



**GOVERNMENT COLLEGE OF ENGINEERING
CHETTIKARAI, DHARMAPURI**



Safety Gadget for Child Safety Monitoring and Notification

IBM NALAIYATHIRAN

**Project Development –Delivery of Sprint 3
Creating Cloudant DB and connecting to Node-Red
Create App in MIT App inventor**

TITLE	IOT based child safety gadget for child safety monitoring and notification
DOMAIN NAME	INTERNET OF THINGS
TEAM ID	PNT2022TMID41271
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Create Cloudbant DB:

Databases

Your Databases

Name	Size	# of Docs	Partitioned	Actions
childsafety	0.6 MB	15767	No	
noderedknnqv20221107	34.3 KB	4	No	

Showing 1–2 of 2 databases. Databases per page 20

The screenshot displays the IBM Cloudant dashboard for a database named 'childsafety'. The interface is divided into a sidebar on the left and a main content area. The sidebar contains navigation links: 'All Documents', 'Query', 'Permissions', 'Changes', and 'Design Documents'. The main content area shows a table of documents. The table has three columns: 'id', 'key', and 'value'. Each row represents a document with a unique ID and key, and a value that is a JSON object containing a 'rev' field. The status bar at the bottom indicates 'Showing document 1 - 20' and 'Documents per page: 20'.

id	key	value
000245d59da9ac61433e5f634f20f9...	000245d59da9ac61433e5f634f20f9...	{"rev": "1-e6b811f57ea970b95eac7..."}
000245d59da9ac61433e5f634f213...	000245d59da9ac61433e5f634f213...	{"rev": "1-5bd67a9dd5077c26203e..."}
000245d59da9ac61433e5f634f4fe7df	000245d59da9ac61433e5f634f4fe7df	{"rev": "1-ffedff57c99ae860cde31c3..."}
000245d59da9ac61433e5f634f506...	000245d59da9ac61433e5f634f506...	{"rev": "1-57b844b01fae28e70630e..."}
000245d59da9ac61433e5f634f508...	000245d59da9ac61433e5f634f508...	{"rev": "1-83bacc72c450f237855a7..."}
000245d59da9ac61433e5f634f50f5...	000245d59da9ac61433e5f634f50f5...	{"rev": "1-452b9a0e1fe9db26c9264..."}
000245d59da9ac61433e5f634f512...	000245d59da9ac61433e5f634f512...	{"rev": "1-476cd41ad5e8c74f5b2c6..."}
000245d59da9ac61433e5f634f514...	000245d59da9ac61433e5f634f514...	{"rev": "1-38b023705962b5ee4cdfa..."}
000245d59da9ac61433e5f634f51d...	000245d59da9ac61433e5f634f51d...	{"rev": "1-83bacc72c450f237855a7..."}
00078610ea6fd9b443a4b58549619...	00078610ea6fd9b443a4b58549619...	{"rev": "1-476cd41ad5e8c74f5b2c6..."}

Node-Red Service with Clodant DB:

The screenshot shows the Node-RED web interface in a browser. The main workspace displays a flow named 'Flow 1'. The flow starts with an 'IBM IoT' node (connected). It branches into several function nodes: 'function', 'temp', 'temp_status', 'latitude', 'your_child_zone', and 'longitude'. These function nodes are connected to various output nodes: 'child safety', 'msg.payload', 'gauge', 'Temperature', 'temp_status', 'Latitude', 'Child Zone', 'Longitude', and 'worldmap'. The 'worldmap' node is also connected. The right sidebar shows the 'debug' console with a log of messages received from the IoT node, including temperature, latitude, longitude, and child zone data.

Create App in MIT app inventor:

The screenshot shows the MIT App Inventor web interface. The central canvas displays a mobile app design for a smartphone. The app has a 'WELCOME' screen with a blue background, a map, and a hand holding a smartphone. The left sidebar shows the 'User Interface' palette with various components like Button, CheckBox, DatePicker, Image, Label, ListPicker, Notifier, PasswordTextBox, Slider, Spinner, Switch, TextBox, TimePicker, and WebViewer. The right sidebar shows the 'AboutScreen' properties panel, including settings for AccentColor, AlignHorizontal, AlignVertical, AppName, BackgroundColor, BackgroundImage, BigDefaultText, BlocksToolkit, CloseScreenAnimation, DefaultFileScope, HighContrast, and Icon. The bottom status bar shows the phone size (505,320) and the time (10:46 PM 11/10/2022).

