

Project Report
On
SMART TRAVEL PLAN

Submitted by:

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1. INTRODUCTION

1.1 Overview

The project, Smart Travel Plan is to allow the passengers make their travel safe during the pandemic. It is proposed to use the resources like NodeMCU, IBM Cloud services, MIT app inventory.

This project will be implemented by building an intelligent app which schedules the timings of transportation based on the GPS location of the driver of the vehicle. The app is also facilitated with the feature to book the seat in advance ensuring to avoid the over occupancy of public transport/bus stations/railway stations etc and enabling one to properly plan their travel. We even have an ML model based on every day data to predict the probability of availability for the users.

For better safety measures, the app would check the health details of every user just before he/she boards a public vehicle to ensure that no one sick is boarding the vehicle. Information regarding why a person wants to travel shall be asked on the app and prioritized accordingly. Those who have emergency and important situations can get to travel first.

1.2 PURPOSE

Currently, the Pandemic situation seems like never ceasing one. Many fields like economic, educational, IT sector and transport sector etc has faced crumbling crisis. Regardless of the pandemic people still have to choose to travel to earn and get their basic needs, and still care of them not getting infected with meticulous care.

The purpose of our project is to devise an efficient way to ensure the continuous working of the public transportation during the pandemic and let people continue with their daily life with less worry and contribute what is possible from making the economy crash. The features provided makes the transport sector more advance and can contribute a lot in future

2. LITERATURE SURVEY

2.1 EXISTING PROBLEM

People are refusing to travel in public transport because of

1. Lack of measures and safety guides available
2. High risk of getting infected because of not knowing the fellow passenger's health conditions
3. Difficulty in maintaining social distance

This leads large section of group to chose to travel in their own transport and this switch in modes of transport may not be smooth in cities. Because of lack of participation in the economic activity, people's livelihood is threatened.

2.2 PROPOSED SOLUTION

In order for the transport sector to run on its feet back again, we have to ensure the passengers that both safety and security are ensured in their travel. This is done by

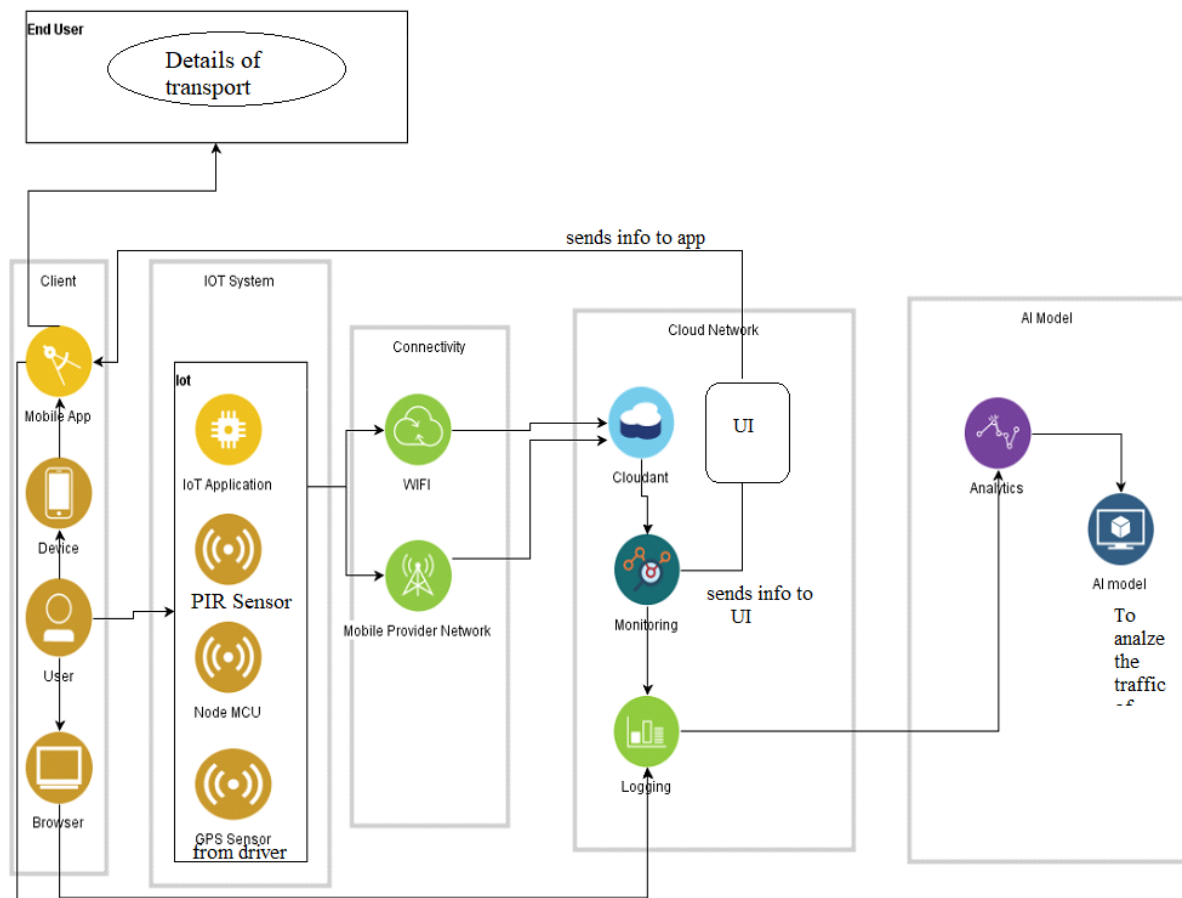
1. Allowing the passengers know prior their journey about the availability of vacant seats
2. Allowing them to book the seats in advance
3. Allowing then to know the location of the transport, so they can arrive on time and avoid being held in public places for long.

All this is ensured by capturing the count of the people using PIR sensor and sending this information to IBM Cloud using WIFI module. The location of the bus is shared by the driver to the cloud. Using Node red, we create a UI by analyzing the information. The UI allows the users to know the details of the transport and allow them to book a seat in advance. It features the use of Assistant to solve the queries of the users too.

The information gathered in cloud is used to make a ML model to predict the details of the transport and helps in drawing a plan for the number of trips to be made by the transport in week days and weekends.

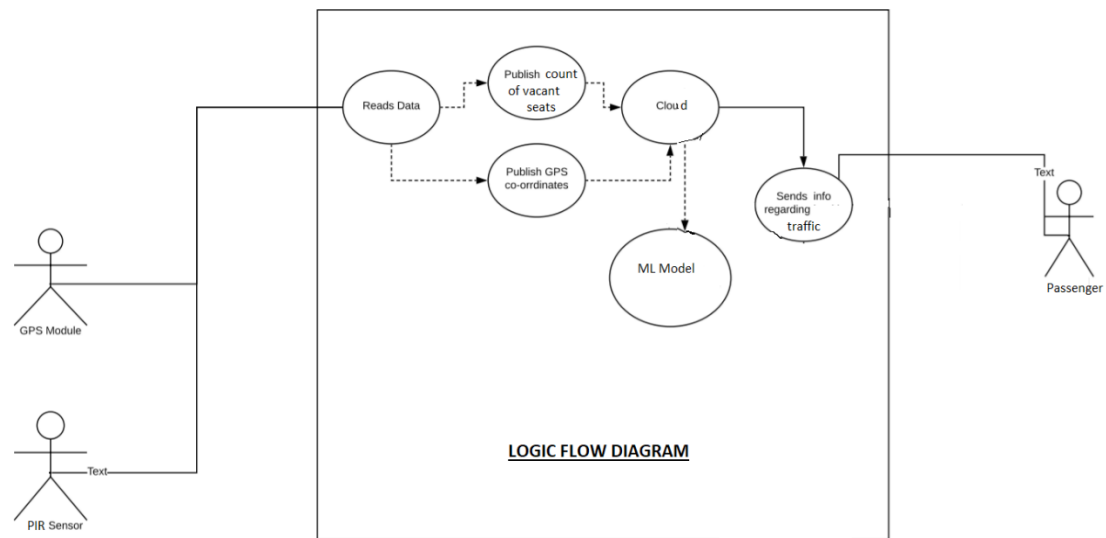
3. THEORITICALANALYSIS

3.1 BLOCK DIAGRAM

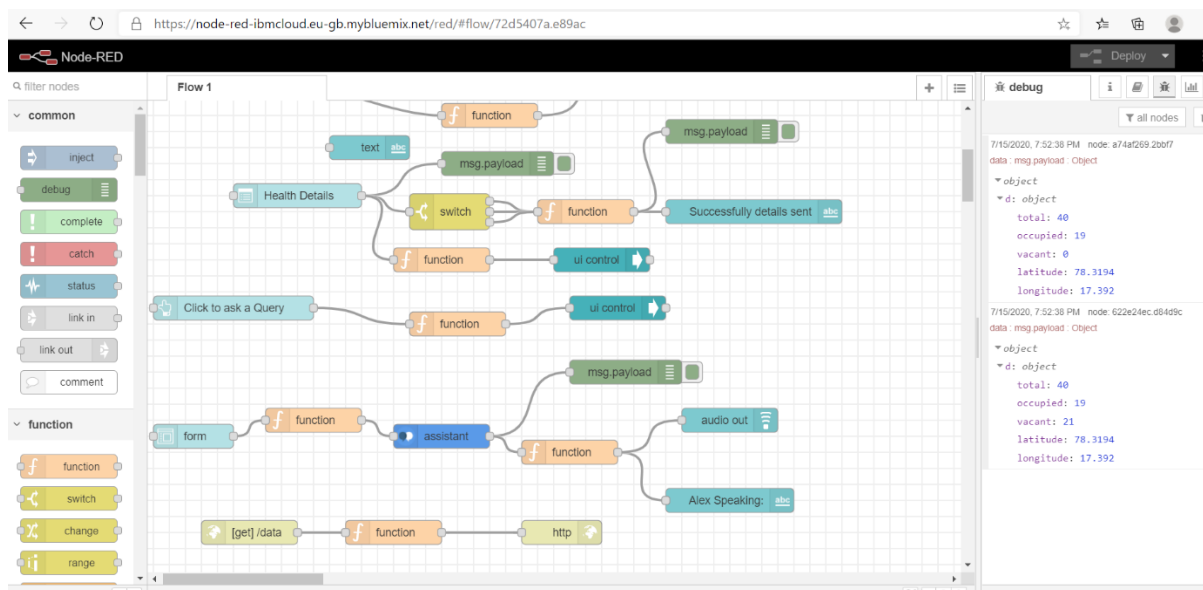


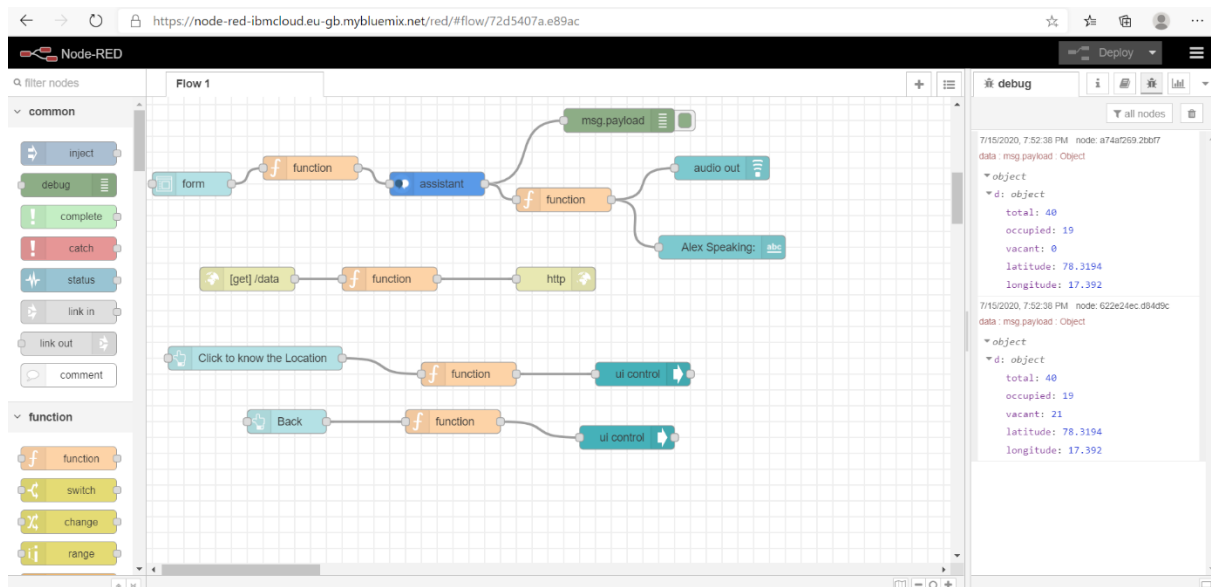
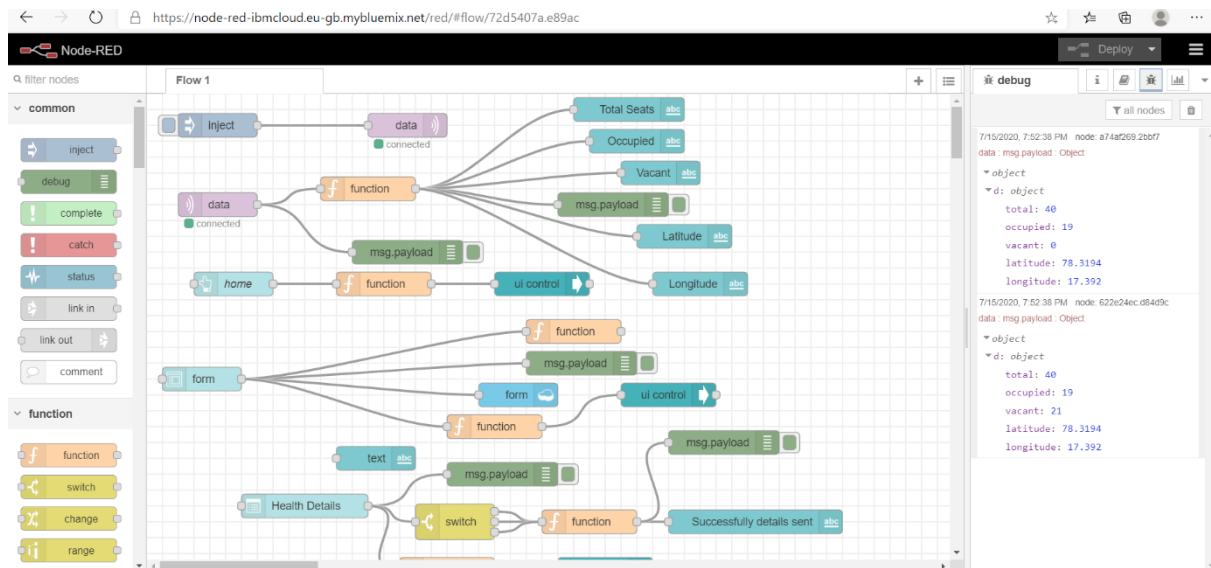
4. FLOW DIAGRAM

The following flow diagram explains the code and Node- red logic in generating a result.



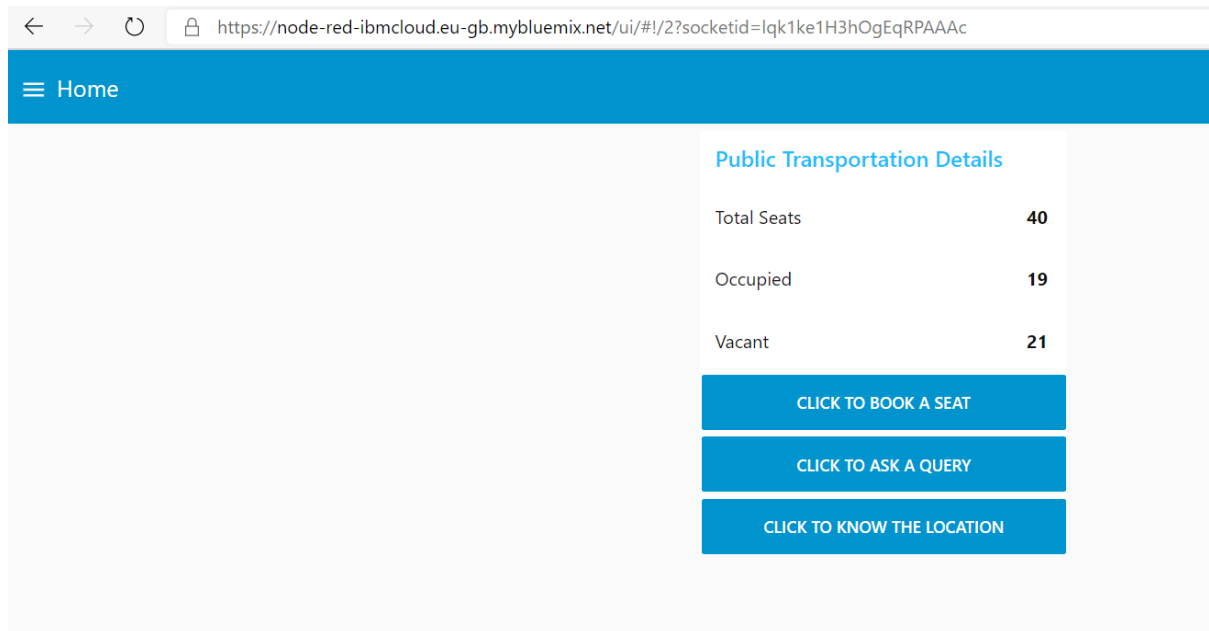
4.1 NODE-RED FLOW:





5. RESULT

1. The passenger is informed about the vacancies of the transport from data received from the cloud. He/She can book a seat in advance using “Click to Book a Seat” button. He/She can know the location by using “Click to know the Location” button. If he has a trouble knowing what to do, he can take the help of assistant by using “Click to Ask a Query” button.



The screenshot shows a web browser window with the URL <https://node-red-ibmcloud.eu-gb.mybluemix.net/ui/#!/2?socketid=lqk1ke1H3hOgEqRPAAAc>. The page has a blue header with a hamburger menu icon and the text "Home". The main content area is light gray. On the right side, there is a white box titled "Public Transportation Details". Inside this box, there is a table with three rows: "Total Seats" with value "40", "Occupied" with value "19", and "Vacant" with value "21". Below the table, there are three blue buttons stacked vertically: "CLICK TO BOOK A SEAT", "CLICK TO ASK A QUERY", and "CLICK TO KNOW THE LOCATION".

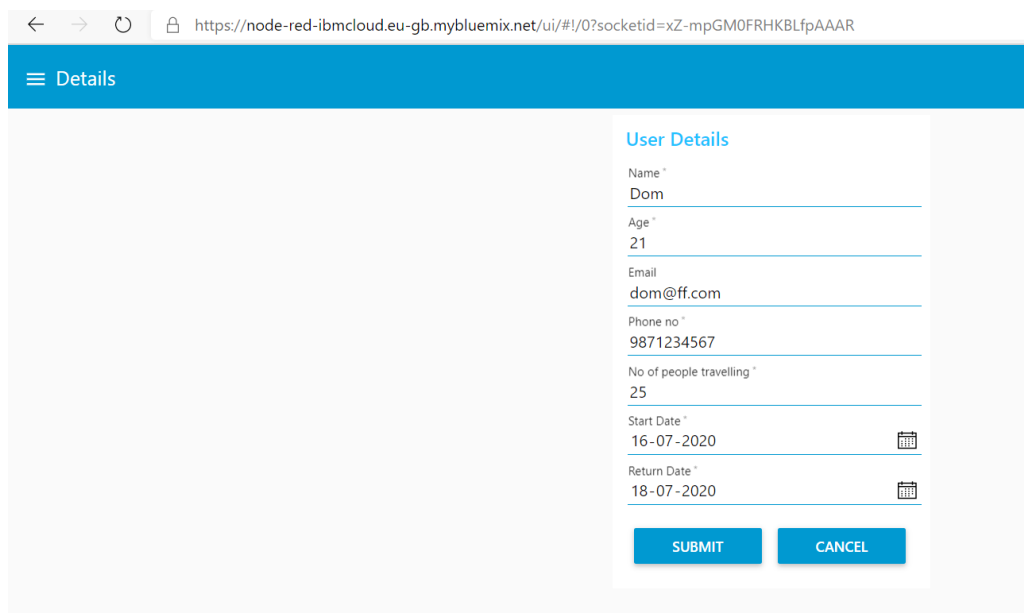
Public Transportation Details	
Total Seats	40
Occupied	19
Vacant	21

CLICK TO BOOK A SEAT

CLICK TO ASK A QUERY

CLICK TO KNOW THE LOCATION

2. Fill in your details and click on submit.

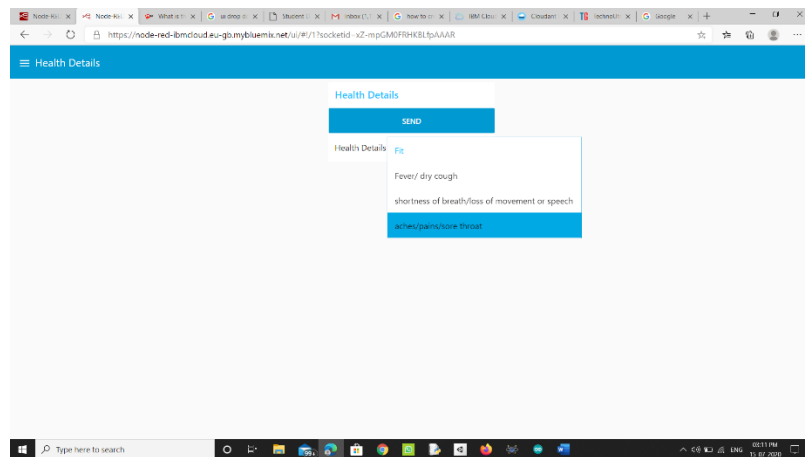


The screenshot shows a web browser window with the URL <https://node-red-ibmcloud.eu-gb.mybluemix.net/ui/#!/0?socketid=xZ-mpGM0FRHKBLfpAAAR>. The page has a blue header with a hamburger menu icon and the text "Details". The main content area is light gray. On the right side, there is a white box titled "User Details". Inside this box, there is a form with several input fields: "Name *" with value "Dom", "Age *" with value "21", "Email" with value "dom@ff.com", "Phone no *" with value "9871234567", "No of people travelling *" with value "25", "Start Date *" with value "16-07-2020" and a calendar icon, and "Return Date *" with value "18-07-2020" and a calendar icon. Below the form, there are two blue buttons: "SUBMIT" and "CANCEL".

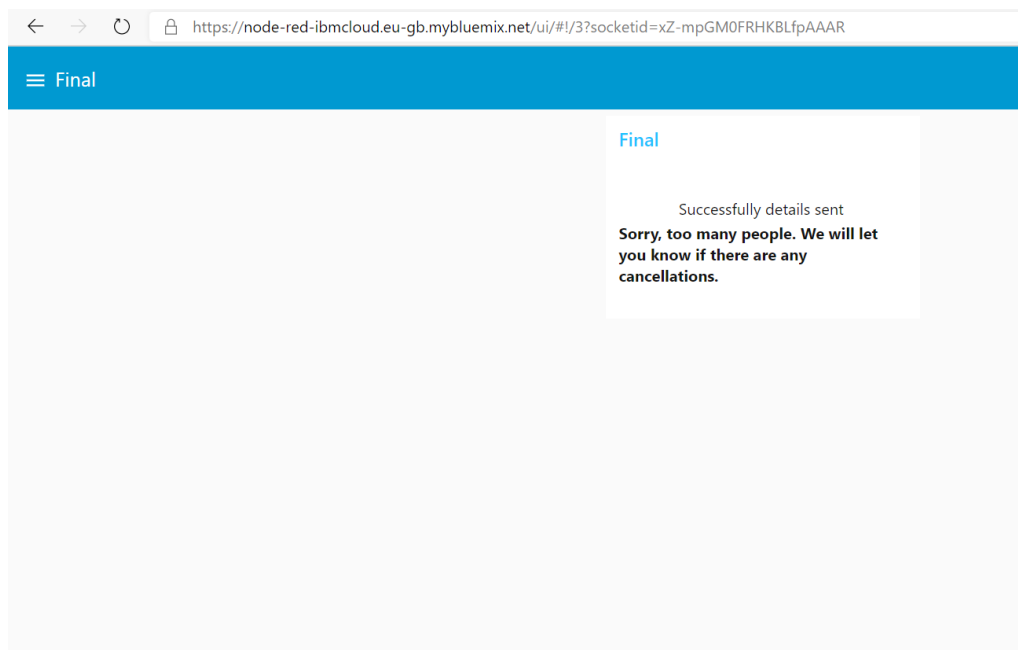
User Details	
Name *	Dom
Age *	21
Email	dom@ff.com
Phone no *	9871234567
No of people travelling *	25
Start Date *	16-07-2020
Return Date *	18-07-2020

SUBMIT CANCEL

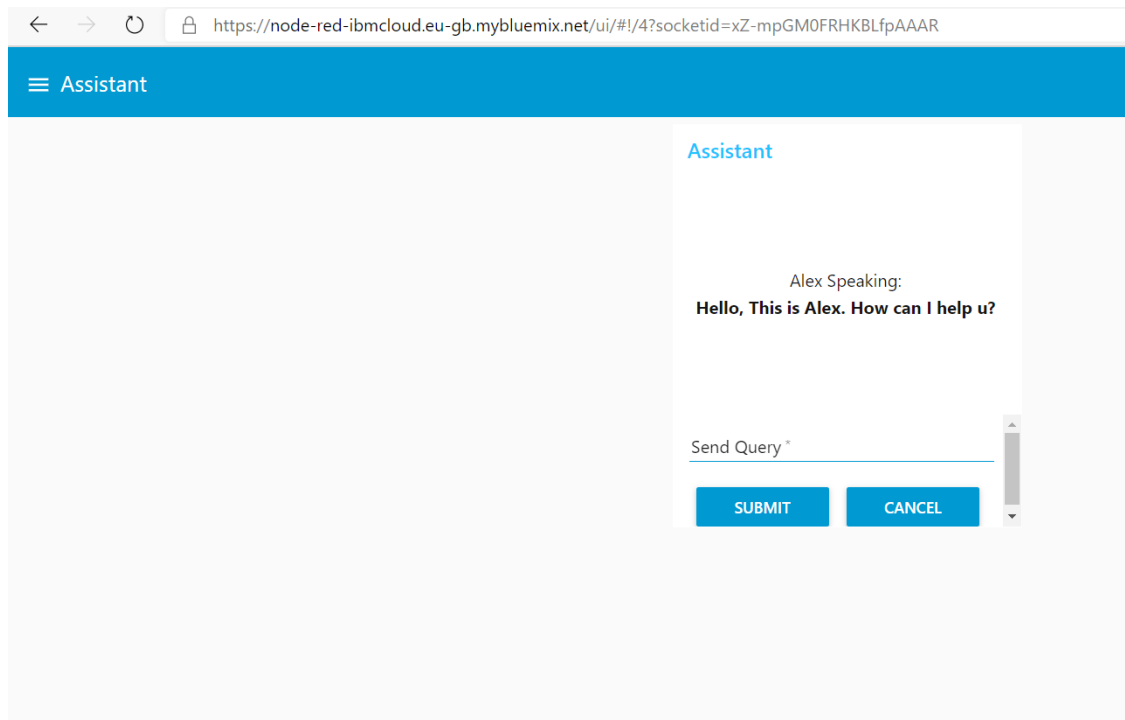
3. Inform your health conditions from the below options.



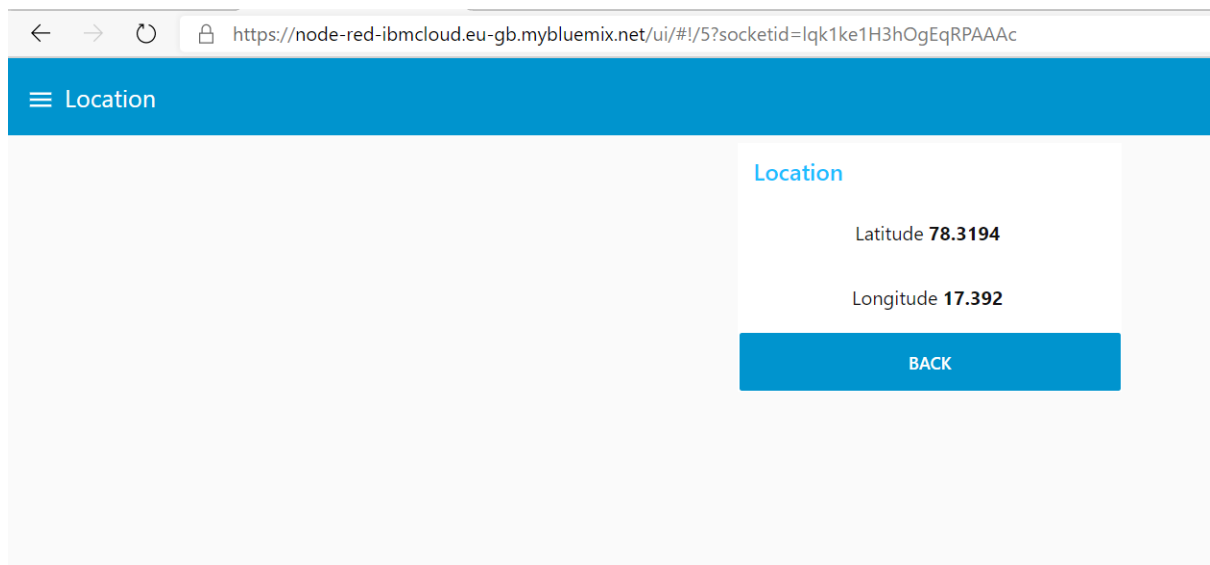
4. The passenger is informed about his status in booking the ticket.



5. The user can ask his queries in Send Query option.



6. The user can get back to Home tab by using “Back” button and decide on his journey.



6. ADVANTAGES

1. The implantation of such feature in the transport sector helps to plan the frequency of transport needed accurately and thus reducing the operation cost of the vehicle.
2. The users will be accommodated properly instead of being overcrowded.
3. The Assistant integrated on UI dashboard ensures a query being solved with ease.

7. DEPENDENCIES

1. It requires a proper network for a continuous transfer of data to cloud.
2. Any component failure leads to misdiagnosis of info and leads to financial loss.
3. IBM Watson is a paid platform. To access the resources beyond a limit, payment needs to be done.
4. IBM Watson is available only in English.

8. APPLICATIONS

The End User Interface is a web-browser based User Interface. This can be easily integrated with any application such as WhatsApp, Telegram etc to act as a chat-bot. If and when created as a stand-alone application, it would be a light weight one.

This project could also be used by private cab service companies like Ola, Uber etc where in one can find the health details of the user as well as the driver.

Currently the project applies to help with the COVID-19 situation, helping public transport users to travel safely.

9. CONCLUSION

Despite of the fact of having few dependencies, the project ensures the running of the transport sector contributing economically instead a steady halt. The features of the project help in not making the pandemic scenarioworse.

10. FUTURE SCOPE

In the future, this project could be implemented by both public and private transportation services. More hardware like tracking a vehicle can be integrated to the project. These beacons would track humans 24x7 and keep the public safe by sending location information to family and friends. Using this design would not only help control the pandemic situation but also keep public safe.

An RFID tagged card for fasters and safer transactions of expenses during travel could be integrated in the future. A scenario similar to that of metro stations could be implemented wherein a card scanner attached to the transportation vehicle would charge the person using public transport according to the number of kilometers he or she travelled. The same card could be used to let the person in or out using automatic doors to the vehicle.

APPENDIX

A. SOURCE CODE FOR ARDUINO

-----START OF CODE -----

```
int Status = 12; // Digital pin D6
int sensor = 13; // Digital pin D7
int count=0; // no of occupied seats
int vacancies = 50 //assuming bus has 50 seats

#include <ESP8266WiFi.h>
#include <PubSubClient.h>

const char* ssid = "YOUJNTU1S12";
const char* password = "YOUJNTU1S12";
#define ORG "znoixf"
#define DEVICE_TYPE "NodeMCU"
#define DEVICE_ID "11111"
#define TOKEN "123456789"
//----- Customise the above values -----
//include device credentials
char server[] = ORG ".messaging.internetofthings.ibmcloud.com";
char publictopic[] = "iot-2/evt/ammonia/fmt/json";
char authMethod[] = "use-token-auth";
char token[] = TOKEN;
char clientId[] = "d:" ORG ":" DEVICE_TYPE ":" DEVICE_ID;

WiFiClientwifiClient;
PubSubClientclient(server, 1883,wifiClient);

void setup() {
  // put your setup code here, to run once:
  Serial.begin(9600);
  pinMode(sensor, INPUT); // declare sensor as input
  pinMode(Status, OUTPUT); // declare LED as output

  Serial.print(ssid);
  WiFi.begin(ssid, password);
  while (WiFi.status() != WL_CONNECTED) {
    delay(500);
    Serial.print("."); }
  Serial.println("");

  Serial.print("WiFi connected, IP address: ");
  Serial.println(WiFi.localIP());
}
```

```

void loop() {
    long state = digitalRead(sensor);
    if(state == HIGH) {
        count=count+1;
        digitalWrite (Status, HIGH);
        Serial.println("Motion detected!");
        delay(1000);
    }
    else {
        digitalWrite (Status, LOW);
        Serial.println("Motion absent!");
        delay(1000);
    }

    Serial.print("No of seats occupied is = ");
    Serial.println(count);//print the ppm percent value to serial
    delay(1000);
    }
    vacancies=vacancies-count;

    float h=digitalRead(sensor);
    if(isnan(h))
    { Serial.println("failed to read from pir sensor"); }
    Serial.println("vacancies are : "+ String(vacancies));
    delay(1000);

    PublishData(count,vacancies);
}

void PublishData(int count ,int vacancies){
    if (!client.connected()) {
        Serial.print("Reconnecting client to ");
        Serial.println(server);
        while (!client.connect(clientId, authMethod, token)) {
            Serial.print(".");
            delay(500);
        }
        Serial.println();
    }
    String payload = "{\"d\":{\"count\":";
    payload += count;
    payload = "," "\"vacancies\":";
    payload += vacancies;
    payload += "}}";
}

```

```
Serial.print("Sending payload: ");
Serial.println(payload);
```

```
    if (client.publish(publictopic, (char*) payload.c_str())) {
Serial.println("Publish ok"); }
    else {
Serial.println("Publish failed"); }
}
```

----- END OF CODE -----

Note:

Location of the bus is shared via the driver of the transport through 4G network to cloud.

B. JSON FLOW FOR NODE-RED:

```
[{"id":"72d5407a.e89ac","type":"tab","label":"Flow 1","disabled":false,"info":""},
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oad":"","d":
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{"id":"622e24ec.d84d9c","type":"debug","z":"72d5407a.e89ac","name":"","active":true,"tosi
debar":true,"console":false,"tostatus":false,"complete":"payload","targetType":"msg","status
Val":"","statusType":"auto","x":590,"y":140,"wires":[]},
{"id":"c0cb478e.6d8038","type":"function","z":"72d5407a.e89ac","name":"","func":"global.s
et(\"total\", msg.payload.d.total);\nglobal.set(\"occupied\",
msg.payload.d.occupied);\nglobal.set(\"latitude\",msg.payload.d.latitude);\nglobal.set(\"longit
ude\",msg.payload.d.longitude)\n\ntotal = msg.payload.d.total;\noccupied =
msg.payload.d.occupied;\n\nvacant = total-occupied;\nmsg.payload.d.vacant =
vacant;\nglobal.set(\"vacant\", msg.payload.d.vacant);\n\nreturn
msg;","outputs":1,"noerr":0,"initialize":"","finalize":"","x":280,"y":120,"wires":
[[["622e24ec.d84d9c","95e1c7ee.752498","acff7fa7.57b6b","aca86bb.ce0bd98","c1fca4fe.2f7
2b8","d59ef0d6.55c6"]],{"id":"bf9d9105.386f9","type":"http
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c":"","x":140,"y":940,"wires":[["f283a9.77e31c58"]]},{"id":"2daa5d00.f87a62","type":"http
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{"x":530,"y":940,"wires":[]},
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yload = {\n  \"total\": global.get(\"total\"),\n  \"occupied\":
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[{"label":"Name","value":"name","type":"text","required":true,"rows":null},
```

```

{"label":"Age","value":"age","type":"number","required":true,"rows":null},
{"label":"Email","value":"email","type":"email","required":false,"rows":null},
{"label":"Phone no","value":"phno","type":"number","required":true,"rows":null},
{"label":"No of people
travelling","value":"travel","type":"number","required":true,"rows":null},{ "label":"Start
Date","value":"start date","type":"date","required":true,"rows":null},{ "label":"Return
Date","value":"return date","type":"date","required":true,"rows":null}], "formValue":
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date":""}, {"payload":"","submit":"submit","cancel":"cancel","topic":"","x":70,"y":360,"wires"
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alth
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ssthru":true,"multiple":false,"options":[{"label":"Fit","value":0,"type":"num"},
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{"t":"eq","v":"2","vt":"num"}], "checkall":"true","repair":false,"outputs":3,"x":390,"y":540,"
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{"id":"3445e901.a7f1d6","type":"ui_text","z":"72d5407a.e89ac","group":"bef370a1.45377",
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msg.payload=\"We will soon send you confirmation\";\n  }\n  else\n  {\n
msg.payload=\"Sorry, too many people. We will let you know if there are any
cancellations.\";\n  }\n}\n\nelse\n{\n  msg.payload=\"Sorry, cannot let you

```

```

travel\";\n}\nreturn
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```

```

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