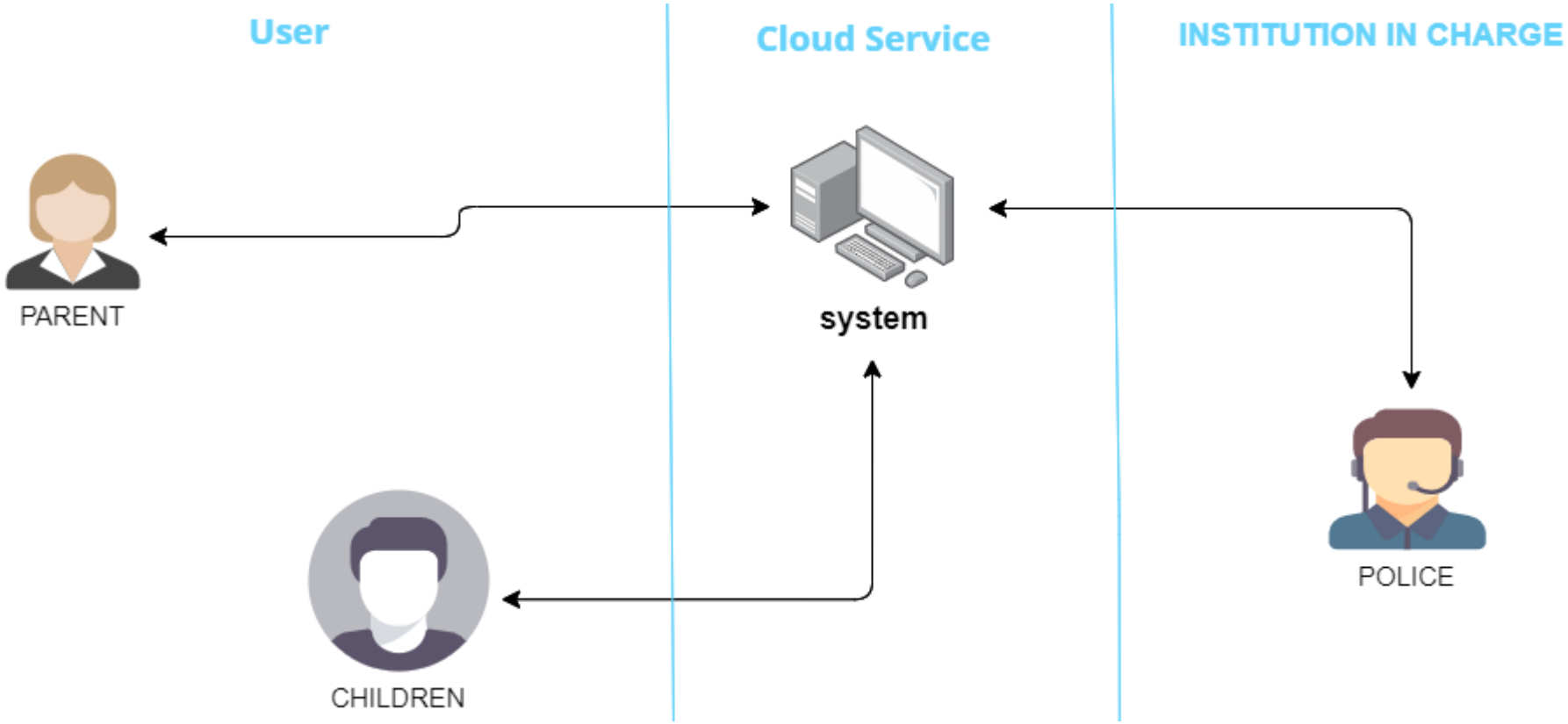
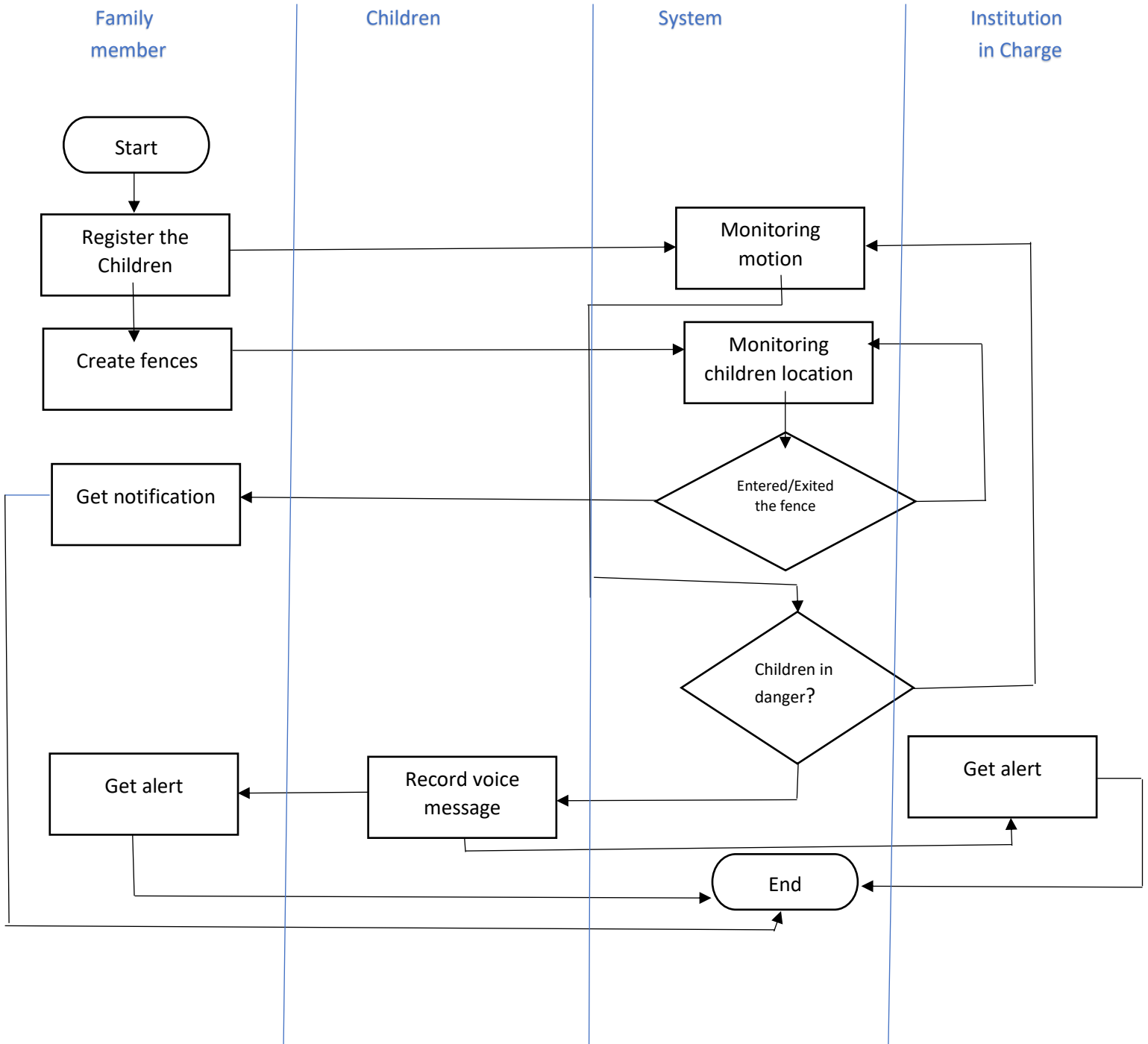
Project Design Phase-II
Data Flow Diagram & User Stories

Date	16 October 2022
Team ID	PNT2022TMID39365
Project Name	IoT based Safety Gadget for Child Safety Monitoring and Notification
Maximum Marks	4 Marks

Data Flow diagram:




Family member
Children
System
Institution in Charge
Start
Register the Children
Create fences
Monitoring motion
Monitoring children location
Entered/Exited the fence
Get notification
Children in danger?
Get alert
Record voice message
Get alert
End

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	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-1
		USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sprint-1
		USN-3	As a user, I can register for the application through Facebook	I can register & access the dashboard with Facebook Login	Low	Sprint-2
		USN-4	As a user, I can register for the application through Gmail		Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password		High	Sprint-1
	Detect Position	USN-6	As a user, I should be able to detect continuously the current position of the user inside Politecnico di Torino hallways.	I can detect the current position	High	Sprint-1
Customer (Web user)	Switch My Guide Cane ON/OFF	USN-7	As a user, I will able to activate/deactivate the vibrating cane anytime during the usage of the system depending on the personal preference of the user.	I can to activate/ deactivate the vibrating cane	High	Sprint-1
Customer Care Executive	Generating Route	USN-8	According to the detected position of user inside a hallway and the specified end destination by the user (inputted as text or voice), the system generates a route between the 2 points according to the shortest path.	I can receive the shortest path of route between the 2 points.	medium	Sprint-1
Administrator	Route Guidance	USN-9	The mobile application communicates the route to the user through voice commands. It notifies of upcoming turns through hallways, doors, and upon arrival to end destination.	I can receive the Route guidance.	medium	Sprint-1
	Update Route	USN-10	It is able to update the route (shortest) continuously according to detected position	I can update when if it is available	High	Sprint-1

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
			of user and dead ends. If encountered with a dead end the system can re-calibrate a new route to the end destination.			