Abstract

India being a developing country its main aim is to provide basic common commodities on subsidy to poor families to meet their fundamental requirements. The existing public distribution system in Ration shops requires manual measurement of quantity and maintenance of record of transactions. Many problems are encountered by the existing system such as 1. Ration distribution to unauthenticated card holders 2. Card holders wasting time in queues for collecting ration for hours 3. Lots of malpractices such as hoarding, black marketing and
overcharging. Human intervention in updating transactions and maintenance of records in ledger is difficult. In this paper, IOT based smart public distribution system proposes an automatic method of distribution of commodities to authenticated card holders. Also, the details of transactions made are maintained in a database. The users need to access to their account through the Smart phone by entering their ID and password. Once they are successfully logged in, they can view the stock availability. This system uses Raspberry-pi as controller and it is implemented with Minutiae extraction based fingerprint matching algorithm which efficiently works with greater accuracy score. Automatic distribution of commodities is achieved by using DC motors controlled directly by Raspberry pi to open and close the valves.

References


Index Terms

   Computer Science   Information System

Keywords

Fingerprint  Raspberry-pi  IoT  PDS