

# Project Development –Delivery plan sprint-4

IoT Based Safety Gadget for Child Safety Monitoring & Notification

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## Creating Cloudant DB and integrating Node-Red with the Web UI

### Create Cloudant DB:

The screenshot shows the Cloudant 'Databases' page. A sidebar on the left contains navigation icons. The main area has a 'Databases' header with a 'Database name' dropdown, a 'Create Database' button, and a JSON icon. Below this is a table titled 'Your Databases'.

Name	Size	# of Docs	Partitioned	Actions
childssafety	14 bytes	1	No	[Icons: Edit, Lock, Delete]
childssafetydb	15 bytes	1	No	[Icons: Edit, Lock, Delete]

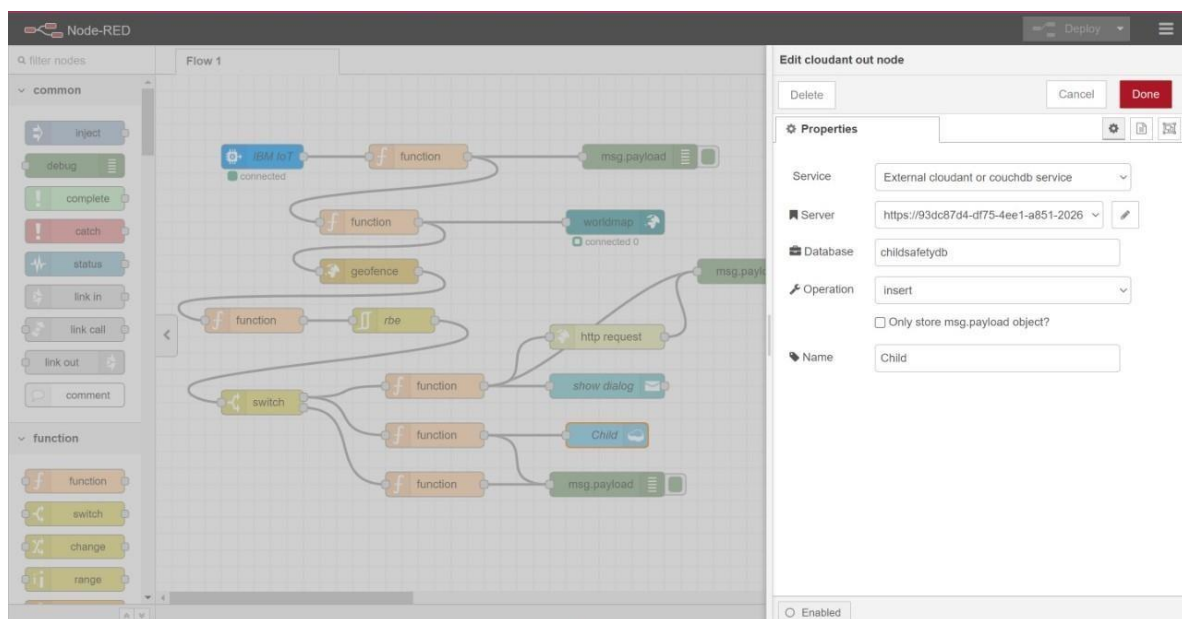
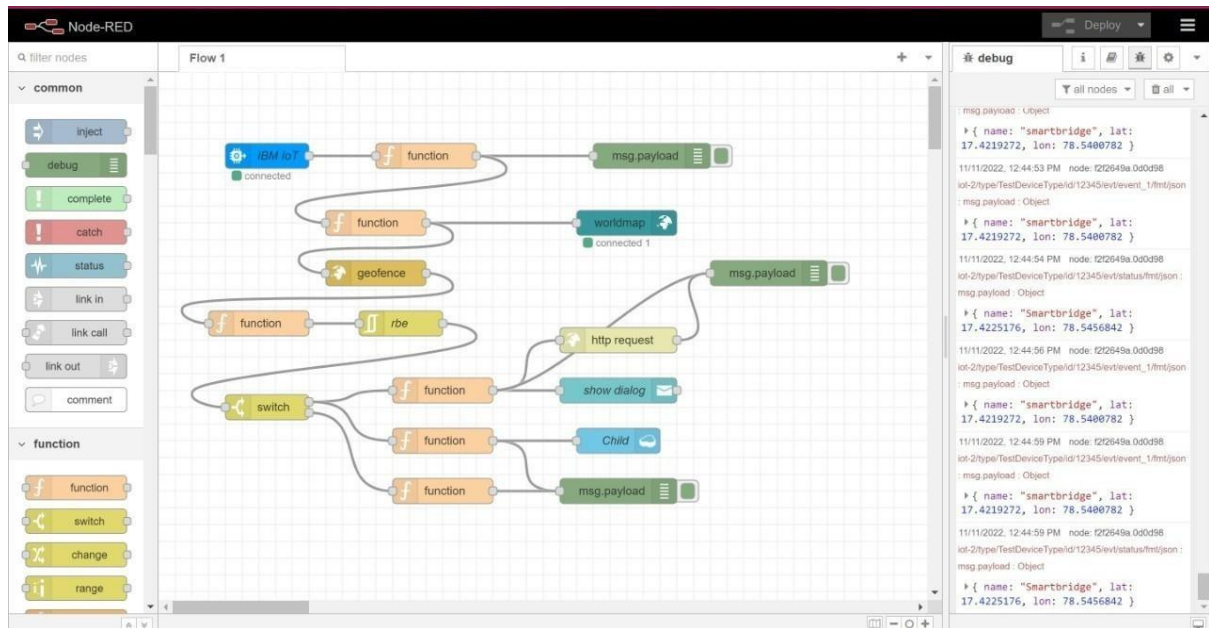
At the bottom, it says 'Showing 1-2 of 2 databases. Databases per page: 20' with pagination controls.

The screenshot shows the 'childssafetydb' document view. The sidebar on the left has a 'childssafetydb' header and a list of actions: 'All Documents', 'Query', 'Permissions', 'Changes', and 'Design Documents'. The main area has a 'Document ID' dropdown, 'Options', a JSON icon, and a 'Create Document' button. Below these are tabs for 'Table', 'Metadata', 'JSON', and 'JSON'.

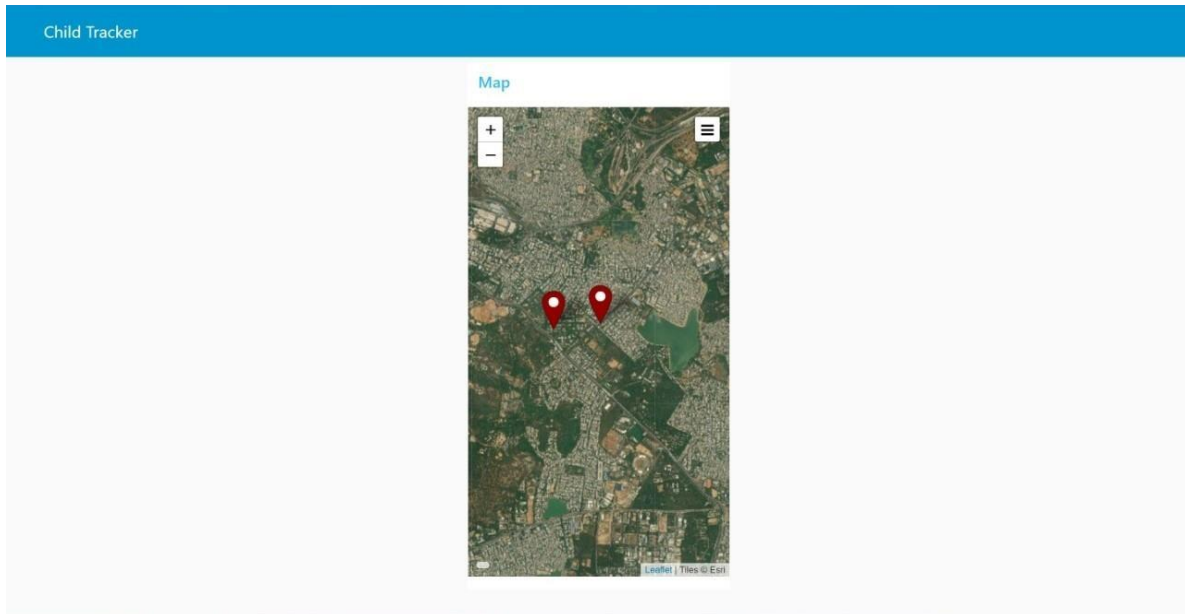
Id	key	value
<input type="checkbox"/>	e375b703e3d589d1a5e0108d5c7fd2...	e375b703e3d589d1a5e0108d5c7fd2... {"rev": "2-3f59b999d6fe5a17091eba..."}

At the bottom, it says 'Showing document 1 - 1. Documents per page: 20' with navigation arrows.

## Node-Red Service with Cloudant Database:

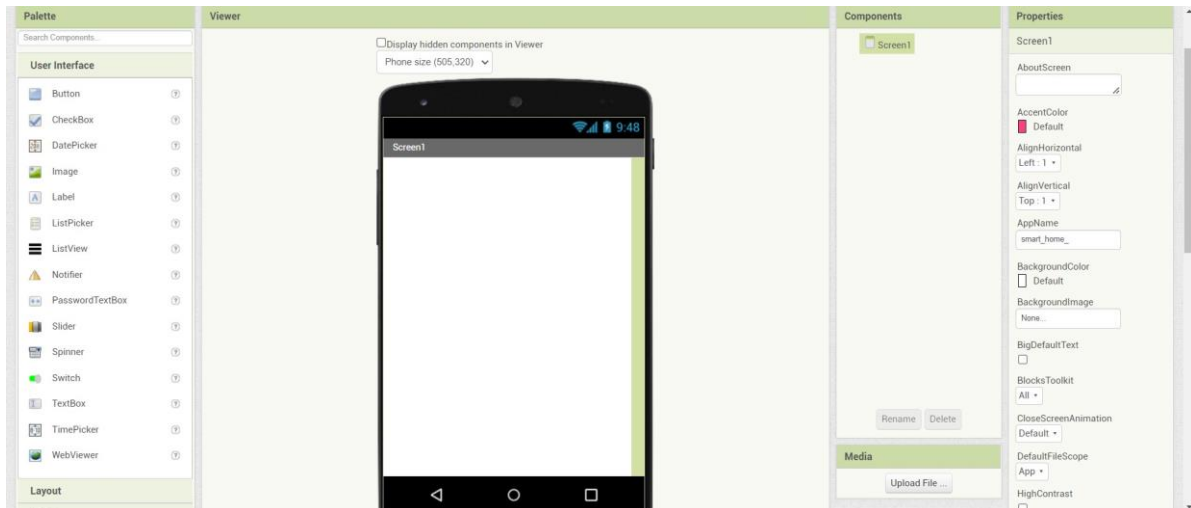


## Node-Red Dashboard(Web ui):

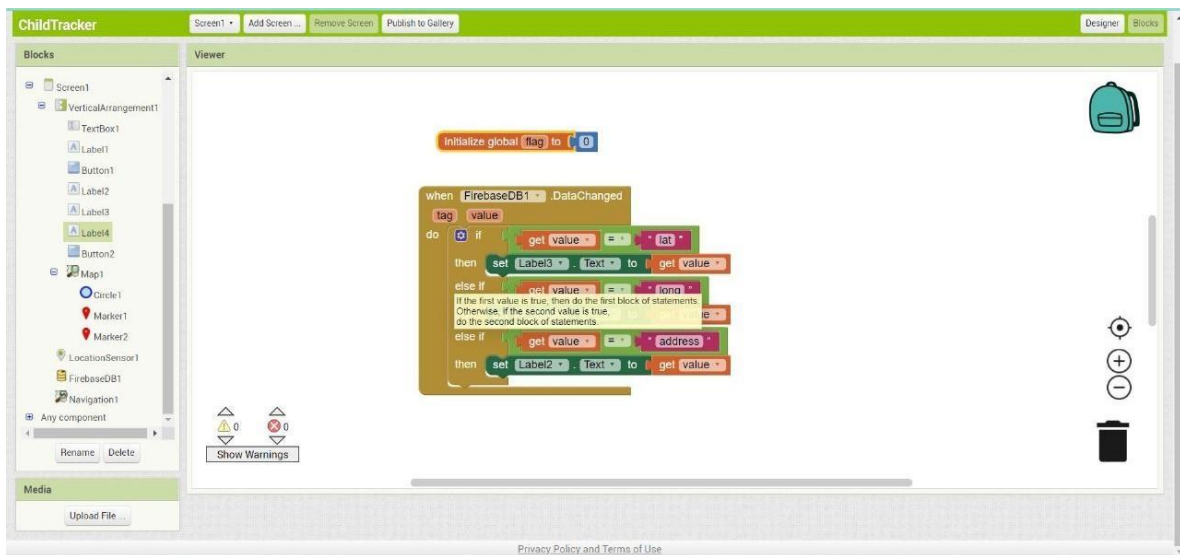


# Creating the MIT app and Showing the child's location

## Create App in MIT App inventor:



## Block Configuration:



ChildTracker Screen1 Add Screen ... Remove Screen Publish to Gallery Designer Blocks

Blocks

- Screen1
  - VerticalArrangement1
    - TextBox1
    - Label1
    - Button1
    - Label2
    - Label3
    - Label4
    - Button2
  - Map1
    - Circle1
    - Marker1
    - Marker2
  - LocationSensor1
  - FirebaseDB1
  - Navigation1
- Any component

Media

Upload File

Viewer

when Button2.Click

do

- set Label3.Text to 17.4219272
- set Label4.Text to 78.5488783
- call Map1.PanTo
  - latitude LocationSensor1.Latitude
  - longitude LocationSensor1.Longitude
  - zoom 15

when Navigation1.GoDirections

directions points distance duration

do

- set Navigation1.StartLocation to Marker1
- set Navigation1.EndLocation to Marker2
- call Navigation1.RequestDirections

Show Warnings

Privacy Policy and Terms of Use

ChildTracker Screen1 Add Screen ... Remove Screen Publish to Gallery Designer Blocks

Blocks

- Screen1
  - VerticalArrangement1
    - TextBox1
    - Label1
    - Button1
    - Label2
    - Label3
    - Label4
    - Button2
  - Map1
    - Circle1
    - Marker1
    - Marker2
  - LocationSensor1
  - FirebaseDB1
  - Navigation1
- Any component

Media

Upload File

Viewer

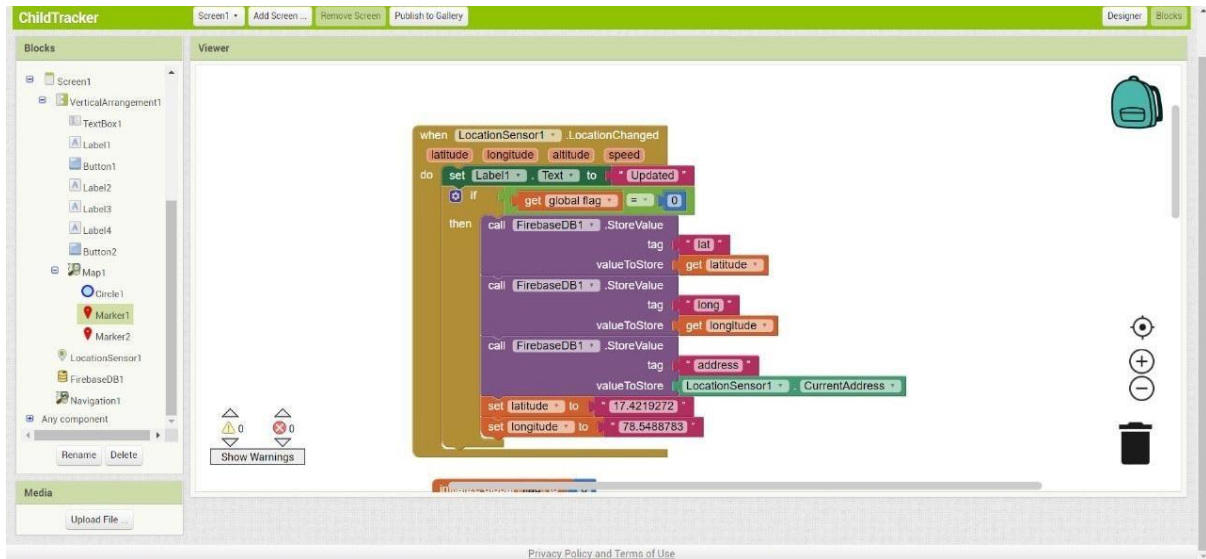
when Button1.Click

do

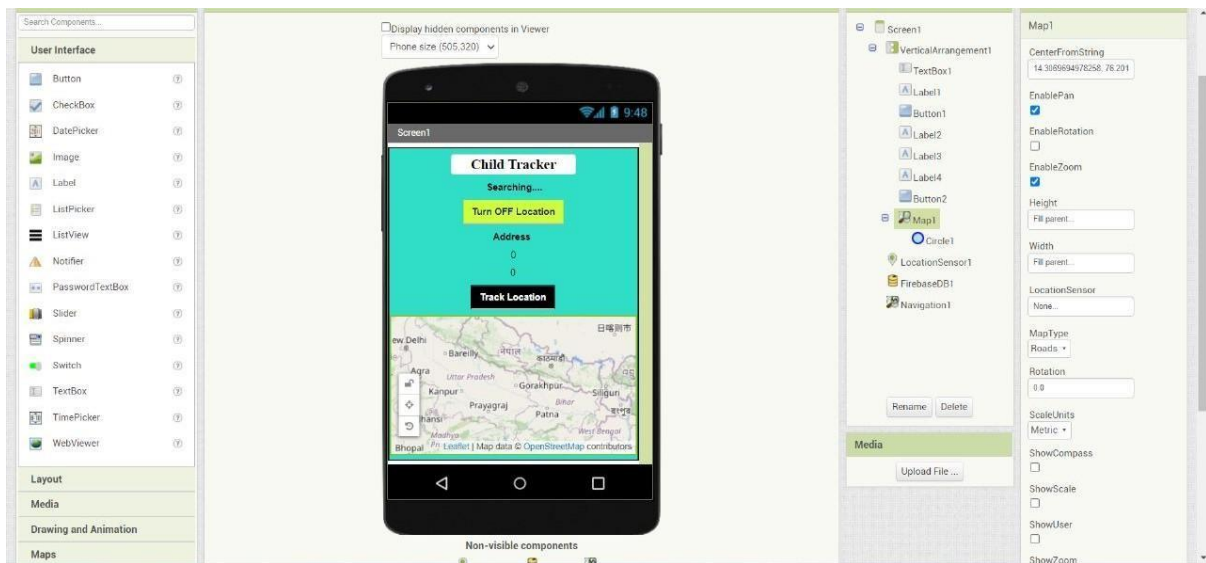
- if get global flag = 0
- then
  - set global flag to 1
  - set Button1.BackgroundColor to red
  - set Button1.Text to Turn ON Location
- else
  - set global flag to 0
  - set Button1.BackgroundColor to green
  - set Button1.Text to Turn OFF Location

Show Warnings

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## Output(App inventor):





## Location Status:

