

Project Design Phase-II
Solution Requirements (Functional & Non-functional)

Date	03 October 2022
Team ID	PNT2022TMID10208
Project Name	Project – Protection and pursuing IOT-based smart device for child safety
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Input	Camera, heartbeat sensor
FR-2	Feature extraction	The data from camera is extracted and compared with help of IOT. The output of the sensor is extracted to check health condition of the child.
FR-3	Prediction	Compare to the data stored in API , the output of the gadget can be measured.
FR-4	Classifier	With the help of internet connectivity (software) output from the sensor and camera ,are categorised and classified under the category based on the child activity
FR-5	Announcement	The model designs the output and visualizes the output. Based on the value , we can monitor and detect the child is in safe condition on unsafe condition.
FR-6	Accuracy	The output values are obtained for every set of data received.

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Users can give the input directly in the text bar provided in the interface.
NFR-2	Security	The application does not store any sensitive and personal data of the user.
NFR-3	Reliability	The predictions are made based of verified AI model which has been tests multiple times.
NFR-4	Performance	The accuracy is high and it can predict accurately than existing any traditional detection method.
NFR-5	Availability	It is available and compatible on all platform and devices.
NFR-6	Scalability	The application can be used among all people across worldwide and adapt elsewhere.