



Bitcoin - New Kind Of Money

Bitcoin is a Decentralized digital currency that uses peer-to-peer technology to operate with no central authority or banks, managing transactions and the issuing of bitcoins is carried out collectively by the network. Bitcoin is open-source, its design being public. Nobody owns or controls Bitcoin and everyone can take part. Through many of its unique properties, Bitcoin allows exciting uses that could not be covered by any previous payment system. Bitcoin can be used to build amazing things or just answer common needs. It is the simplest of all payment systems. Unless payment needs to be associated with automatic invoices, accepting money is as simple as sending a bitcoin link or displaying a QR code. This simple setup is within reach of any user and can fulfill the needs of a good range of clients. When done publicly, it is especially suitable for transparent donations and tips.



It involves a lot of manual work and there are no specific high-tech technologies to automate the job. An Automated Public Distribution System (ADPS) offers an effective solution to all the issues associated with the existing system.

The APDS machine, similar in operation to an ATM, can be used by a customer who swipes his smart RFID card at an outlet to purchase his quota of ration. He then enters his confidential PIN number. If a match is achieved, all the customer details are downloaded from the central remote server and displayed. The entire details of each customer, including the latest transactions and allotted quota of grocery are stored in a database that is located in the server which can be accessed by means of an Ethernet connection.

The central processing unit is constituted by **Beagle Bone Black** which controls the entire process flow. It has in-built ADCs and PWM modules, easy display interfaces and networking capabilities.

Contact Lens That Can Check Sugar Levels

Novartis Pharmaceutical has agreed a deal with Google to develop its "smart" contact lens which will continuously monitor the glucose levels of diabetic patients via their tears and send that information to a mobile device.

Automated Public Distribution System

Public distribution system is a controversial office involving corruption & illegal smuggling of goods. The sight of the citizens lined up in long queues, weathering all kind of climate, merely to obtain their entitlements is a very sorry picture indeed. There is always difficulty for the checking officials to go through the stocks available and the goods given in a register and find out irregularities.

The user can enter the quantity and type of subsidy to be availed. The system compares the entered quantity with his allotted quota. If it is found that the user has enough quantity remaining in his allotted quota, the system opens the valve of the container towards the load cell. A load cell produces an electrical signal output corresponding to the force applied to it, which in turn is proportional to the weight of the object being measured. To stabilise the opening and closing of valves a servo motor is used whose position varies with the weight of product. Kerosene or other liquid dispensing is achieved by turning ON the liquid pump for a specified time period which depends on the quantity required for the user. When the items are dispensed the updated account is automatically sent to customer's mobile via GSM module.

This was a main project undertaken by Binoy K Varghese, Jayadev K, Mohammed Aslam, Muhammed Mansoor and Seenu M M of the EC 2014 Batch.

This would allow the patients to continuously monitor their sugar levels. In a country with 65 million diabetic patients and close to 117 million smartphone users, the project has the potential to make much headway.

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