# Kissan-KIOSK For Rural Areas (Farmer Guide)

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**Abstract**: A Kissan-Kiosk is a computing unit which consists of both software and specialized hardware, through which we can access the bill status, bill payments, agriculture updates and soil testing and crop advisory for farmers. These in past looked like telephone booths, but now embraced by development they are trying to improve their services to the customers. These systems are largely placed in places having high transactions and places which are easily reachable by farmers like shops, hotel lobbies, and many more. Combining new technologies has enabled these to do many functions like bill payments, in this project Kiosks enable users to pay electricity bill, water bill, phone bill etc. We can extend the kiosks application for various platforms like tourist places to guide the tourists, railway stations to display the train information and ticket vending, in hospitals to vend medicines, in educational institutions to inform the campus information**.**

**Keywords**: Bills, Kiosk, Payment, pH, RFID, Schemes

## I. INTRODUCTION

Bill payments are one of the unavoidable tasks that have to be ensured without any fail, we are facing problems like Rush/Queue during payments, it will take lot of time to make the payment. And also today we are having number of online payment apps but according to a survey, as of July (2018) 43,088 out of 5,97,618 villages (as per census 2011) in the country have no proper internet connection to make payments through online .People facing inconvenience during the bill Payments in rural areas. In order to reduce the inconvenience during bill payments, Bill payment Kiosk Machine has been designed to make this task convenient, which provides integrated bill payment services through Kiosk.

This is a multi-purpose Kiosk which ensure bill payments under one roof by providing freedom from long queues, fast billing services, ensuring high security for collecting cash, it facilitates multiple modes of payments. To reduce the inconvenience during bill payments in rural areas, where the area do not have internet connection properly, in order to help those people we are going to design this Kiosk.

This kiosk accepts any type of bill it may be Electricity bill, Water bill, Phone bill. Another reason for this project is, Agriculture plays a pivotal role in the economic development in India.

## II. LITERATURE SURVEY

Mr. K.KANNAN-2013 International Journal of Scientific & Engineering Research Title: SECURED PIN ENTRY METHOD FOR ATM USING MICROCONTROLLER In this Paper they have proposed the use of embedded system and basic visual programming to build a secured ATM transaction system in a better and easy manner.

The Bank provides card to the user and gives random number, a pseudo random code is sent to the card users when they insert their cards in the ATM machine using their phone number. In order to continue their transaction, the users must enter the code received through mobile. If the code entered is incorrect then ATM machine gets locked. This will prevent unauthorized access to the bank account and misuse of lost card by the intruders. This will provide one more layer of security for the account.[1]

Akshay Badhe-2018, International Journal on Future Revolution in Communication and Computer Science Engineering Title: Smart Agriculture and the Soil Nutrient Detection System using IoT Agriculture development with new technology is very much useful for farmers as it increase the yield. In this technological era, farming without testing soil and without knowledge about the crops will results tin lowering the yield, thereby results in loss to the farmers.[2]

Different technologies and sensors. Different sensors are used to measure the soil moisture, temperature, pHvalue of water source and humidity. The information from the sensors is sent to the ADC then it send to the cloud through Raspberry pi. Finally we can save the information to the cloud and also we can see in mobile phone as well as laptop. Using this information we can know which crop is suitable for the given soil sample. In this way the technology aids farmers to get the exact information about the soil and also it makes the soil testing procedure a lot easier.[3]
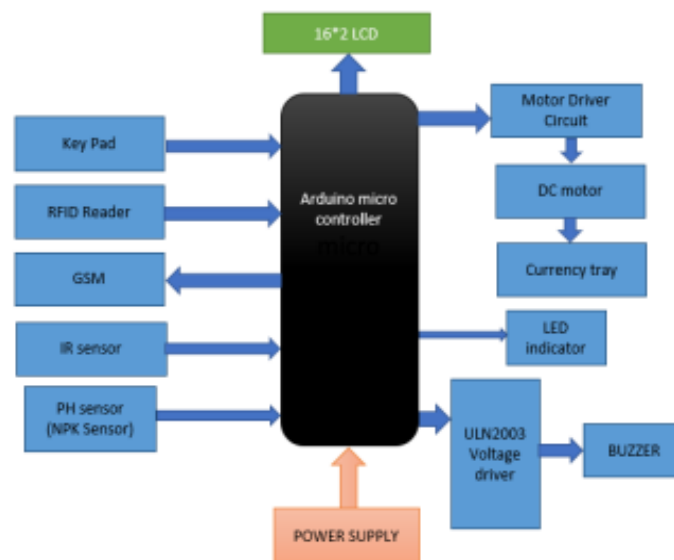
it makes the soil testing procedure a lot easier. 3. Kanthimathi-2015 International Journal of Advanced Research Trends in Engineering and Technology (IJARTET) Title: GSM Based Automatic Electricity Billing System Using GSM technology a meter can be designed which reads the information automatically. The GSM module is interfaced with embedded micro controller. The system is installed in home, and a micro controller is fitted with energy meter. The system senses the information from the meter fitted. The sensed information is transferred to GSM module using an external serial port.[4]

The processor executes the required codes to send the message to the system using GSM module. One more system is installed in EB office, where the authority is with that office. They will send the request to the system installed in homes. Later using GSM module, a unit signal is sent to the office.

Based on the received information, the customer will receive bill information from Authority officer at the office. The power supply to the house will be turned off by giving command to the microcontroller by sending message through GSM module, if the bill is not paid before the time given. Once bill is paid the power supply is given to the customer. Here Power management concept is introduced. Facing problems during bill payments (Queue/Rush).[5]

Most of the rural areas do not have internet connection properly to make the payments in online. And most of the people still not using smartphones to make the payments. Owing to insufficient knowledge of the geographical area and inability to foresee the weather, farmers incur losses due to poor quality of crops. Owing to insufficient knowledge of the geographical area and inability to foresee the weather, farmers incur losses due to poor quality of crops. With this project, we hope to put forth certain ideas that could prove profitable to the farmers.[6]

s. The Kissan -Kiosk provides information to the farmer based on the soil quality as to what crop is best suited to be grown. The Kissan-Kiosk assesses the soil sample and provides the NPK values of it. The KissanKiosk also keeps the farmer well informed about the government schemes, loans and subsidies available that could prove beneficial to him.[7]



## III. CONCLUSION

Kiosk is a machine used to guide people without human interference. In this project we are designing a kiosk, which is helpful for bill payments and farmers in rural areas.

Kiosks are majorly installed at locations with high movements of people so in future we can do similar types of kiosks which is used in historical places to guide the visitors, in colleges to give information about colleges, in hospitals to vend medicines, in railway stations, etc. Kiosks reduces the man work and they are easy to handle by the people.

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