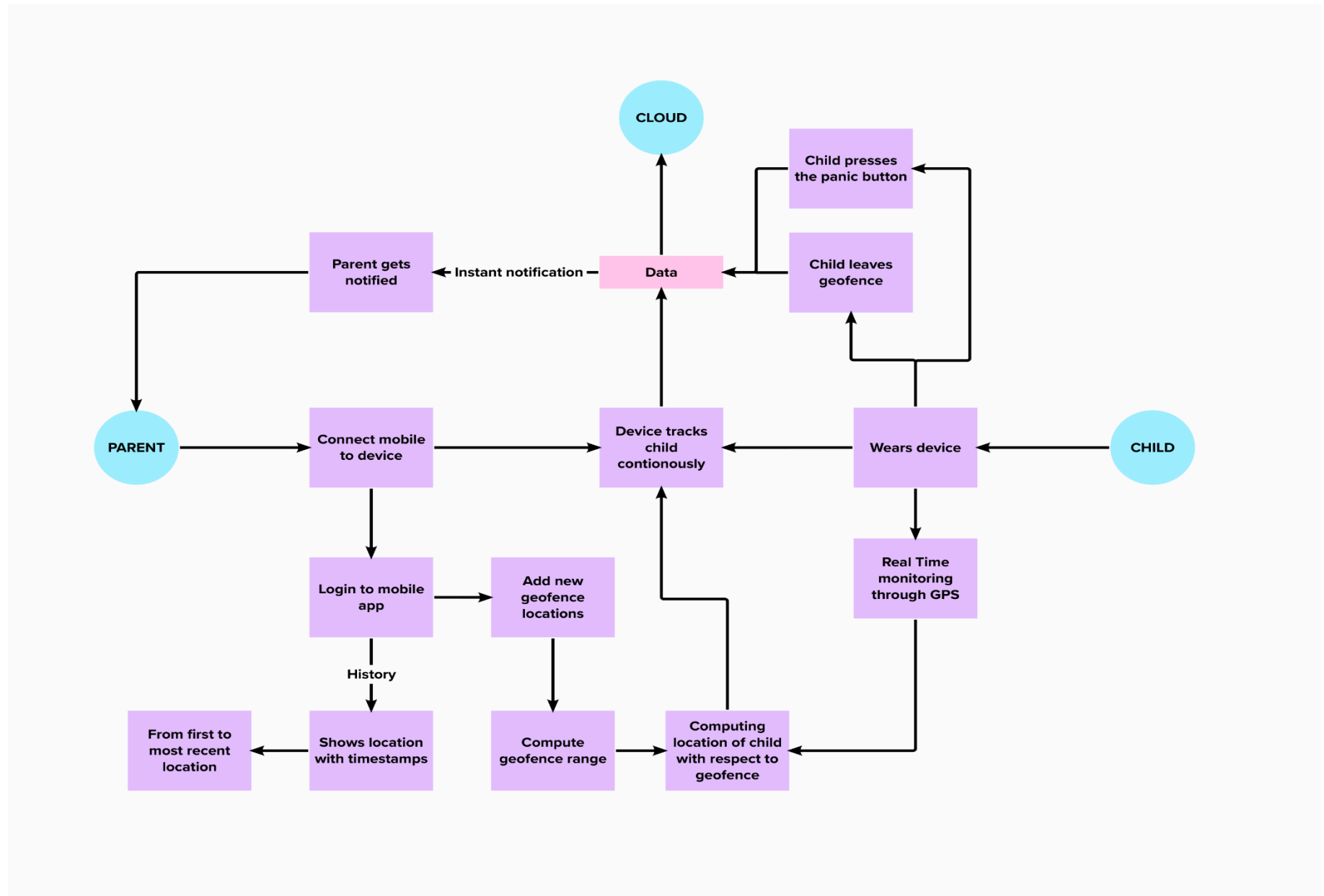
USER STORIES

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Parent/Guardian	Registration	USN-1	As a user, I can register for the application by entering my email, and password, and confirming my password.	I can log in with my email and set a password	High	Sprint-1
Parent/Guardian	Confirmation	USN-2	As a user, I will receive a confirmation email once I have registered for the application	I can receive a confirmation email & click confirm	High	Sprint-1
Parent/Guardian	Login	USN-3	As a user, I can log into the application by entering my email & password	I can log in with my provided credentials	Medium	Sprint-1
Parent/Guardian	Dashboard	USN-4	As a user, I can monitor the child's location 24/7	I can access my account/dashboard	High	Sprint-2
Child	Notification	USN-5	As a user, I should be able to notify my parent and guardian in emergency situations	I will be able to notify my parent	High	Sprint-2
Parent/Guardian	Login	USN-3	As a user, I can register for the application through my Google Account	I can access my account/dashboard	Low	Sprint-2
Parent/Guardian	Application	USN-6	The App should get inputs from the user	The app gets input and responds accordingly	High	Sprint-3

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Parent/Guardian	IoT Device – Watson Communication	USN-7	The device should be integrated with IBM Watson	Watson is integrated fully and the data is stored	High	Sprint-3
Parent/Guardian	Watson – Node RED Communication	USN-8	The data from IBM Watson is sent to Node RED	Node RED is linked to Watson providing data connection	High	Sprint-3
Parent/Guardian	Node-RED-Cloudant DB communication	USN-9	The data from Node-RED should be properly integrated with Cloudant DB	Node-RED is connected fully with Cloudant DB and data is stored	High	Sprint-3
Parent/Guardian	Geofencing	USN-10	The geofencing of the child should be done based on the geographical coordinates	Geofence is created based on real-time coordinates and reflects real geographical data	High	Sprint-4
Parent/Guardian	Data Security	USN-11	Maintaining and making sure the database containing the locations are secure and accurate and is updated constantly.	Data will remain secured	High	Sprint-4