**CAN NODE FOR AN AUTOMOTIVE**

Client part :

Step 1: Main dashboard shows the engine parameter’s

Engine off status show

* ET FL SB SPD (🡨 line 1)
* --- --- OF --- (🡨 line 2)

Engine on status show

* ET FT SB SPD (🡨 line 1)
* 45°c 65% ON 065 (🡨 line 2)

Step 2 :

* Sw2 to turn on or off the engine.
* Sw1 to going to the menu dashboard.

Step 3 : Menu dashboard

🡪Set NODE ID (🡨 line 1)

🡪Set Threshold (🡨 line 2)

* SW1 short press to return back to main dashboard
* SW2 long press to enter into particular menu
* SW2 short press to select the option by shifting the arrow in circular shift

Step 4 : Set NODE ID if selected

* Default screen

Set NODE ID (🡨 line 1)

0001 (🡨 line 2) (default Node id is 0001)

* SW1 short press for increment the node id
* SW2 short press for decrement the node id
* Value go from 0001 to 9999 after 9999 it will be 0000.
* SW2 long press to return back to previous menu & without saving node id.
* SW1 long press to save the node ID ,return back to main dashboard , it will transfer the data to server side, print on Tara term.

Step 5: Set threshold if selected

* Default screen

🡪Set temp (🡨 line 1)

🡪Set Fuel (🡨 line 2)

* SW1 short press to return back to previous menu.
* SW2 short press to select particular menu by shift arrow in circular shift.
* SW2 long press to enter into particular menu.

Step 6: Set temp if selected

* Default screen

Set temperature

Thresh >/< (status of temp)°c

* Default set threshold to 50 if temp is greater than threshold level show < sign in between this otherwise > sign.
* SW1 short press to return previous menu.

Step 7: Set Fuel if selected

* Default screen

Set threshold

Thresh >/< (status of fuel)%

* Default set threshold to 50 if Fuel is greater than threshold level show < sign in between this otherwise > sign.
* SW1 short press to return previous menu.
* This threshold level is to indicate the user add water in engine if threshold of temperature go above set threshold or if fuel level go to below threshold. You can also use LED to indicate this , means if threshold change as per above requirement LED will glow continuous & after add water or fuel LED will off.

Server part:

* Enter key of laptop show

Enter Node id –

* After node id entered it will send signal to particular client if client is available, it shows all engine status of the engine

Example –

Node id - 0001

Fuel level – 010%

Temp - 65°c

Engine status – ON

Speed – 65 KM/HR.

* If node ID is wrong it will not show anything.
* If node ID is correct but engine is in off status it will transfer off status

Example –

Engine status is in off condition.

* If client-side Node id is set then all information send to the server & it show in tara term display.

Example –

Node id - 0010

Fuel level – 010%

Temp - 65°c

Engine status – ON

Speed – 65 KM/HR.

* Do all validation’s of tara term input

Example –

Enter Node ID – adav12jdh54kdj54

🡪In this case it take only 1254.

**THANK YOU**