**PROJECT DESIGN PHASE -II**

**IOT BASED CHILD SAFETY AND MONITORING**

Functional requirements:

Following are the functional requirements of proposed solution.

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| FR NO | FUNCTIONAL REQUIREMENT (epic) | Sub requirement (story/sub task) |
| FR-1 | User authentication | User must access to their mobile phones and communicate via sms mode |
| FR-2 | Send keyword | Parents send special keywords such as location , images, temperature keys |
| FR-3 | Geofence and cloudant DB | Via geofence system track and find real time location of the children and capture images surrounded by. |
| FR-4 | Alarm | By buzzering alarm make public alert and use SOS light |

Non functional requirements:

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

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| NFR NO | Non functional requirement | Description |
| NFR-1 | Usability | Child safety and monitoring gadget help working parent to take care off their children by monitoring for the whole day and send SMS when they step into uncrowded or unsafety places. |
| NFR-2 | Security | For little children getting lost into major crowded areas .To  Reduce the risk this gadget is very useful |
| NFR-3 | Reliability | The prediction of values is accurate ,information from the device can be trusted by the customers without any uncertainity |
| NFR-4 | Performance | Immediate prediction of location, image , temperature .fast response time, easy to interact with the children, output can be rendered with in second |
| NFR-5 | Availability | Can be used in any cell phone does not require any expensive mobile phones |
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| NFR-6 | Scalability | This system provide additional informations such as heart beat and monitoring the respiratory system of children. |