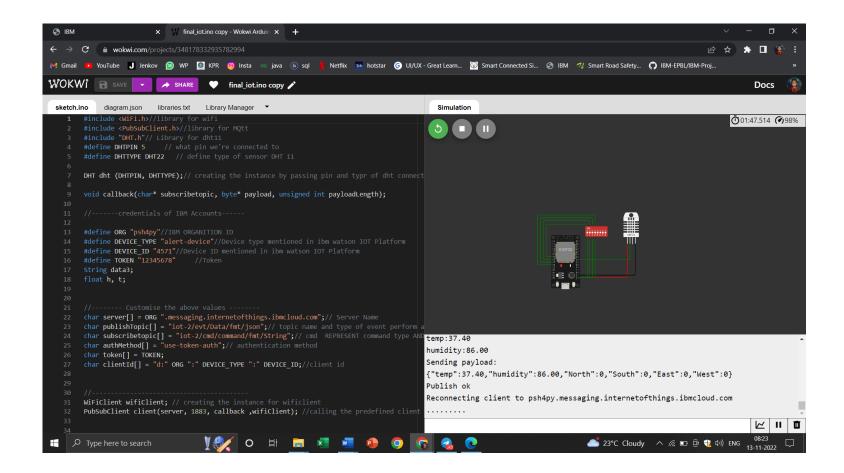
Project Development PhaseSprint III

Date	15 November 2022
Team ID	PNT2022TMID29156
Project Name	Signs with Smart Connectivity for better road safety

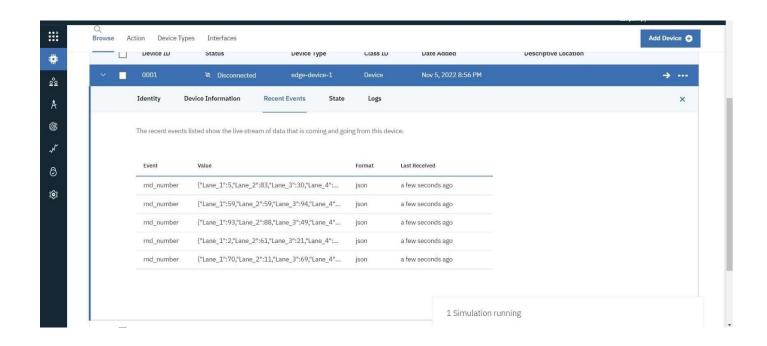
Sprint Targets:

Sprint	Functional Requirement (Epic)	User Story Number	UserStory/Task	Story Points	Priority	Team Members
Sprint-3	Login	USN-5	As an administrator , I should have an account of the website	7	Low	Gokul Karvannan Kannan Sureshbabu
Sprint-3	Dashboard	USN-6SSS	As an admin, I should be able to monitor and add sign nodes	13	Medium	Gokul Karvannan Kannan Sureshbabu

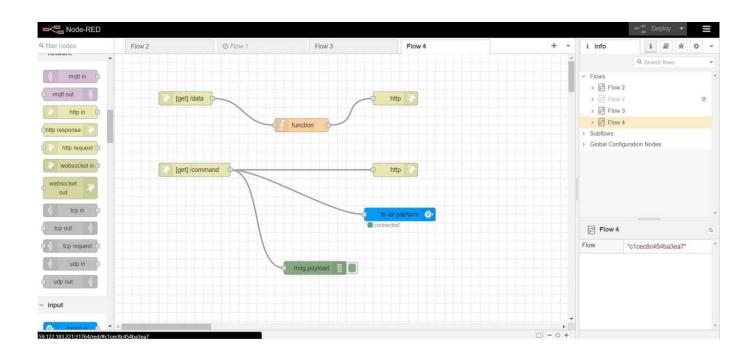
Wokwi Simulation: https://wokwi.com/projects/308491660191188

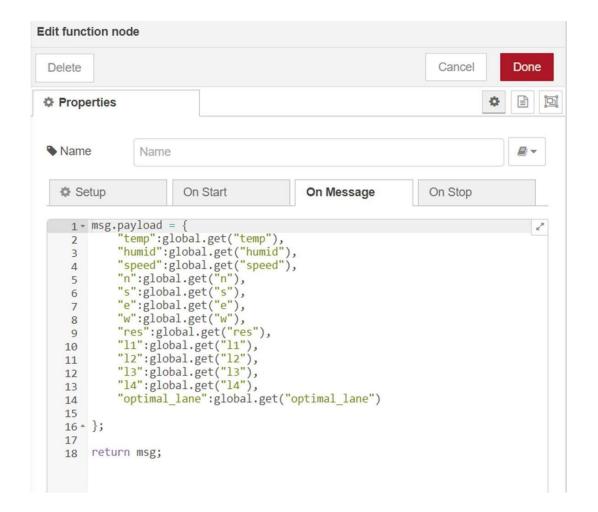


IoT Device – IoT Platform



Node Red – Connect with MIT AppInventor





Output from Node red:

```
← → C A Not secure | 159.122.183.221:31764/data

G Google YouTube → MATLAB Document... LaTex Base | Online... ECE Notes Seniors' → Download - Knowl... see eSim  Sanskrit Word List.... (

"temp":14.9, "humid":86, "speed":80, "n":0, "s":0, "e":0, "w":1, "res": "West", "l1":69, "l2":99, "l3":19, "l4":40, "optimal_lane": "Lane 3"}
```

MIT App Inventor UI design:



MIT App Inventor Backend design:

```
when Clock1 .Timer
do set (Web11 . Unit to http://159.122.183.221:31764/data
    call (Web112) .Get
when Web1 .GotText
 url (responseCode) responseType (responseContent
do set temp data . Text to look up in pairs key temp
                                            pairs call Web1 JsonTextDecode
                                                                      jsonText | get responseContent -
                                        notFound * * * *
    set (humid data . Text to look up in pairs key humid)
                                             pairs call (Web112 .JsonTextDecode
                                                                      jsonText get responseContent •
                                         notFound " " " "
    set speed data . Text to look up in pairs key speed
                                            pairs call Web1 JsonTextDecode
                                                                       jsonText get responseContent •
                                         notFound | * 🗖 *
    set direction data . Text to look up in pairs key res
                                              pairs call Web1 JsonTextDecode
                                                                        jsonText get responseContent •
                                           notFound | " | "
    set optillane data . Text to look up in pairs key coptimal lane
                                              pairs call (Web1 JsonTextDecode
                                                                         jsonText get responseContent ·
                                           notFound 1 101
    set (ane_data . Text to ( ) join ( look up in pairs key ) * (1) *
                                                    pairs call Web1 JsonTextDecode
                                                                              jsonText | get responseContent -
                                                 notFound | " | "
                                        look up in pairs key 🧗 📜 🔭
                                                   pairs call (Web1 JsonTextDecode
                                                                              jsonText | get responseContent •
                                                 notFound • * • *
                                         . .
                                        look up in pairs key 🔭 " [3] 🔭
                                                    pairs call (Web1122 .JsonTextDecode
                                                                              jsonText | get responseContent -
                                                 notFound * * *
                                          ш.
                                        look up in pairs key 🧗 🏰 🔭
                                                    pairs call (Web112 .JsonTextDecode
                                                                              jsonText | get responseContent -
                                                 notFound * * *
```

Sprint 3 delivery:

(OUTPUT) Display from MIT App:

