# ***Smart billing system for water suppliers***

**Objective:**

Smart billing system for water suppliers is web based application system.It is the future of billing system i.e a customer receives water by paying the bills through RFID tags.

**Hardware and software requirements:**

Module1-hardware:

* ESP8266-12E module
* RFID Reader
* RFID cards
* Bread board
* Jumper wires

Module2-software:

* ARDUINO IDE
* HTML,JAVA SCRIPT

**PROJECT DESCRIPTION:**

* Now a days metropolitan cities opertes water tanker service for delivery to residents.
* The facilitate the water to residents.The person needs to pay the bill for the water that the people have used and pay for it.
* Some times there will be a long queue that one needs to wait in order to get the water supplies bills paid.
* The billing system for water suppliers will help the local government and private institutions to pay the bills without bribing .
* By using the RFID (RADIO FREQUENCY IDENTIFICATION)technology we can access the data easily.we can pay the bills by using RFID tags.
* By scanning the card user wants to enter the details about how much quantity of water required.
* If customer entered the details through the mobile app,the price which we have to pay for that quantity of water is transferred to the supplier and the remaining balance is supposed to be display on mobile app.

**PROJECT HIGHLIGHTS:**

* RFID technology
* Integrating RFID module with NODEMCU
* Reading the data from RFID cards
* Sending http request to cloud platform
* Creating web application

**CONCLUSION:**

This proposed system gives the information about the design of RFID based water billing system.It will estimate the quantity of water required for annual use.Based on this statistics we can decrease the water wastage.

Proposed system will provide accurate and real time water billing system.This overcomes existing systems in terms of cost and manpower required.