**V Semester Mini Project**

**Synopsis**

**Water Bill Generation System**

### It is a web application that generates the water bill automatically at regular interval of time. The generated water bill includes amount to be paid according to the usage of water by specific user. The web portal will allow users to monitor there house or building water consumption at every minute and also helps them to keep track of previous water consumption details. system is user friendly that enables the user to clearly understand the system and helps him for easy payment. It reduces the manual work of generating bill using paper and also found to be echo-friendly. Since nowadays internet plays a major role, this system helps in easy and quick access using internet and thus enables the user community to work smart using new technology.

**Objectives**

* Reduces manual work
* Minimizes the entry of incorrect data.
* Bill can be generated automatically on monthly basis
* Generation of result is fast and accurate
* The open system enables user to view his daily usage
* Minimizes the work of employee while generating bill

The aim of water bill generation system is to generate the water bill regularly on monthly basis automatically. User will login to his account based on unique id provided to view his bill and can pay the bill through online. This is echo friendly and also helps the water bill generating department to maintain all the records easily using database. The process is faster and easy to use for both employee and also user.

**Software requirements**

* Node.js, Angular.js
* NetBeans 8.2
* MongoDB
* XAMPP

**Hardware requirements**

* 2GB RAM
* 20 GB Hard disk
* Windows 7/8/8.1/10, Ubuntu 14.04/16.04/18.04

**Expected outcomes**

The outcome of the project is:

**“To minimize the manual work of generating and maintaining water bill and also easy and quick way of payment.”**

* Reduces the overhead work of employee
* We can easily view the progress graphically based on month or day

**Future Enhancement**

Creating a wallet for user and enable him to pay the bill generated easily.

USN: 1RV16MCA47

Name:Vageesha km

USN: 1RV16MCA53

Name: Vijay Babu

Guided By:

Dr. B.Renuka Prasad