



SMART TRAVEL PLAN

With IBM Watson Platform

TEAM: IGNITE

Divya

Maanasvi



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SMART TRAVEL PLAN

- COVID -19 hit everyone hard.
- How are you going to survive as a public transportation user?
- Don't worry we got you covered!



SMART TRAVEL PLAN

- The Battle will go on...



PROBLEMS FACED AND NEED TO BE SOLVED

- Social distance
- Who is healthy and who is not?
- Are you safe?
- Will there be enough passenger seats?



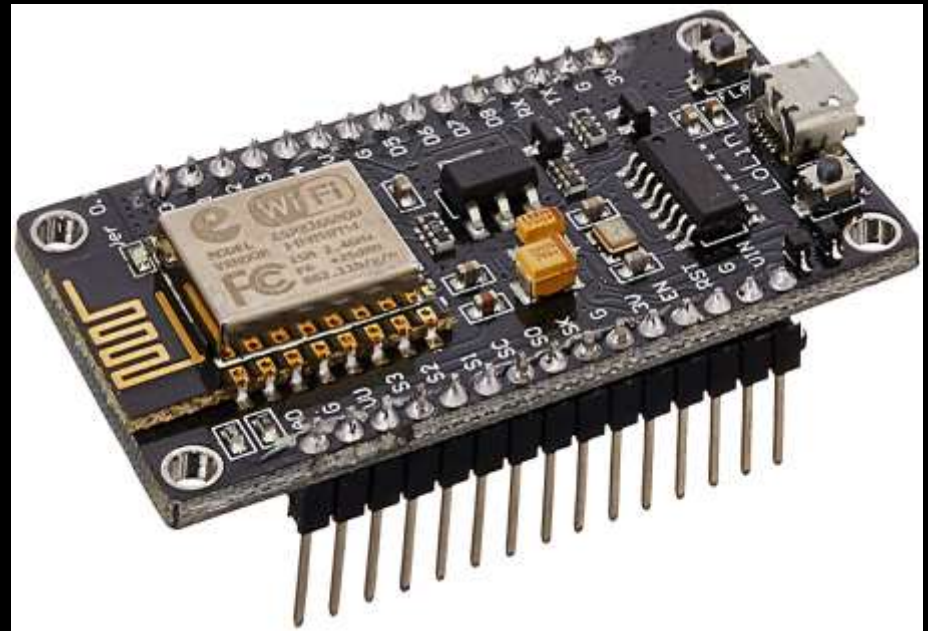


HARDWARE & SOFTWARE

- The hardware components used are:
 - NodeMCU ESP8266
 - PIR Sensor
- The software used:
 - Arduino software
 - IBM Watson Platform
 - Node-RED Starter Application
 - IBM Assistant

NODEMCU ESP8266

- The vital device
- The mother board controlling all tasks
- Wi-Fi – Microcontroller
- Serial communication protocols like UART, I2C



PIR SENSOR

- Passive Infra Red Sensor
- Emits heat? Detected!
- Detects humans
- Used wisely
to count number
of people



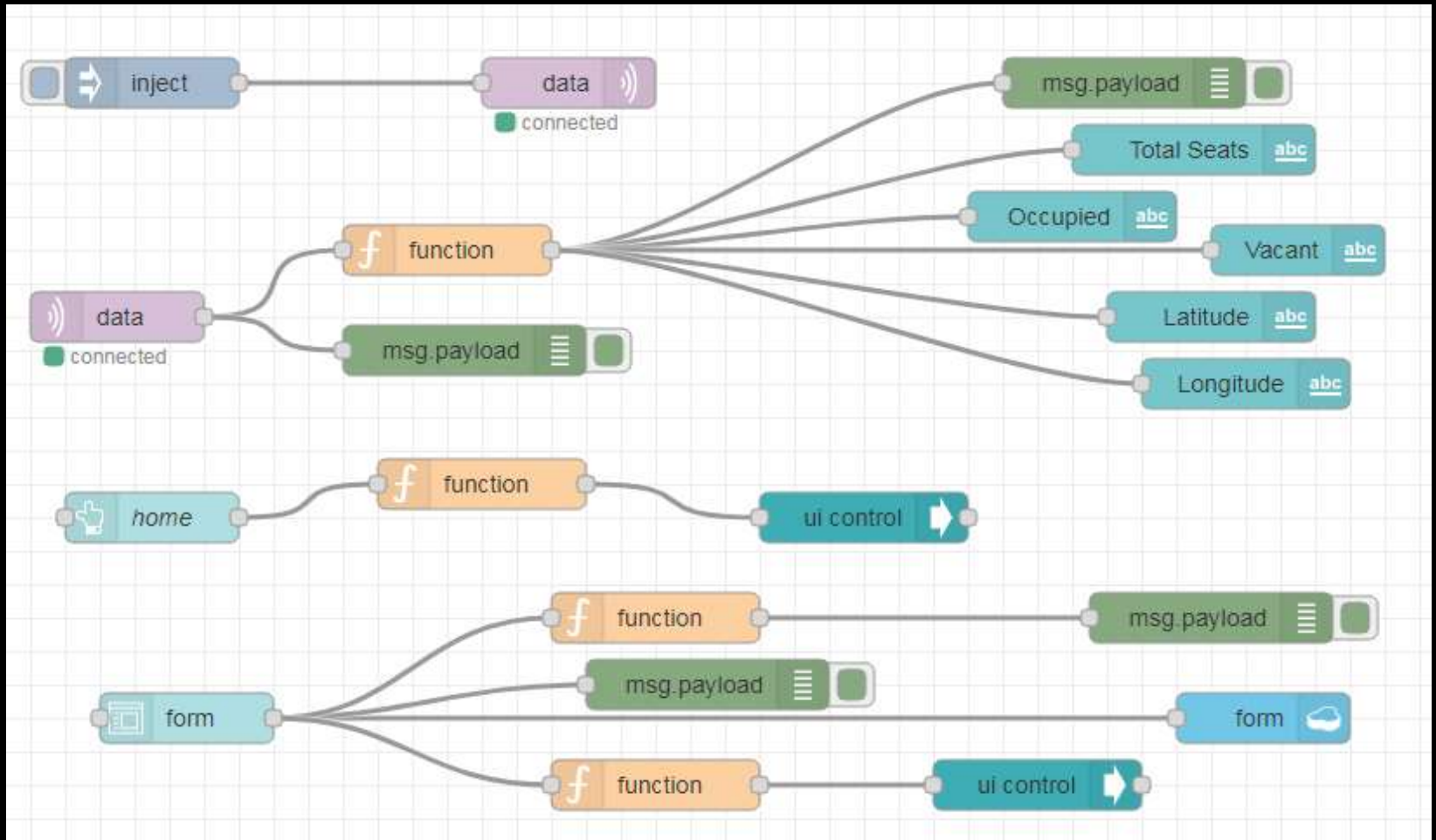
SOFTWARE



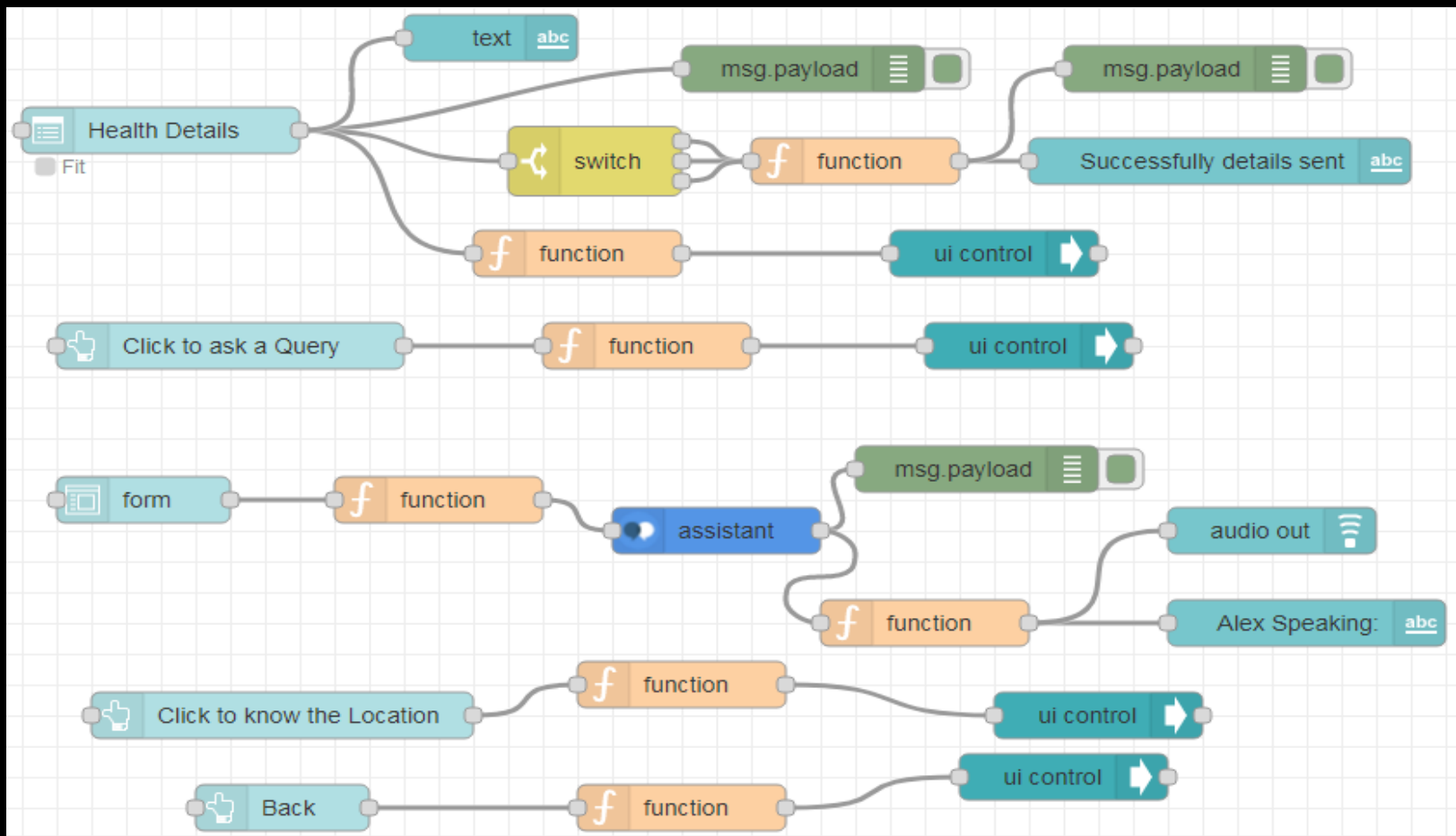
THE SIMPLE PROCEDURE

- Working Flow:
 - PIR/Arduino → IBM cloud → Node-RED → UI
 - UI → User Details → Database → Analysis → Output
- Smartly ask the user to fill health details and make analysis whether to let person travel or not
- Keeping public safe by sharing location to friends and family
- Assistant to guide the user for booking a ticket and give details.

NODE-RED FLOW - 1



NODE-RED FLOW - 2



END USER INTERFACE

≡ Home

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

≡ Assistant

Assistant

Alex Speaking:
I didn't understand. You can try rephrasing.

Send Query *

SUBMIT

CANCEL

END USER INTERFACE

≡ Details

User Details

Name *

Age *

Email

Phone no *

No of people travelling *

Start Date *

Return Date *

SUBMIT

CANCEL


≡ Health Details

Health Details

For smooth travelling, fill below:

Health Details Fever/ dry cough

END USER INTERFACE


 Location

Location

Latitude **78.3194**

Longitude **17.392**

BACK

 Final

Final

Successfully details sent

We will soon send you confirmation

ADVANTAGES

Using this prototype, one can:

- Save oneself from Novel Corona Virus
- Know that they're travelling safely
- Social distance from others
- Fight COVID-19 situation
- Helping people who rely on public transportation



THE FUTURE IS NOW.

THANK YOU!!!

ANY QUIRIES?

