**CLOUD MESSENGER**

The aim of this project is to design a cloud messenger using Arduino IoT cloud and NodeMCU board. To build the project, our required components are,

* NodeMCU 0.1 ESP12 Module

**Introduction:**

The term messenger may refer to any kind of communication over the Internet that offers a real-time transmission of text messages from sender to receiver. Chat messages are generally short in order to enable other participants to respond quickly. Thereby, a feeling similar to a spoken conversation is created, which distinguishes chatting from other text-based online communication forms such as Internet forums and email. Online chat may address point-to-point communications as well as multicast communications from one sender to other receivers or may be a feature of a web conferencing service. Online chat in a less stringent definition may be primarily any direct text-based or video-based (webcams), one-on-one chat or one-to-many group chat (formally also known as synchronous conferencing), using tools such as instant messengers, Internet Relay Chat (IRC), talkers and possibly MUDs or other online games. The expression online chat comes from the word chat which means "informal conversation". Online chat includes web-based applications that allow communication – often directly addressed, but anonymous between users in a multi-user environment. Web conferencing is a more specific online service, that is often sold as a service, hosted on a web server controlled by the vendor.

**Working:**

This IoT based cloud messenger will allow two persons to communicate each other by sending messages and several emojis over a messenger widget created on the Arduino IoT cloud dashboard. The messenger is internet connected so that the persons can send or receive messages from anywhere in the world. The working of the messenger is so simple, we have to create a messenger widget on the dashboard of Arduino IoT cloud and write corresponding sketch for the application. Once the program is installed, there is an application available on both play store and app store called “Arduino IoT remote”, people can login to the created dashboard from the application and access the messenger widget. The next step is to send/receive messages.