

this is a project for those who need to work with esp8266 with the help of firebase and create, its application using the MIT app inventor.

Arduino IDE

first, you need to add the esp8266 library in Arduino ide through (File->preferences and add.
"http://arduino.esp8266.com/stable/package_esp8266com_index.json" link->sketch->Include Library->Manage Libraries->search->esp8266->download).

or download the zip file of the following link from GitHub or you can find it in the project file.

("https://github.com/ekstrand/ESP8266wifi")

and added into the Arduino ide through

(sketch->Include Library->Add ZIP.Libraries->add the downloaded libraries)

change the user name and password in the Arduino ide code.

also, then you need to set up the firebase_host and the auth ((it's different with everybody)).

make sure that your board manager on esp8266 before you program it through

(Tools->Boards->esp8266 boards ->Generic ESP8266 Module).

here is a video demonstrating if there are any defaults.

<https://www.youtube.com/watch?v=80tECQYzwEE>
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####Adding the sensor####

all that you need to add to any sensor is to #define it in the ((Defining pins area)) after that write the normal code for it
also, don't forget to add the following code:-

```
if (Firebase.setFloat(firebaseData, "/Project_reading/Ultrasonic", distance)){  
    Serial.println("Distance delivered");  
} else{  
    Serial.println("Distance not delivered");  
    Serial.println("Because: " + firebaseData.errorReason());  
}
```

you need to change the distance parameter on the parameter that you need to get the reading.

if there is any misunderstanding you can email me at
"Zeyadgebrill176@gmail.com".

####MIT App Inventor###

first log in the MIT App Inventor and create a new project.

then add the ("nodeMCU(3).aia") that you can find in the project file

(projects ->Import project (.aia) from my computer ...)
then you can add and modify your needs for the project.