

TEAM: ENKEFALOS

CONTROLLING INDUCTION STOVE USING ESP8266 NODEMCU

Registration No: DIGIFEST2017003937

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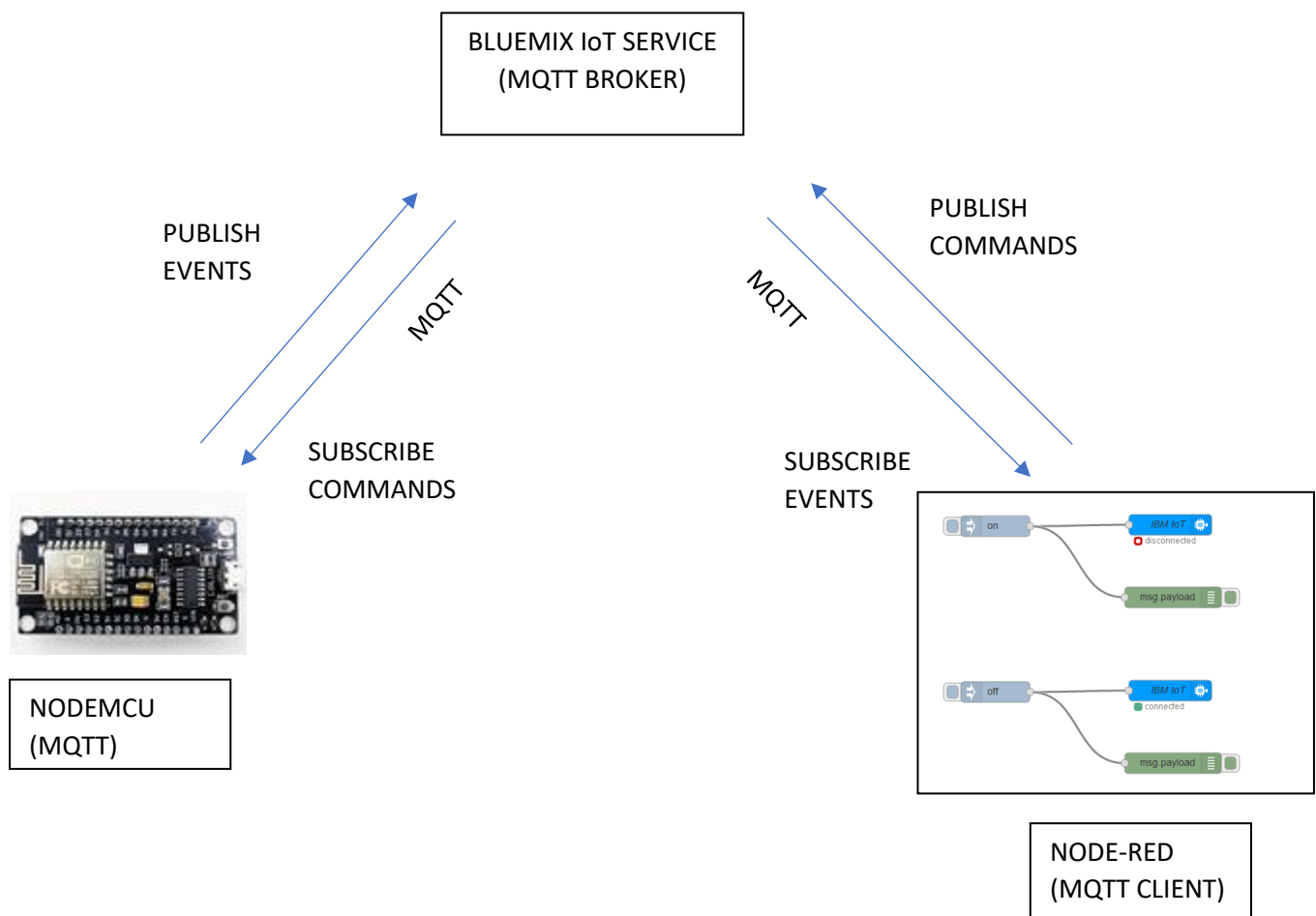
IDEA:

As we know that today induction stoves are dethroning gas stoves from the kitchens as they are efficient, non-polluting and economical. As other cooking methods use flames or red-hot heating elements where the energy loss is more, induction heating only heats the vessel placed over it. So, the air around the vessel does not become hot, keeping kitchen cool.

So, controlling the induction stove plays a predominant role.

We came up with a solution to control the induction stove smartly, securely and remotely.

BLOCK DIAGRAM



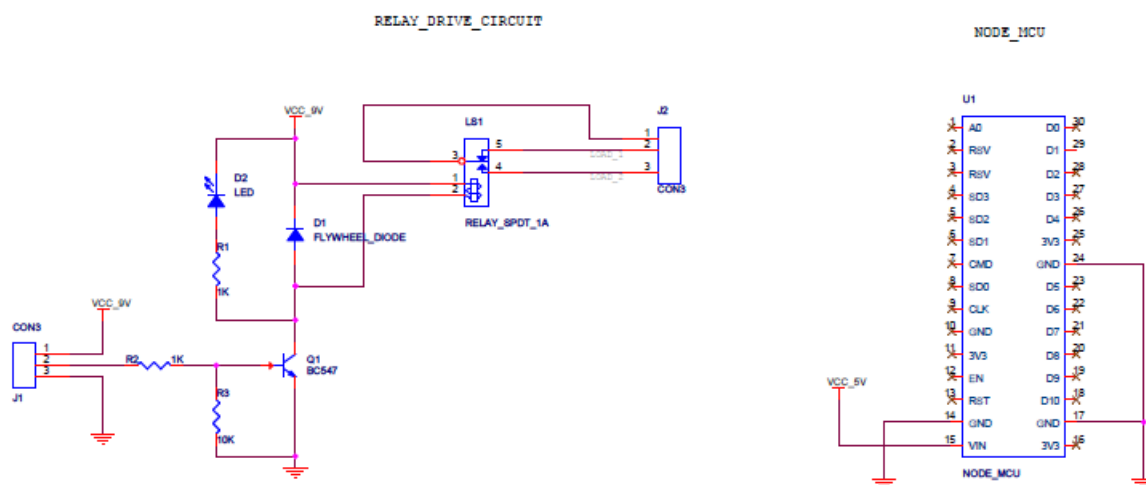
WORKING:

Secure and affordable NODEMCU with MQTT installed is placed inside the induction stove.

IBM BLUEMIX IOT acts a MQTT broker which redirects the subscriber to particular publisher and publisher to the particular subscriber.

When the user try to control the induction stove (ON/OFF) through the GUI, a command is sent from the NODE-RED to the broker which in turn sends command to NODEMCU to turn ON/OFF the induction stove.

SCHEMATICS:



FUTURE ENCHANCEMENTS:

At present when the induction stove is ON by default pressure cooker mode is selected. In near future, few more mode such as heat milk, curry and deep fry etc. will be implemented.