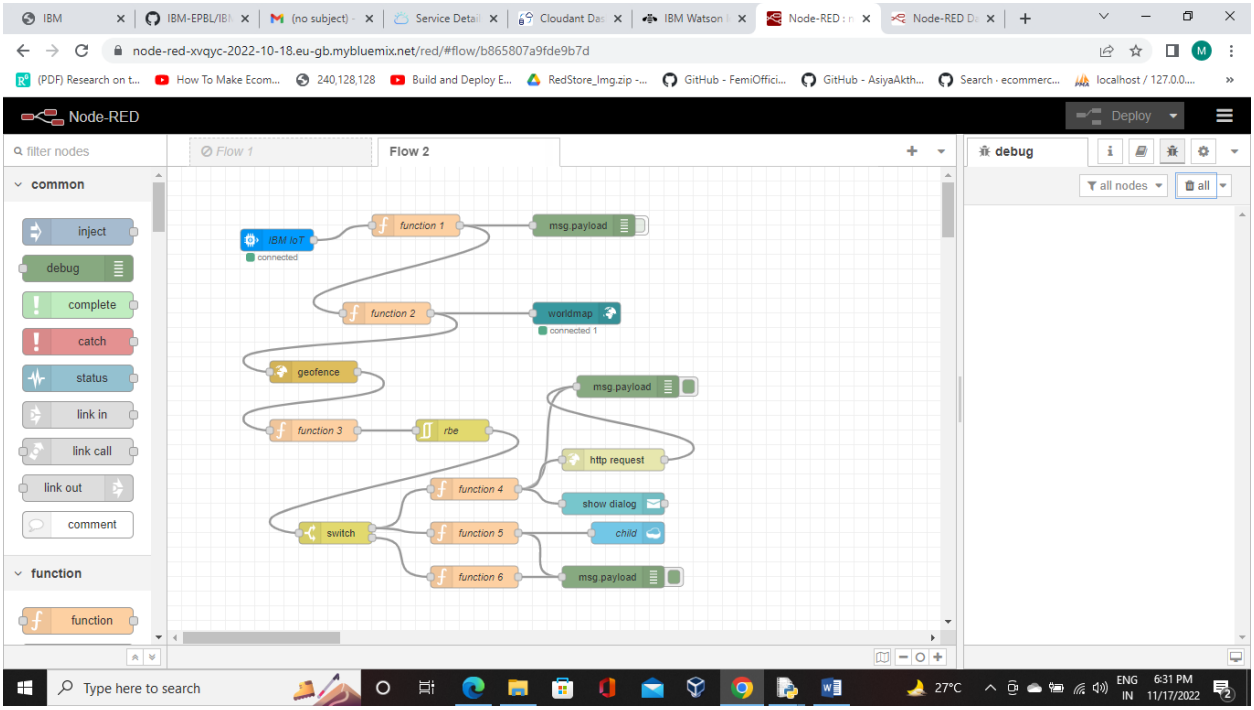
Project Development – Sprint 3

Iot Based Safety For Child Safety Monitoring & Notification

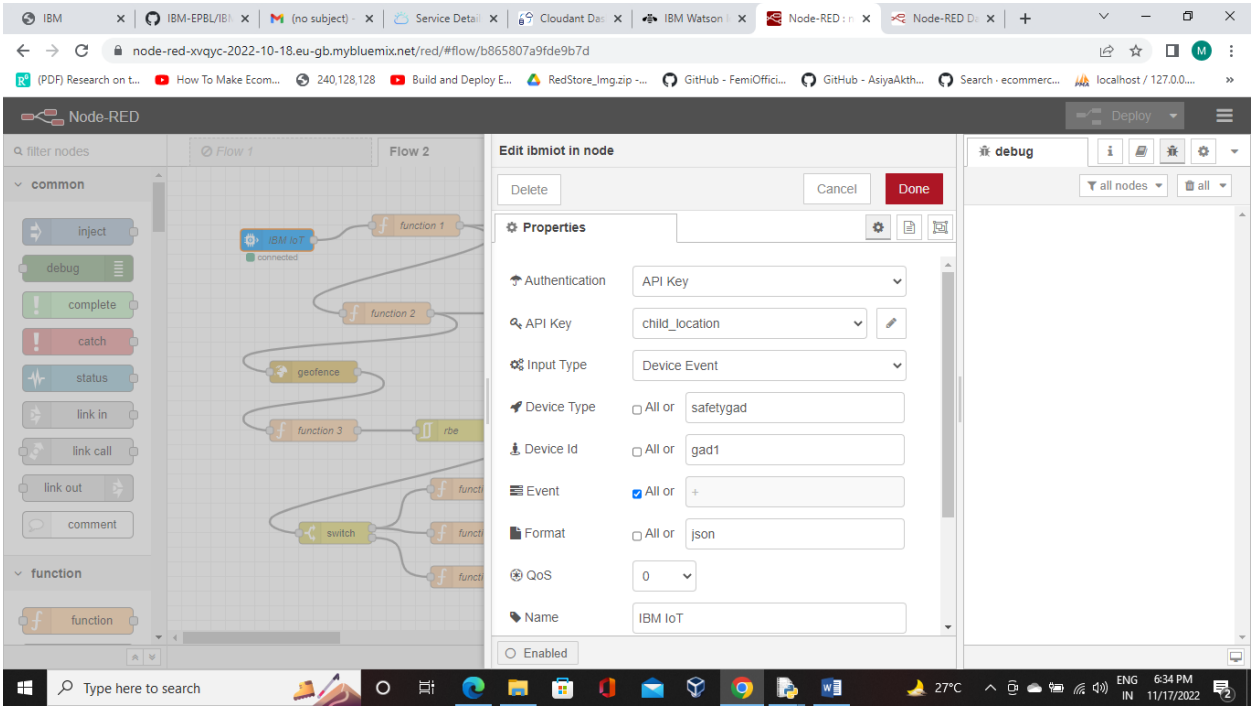
TEAM ID:PNT2022TMID23918

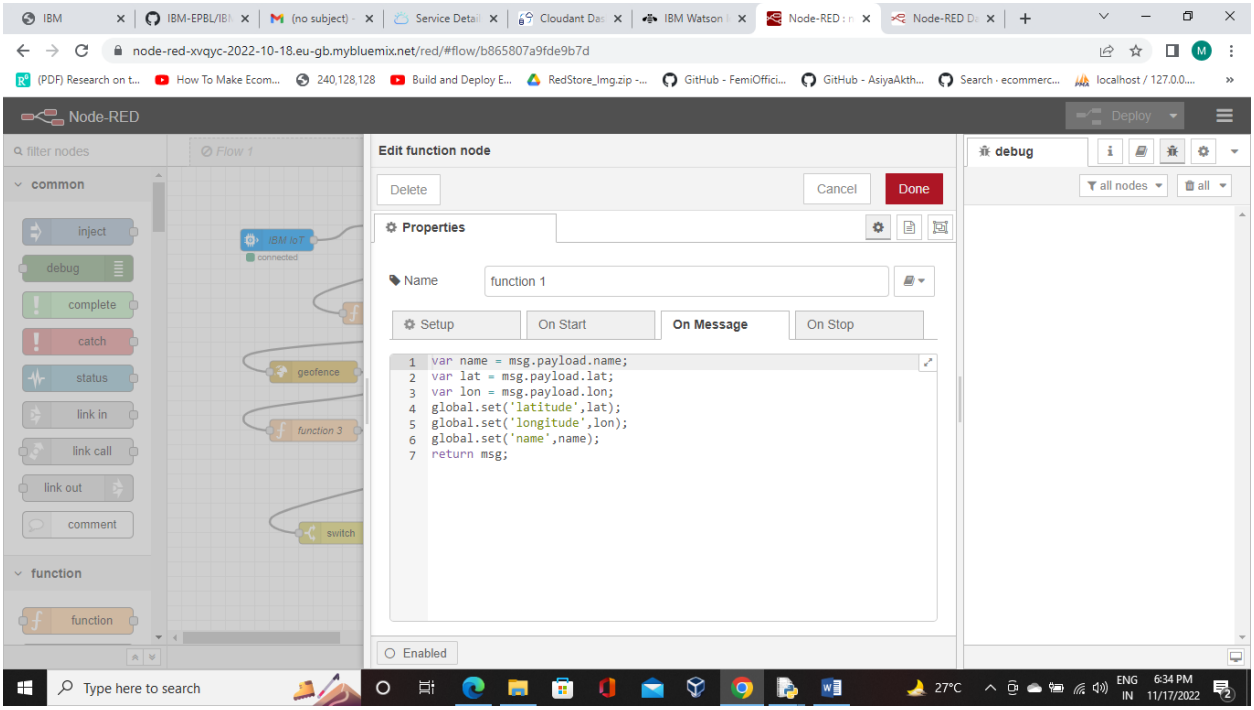
Creating Node-Red Service and connecting with IBM cloud

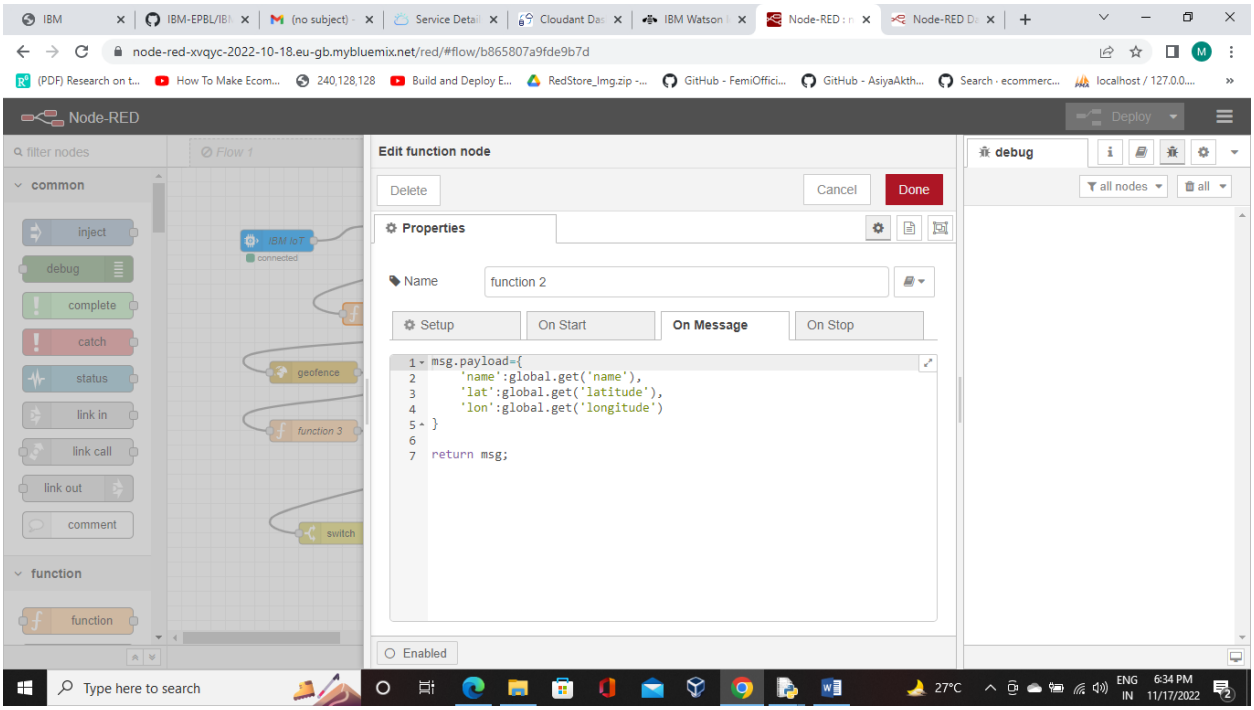
Creating Node-Red Service :

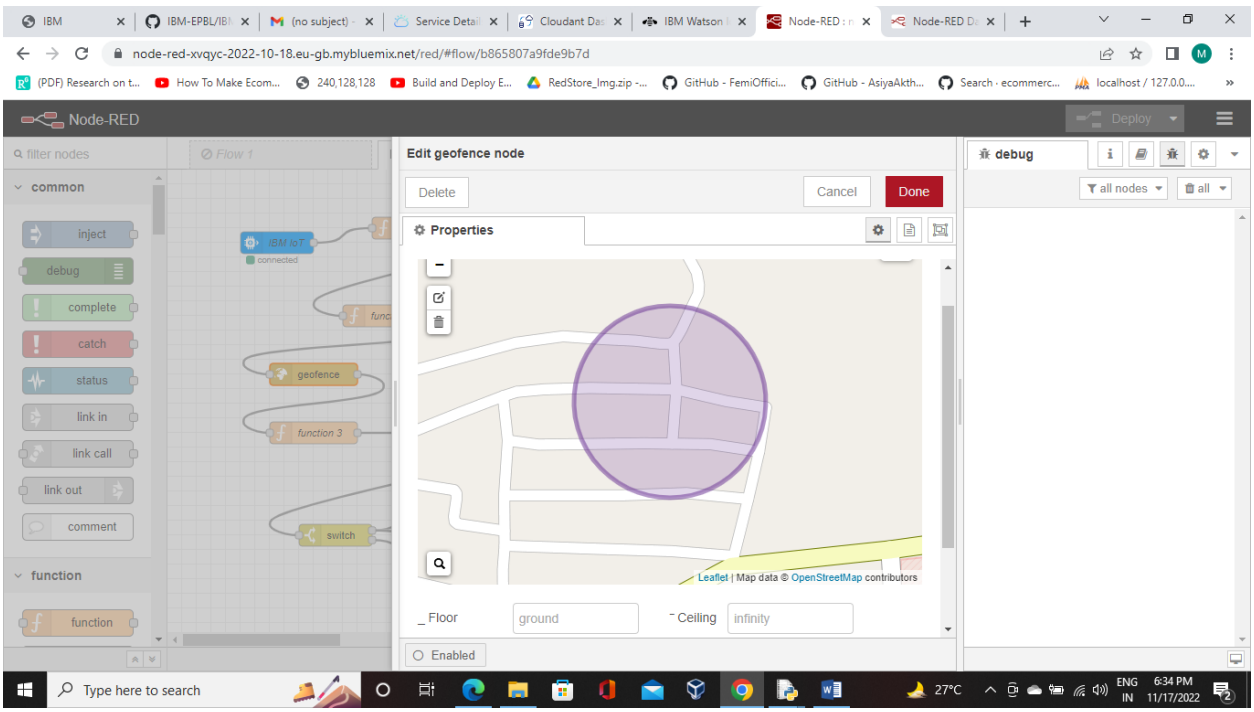


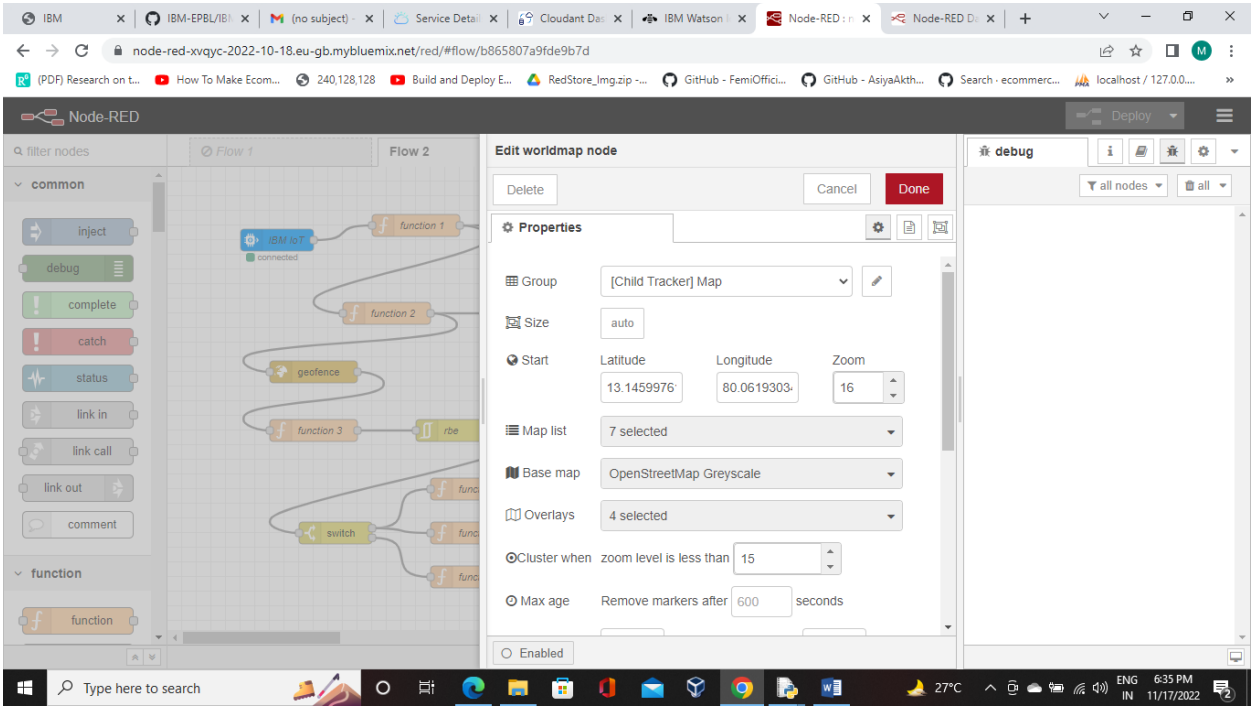
Codes in Each Node :

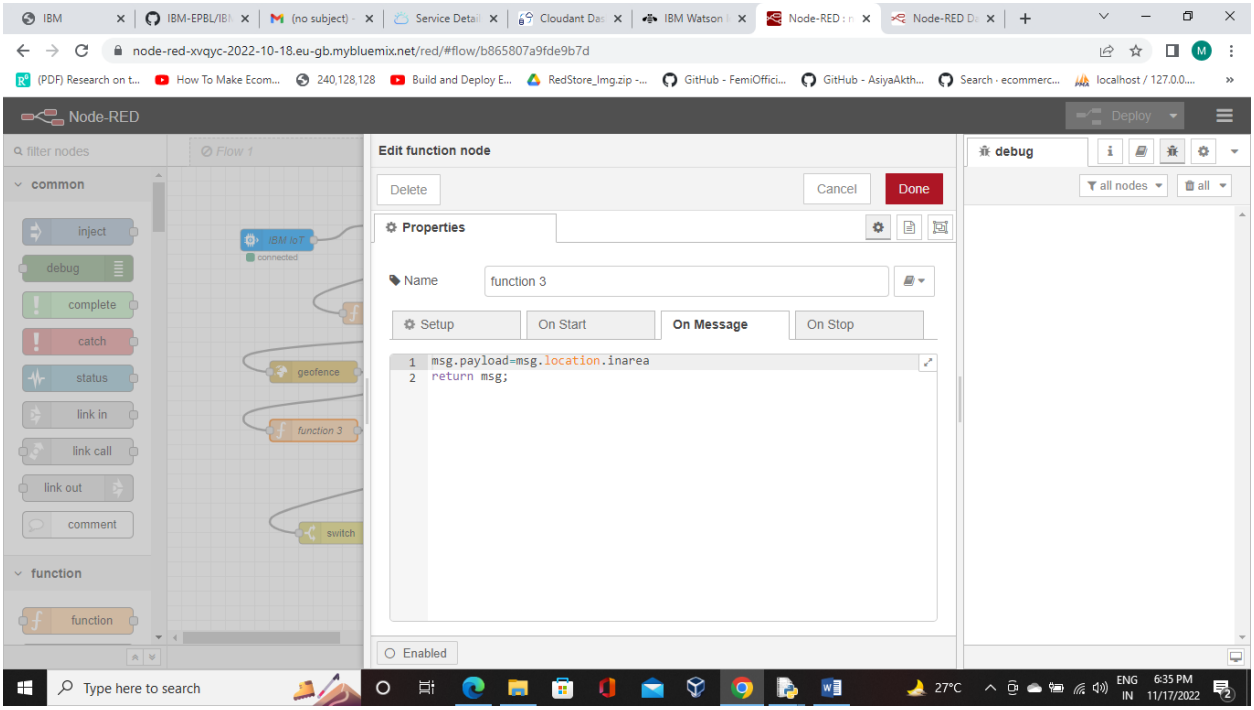


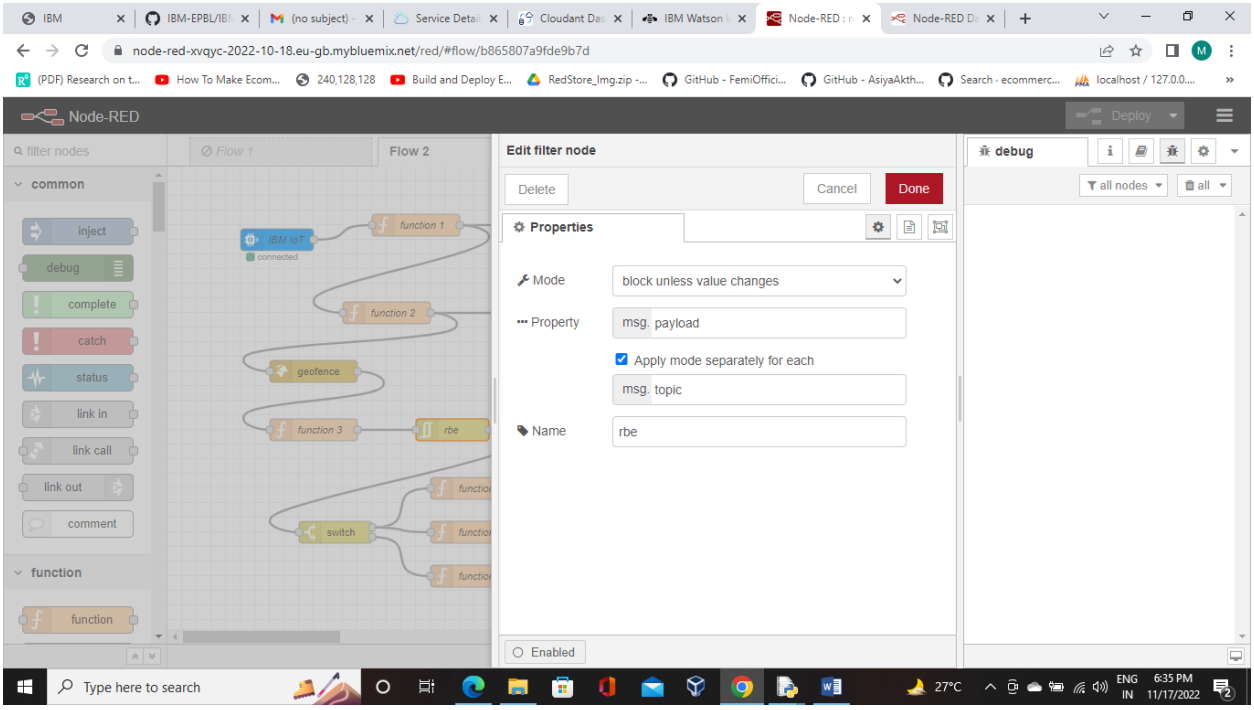


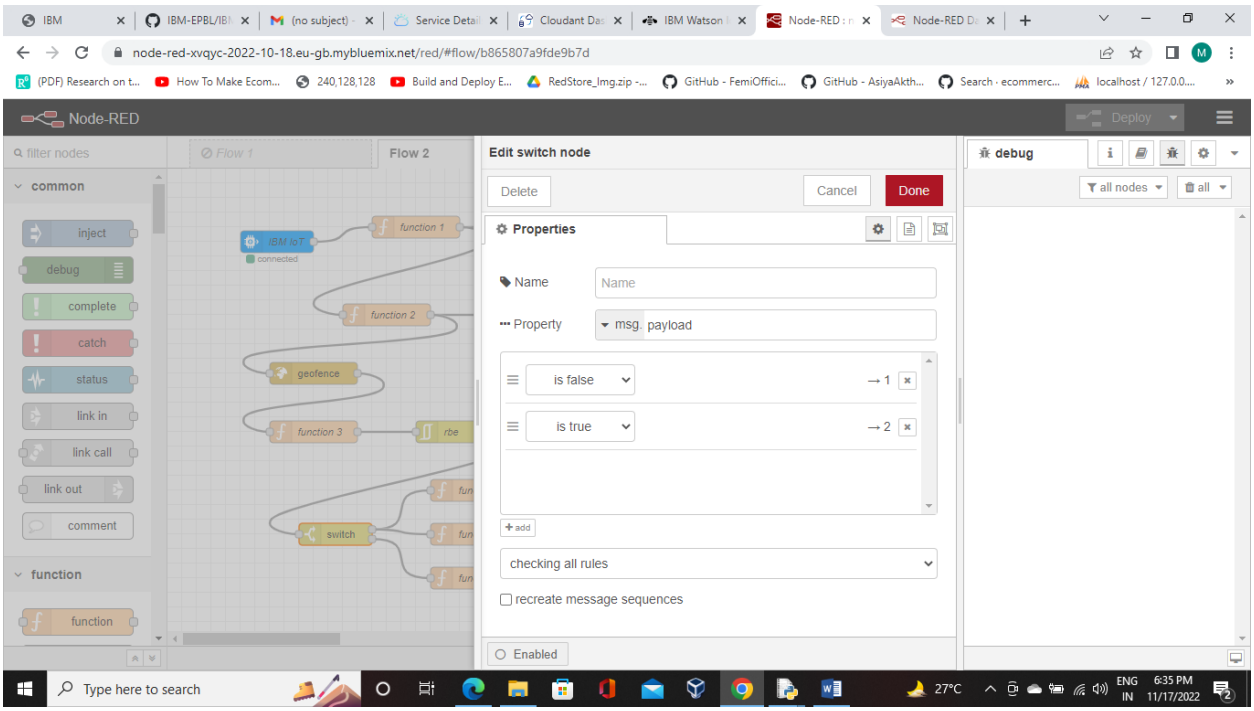

Node-RED
Edit function node
Delete
Cancel
Done
Properties
Name
function 2
Setup
On Start
On Message
On Stop
msg.payload={
'name':global.get('name'),
'lat':global.get('latitude'),
'lon':global.get('longitude')
}
return msg;
Enabled
debug
common
function
Type here to search

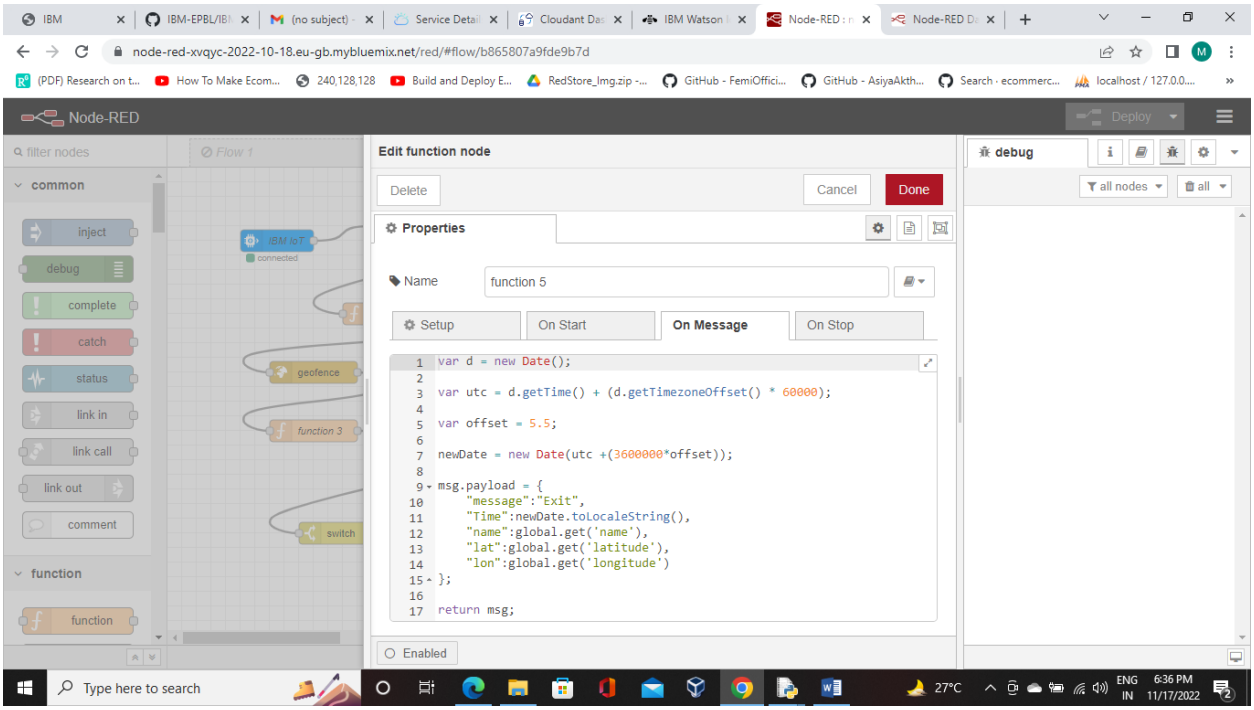

Node-RED
Edit geofence node
Delete
Cancel
Done
Properties
Leaflet | Map data © OpenStreetMap contributors
Floor
ground
Ceiling
infinity
Enabled
debug
common
function
Type here to search

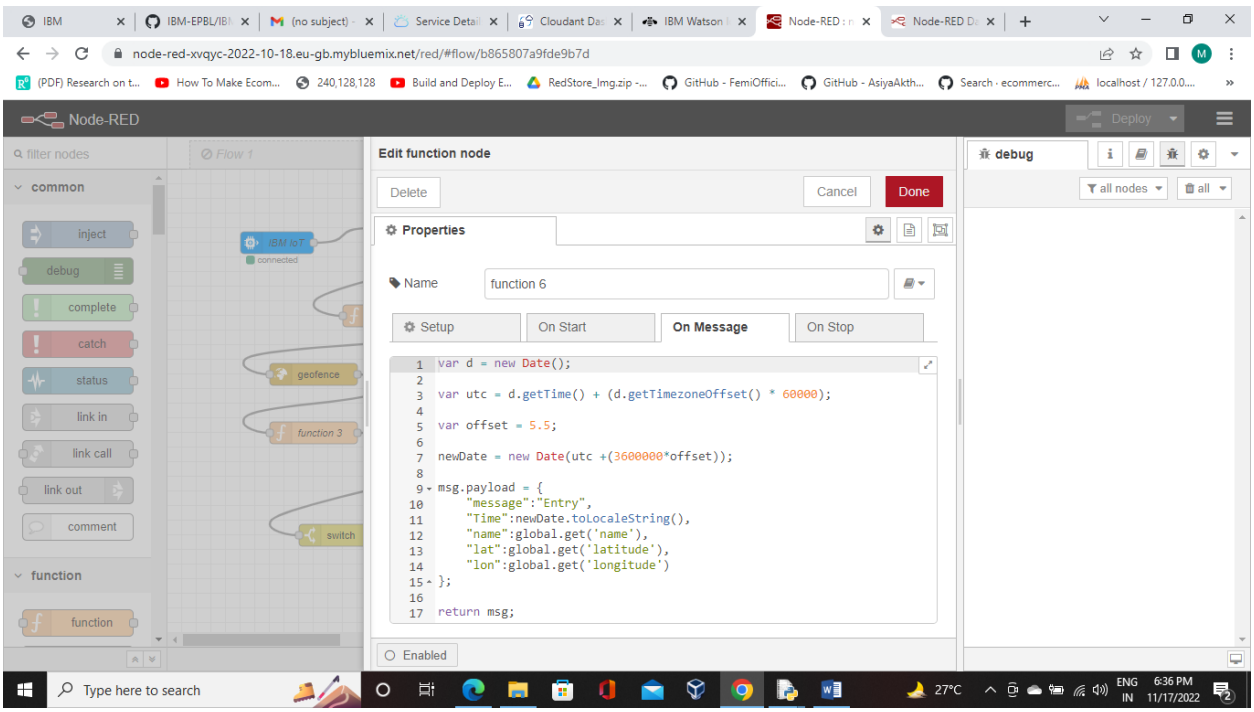

node-red-xvqyc-2022-10-18.eu-gb.mybluemix.net/red/#flow/b865807a9fde9b7d
Node-RED
Deploy
Flow 1
Flow 2
Edit worldmap node
Delete
Cancel
Done
Properties
Group
[Child Tracker] Map
Size
auto
Start
Latitude
Longitude
Zoom
13.1459976
80.0619303
16
Map list
7 selected
Base map
OpenStreetMap Greyscale
Overlays
4 selected
Cluster when
zoom level is less than
15
Max age
Remove markers after
600
seconds
Enabled
debug
all nodes
common
inject
debug
complete
catch
status
link in
link call
link out
comment
function
function
IBM IoT
connected
function 1
function 2
geofence
function 3
rbe
switch
Type here to search
27°C
ENG
IN
6:35 PM
11/17/2022

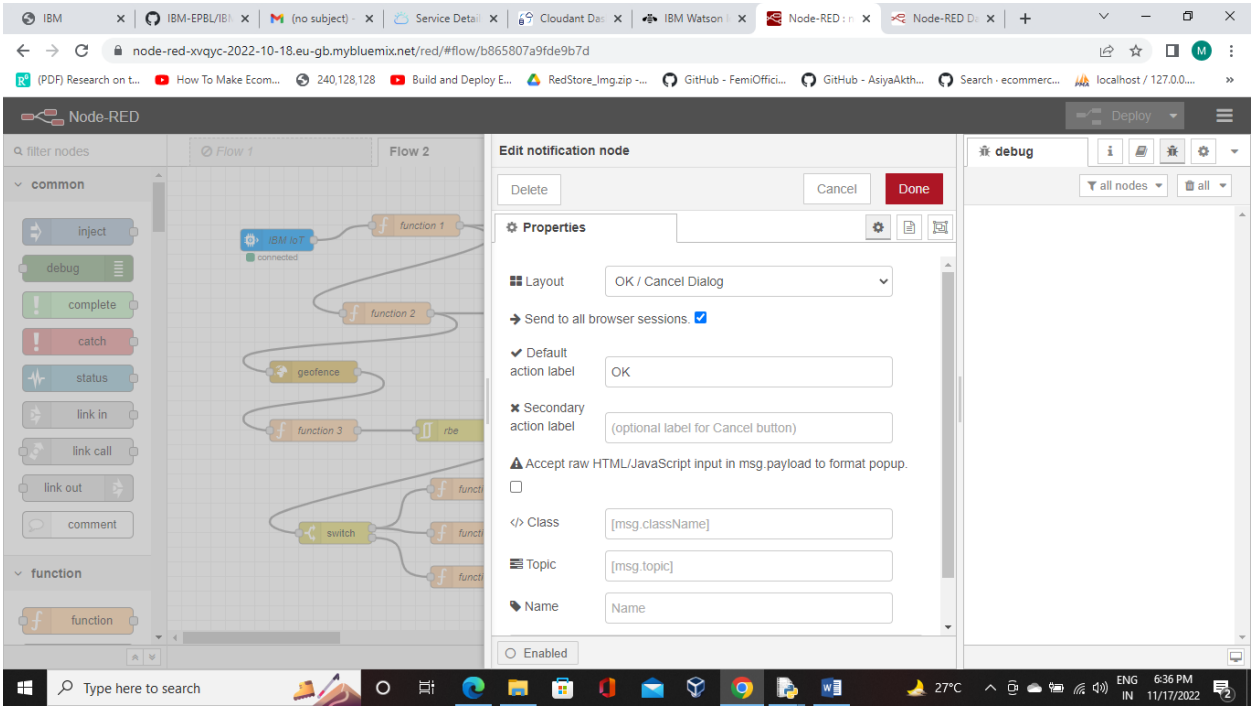

node-red-xvqyc-2022-10-18.eu-gb.mybluemix.net/red/#flow/b865807a9fde9b7d
Node-RED
Deploy
Flow 1
Edit function node
Delete
Cancel
Done
Properties
Name
function 3
Setup
On Start
On Message
On Stop
1 msg.payload=msg.location.inarea
2 return msg;
Enabled
debug
all nodes
common
inject
debug
complete
catch
status
link in
link call
link out
comment
function
function
IBM IoT
connected
geofence
function 3
switch
Type here to search
27°C
ENG
IN
6:35 PM
11/17/2022

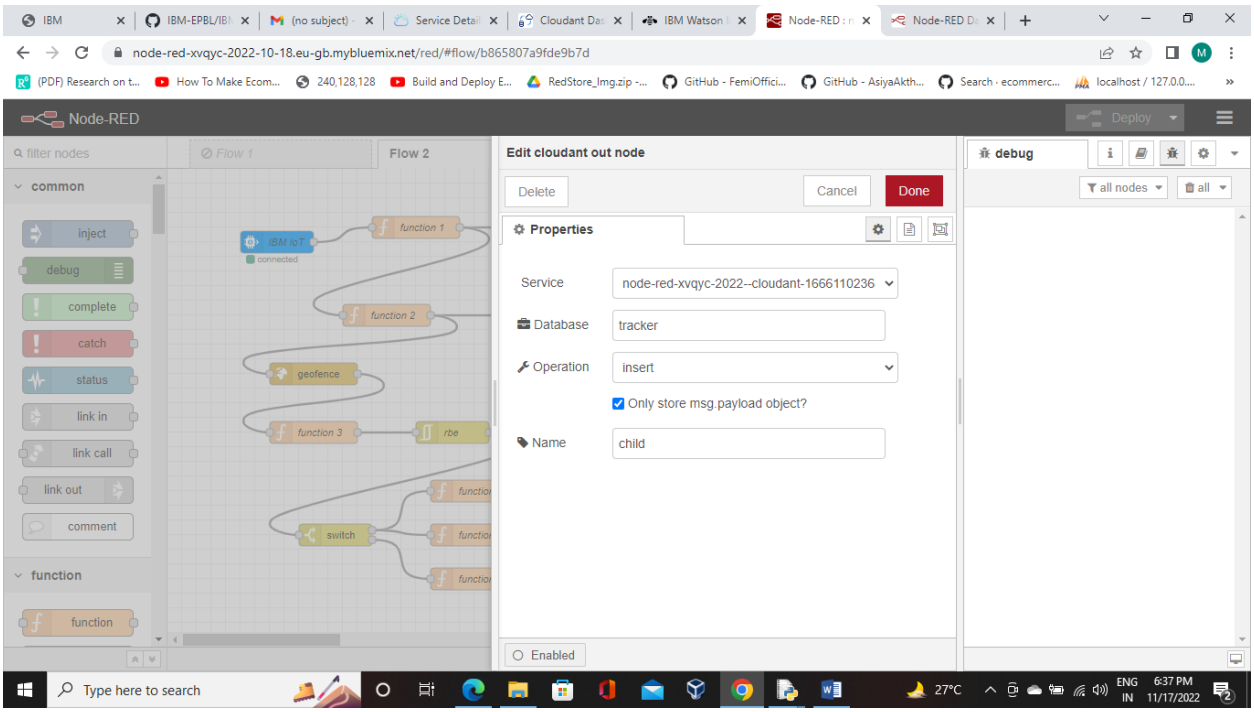

node-red-xvqyc-2022-10-18.eu-gb.mybluemix.net/red/#flow/b865807a9fde9b7d
Node-RED
Deploy
filter nodes
Flow 1
Flow 2
common
inject
debug
complete
catch
status
link in
link call
link out
comment
function
function
IBM IoT
connected
function 1
function 2
geofence
function 3
rbe
switch
Edit filter node
Delete
Cancel
Done
Properties
Mode
block unless value changes
Property
msg. payload
Apply mode separately for each
msg. topic
Name
rbe
Enabled
debug
all nodes
all
Type here to search
27°C
ENG
IN
6:35 PM
11/17/2022

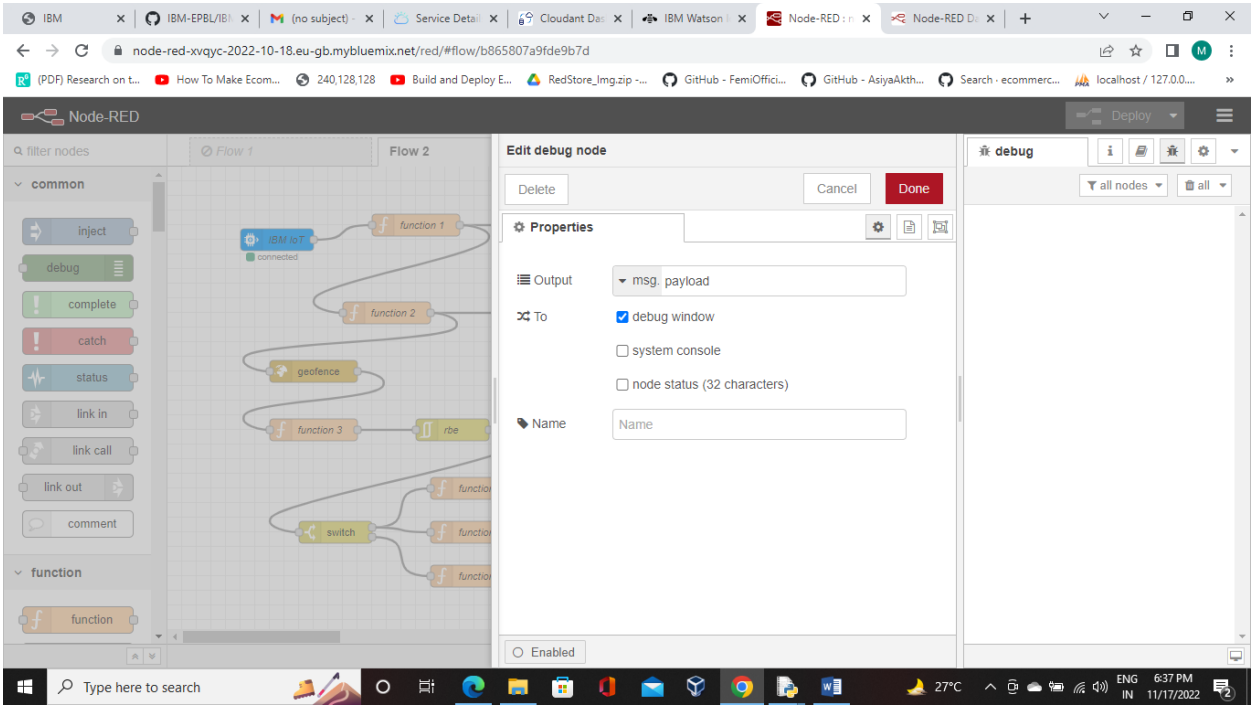

node-red-xvqyc-2022-10-18.eu-gb.mybluemix.net/red/#flow/b865807a9fde9b7d
Node-RED
Deploy
filter nodes
Flow 1
Flow 2
common
inject
debug
complete
catch
status
link in
link call
link out
comment
function
function
IBM IoT
connected
function 1
function 2
geofence
function 3
rbe
switch
Edit switch node
Delete
Cancel
Done
Properties
Name
Name
Property
msg. payload
is false
→ 1
is true
→ 2
add
checking all rules
recreate message sequences
Enabled
debug
all nodes
all
Type here to search
27°C
ENG
IN
6:35 PM
11/17/2022


node-red-xvqyc-2022-10-18.eu-gb.mybluemix.net/red/#flow/b865807a9fde9b7d
Node-RED
Deploy
Edit function node
Delete
Cancel
Done
Properties
Name
function 5
Setup
On Start
On Message
On Stop
var d = new Date();
var utc = d.getTime() + (d.getTimezoneOffset() * 60000);
var offset = 5.5;
newDate = new Date(utc +(3600000*offset));
msg.payload = {
"message":"Exit",
"Time":newDate.toLocaleString(),
"name":global.get('name'),
"lat":global.get('latitude'),
"lon":global.get('longitude')
};
return msg;
Enabled
debug
common
function
Type here to search
27°C
ENG
IN
6:36 PM
11/17/2022


node-red-xvqyc-2022-10-18.eu-gb.mybluemix.net/red/#flow/b865807a9fde9b7d
Node-RED
Deploy
Edit function node
Delete
Cancel
Done
Properties
Name
function 6
Setup
On Start
On Message
On Stop
var d = new Date();
var utc = d.getTime() + (d.getTimezoneOffset() * 60000);
var offset = 5.5;
newDate = new Date(utc +(3600000*offset));
msg.payload = {
"message":"Entry",
"Time":newDate.toLocaleString(),
"name":global.get('name'),
"lat":global.get('latitude'),
"lon":global.get('longitude')
};
return msg;
Enabled
debug
common
function
Type here to search
27°C
ENG
IN
6:36 PM
11/17/2022


node-red-xvqyc-2022-10-18.eu-gb.mybluemix.net/red/#flow/b865807a9fde9b7d
Node-RED
Deploy
Edit notification node
Delete
Cancel
Done
Properties
Layout
OK / Cancel Dialog
Send to all browser sessions.
Default action label
OK
Secondary action label
(optional label for Cancel button)
Accept raw HTML/JavaScript input in msg.payload to format popup.
Class
[msg.className]
Topic
[msg.topic]
Name
Name
Enabled
debug
all nodes
common
function
Flow 1
Flow 2
Type here to search
27°C
ENG IN
6:36 PM
11/17/2022


node-red-xvqyc-2022-10-18.eu-gb.mybluemix.net/red/#flow/b865807a9fde9b7d
Node-RED
Deploy
Edit cloudant out node
Delete
Cancel
Done
Properties
Service
node-red-xvqyc-2022--cloudant-1666110236
Database
tracker
Operation
insert
Only store msg.payload object?
Name
child
Enabled
debug
all nodes
common
function
Flow 1
Flow 2
Type here to search
27°C
ENG IN
6:37 PM
11/17/2022


Node-RED
Deploy
filter nodes
Flow 1
Flow 2
common
inject
debug
complete
catch
status
link in
link call
link out
comment
function
function
IBM IoT
connected
function 1
function 2
geofence
function 3
rbe
switch
Edit debug node
Delete
Cancel
Done
Properties
Output
msg.
payload
To
debug window
system console
node status (32 characters)
Name
Name
Enabled
debug
all nodes
all
Type here to search
27°C
ENG
IN
6:37 PM
11/17/2022