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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
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PROJECT REPORT
ON

"INFORMATION SYSTEM FOR VISUALLY IMPAIRED PEOPLE USING RFID"

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ABSTRACT

Radio Frequency Identifier is an identification method relying on storing and remotely retrieving data using frequency matching method. The RFID has many applications in navigation and location determination for visually impaired people.

We propose an RFID application which helps visually impaired people to travel in the bus independently especially in Metropolitan cities. In this application the visually impaired people can travel from one place to another by bus without the help of a person. A RFID trans-receiver is placed in the bus stop and inside the bus. A visually impaired people are provided with the RFID receiver with voice processor.

When bus enters near the bus stand the receiver which is provided to the visually impaired people catches the radio-frequency of the bus and it is decoded by decoder and corresponding voice data is outputted through the speaker with the help of voice processor. For the visually impaired people sitting inside the bus will get the information of the next bus stop with the help of trans-receiver present in the bus stop. Common people will also get the information of the next bus stop in advance with the help of LCD which is provided in the bus. Projects for visually impaired people on NAVIGATION WHILE ROAD CROSSING and A RFID IMPLEMENTATION FOR LOCATION AND PROXIMITY SENSING FOR THE BLIND USERS have already been implemented. On this basis we are implementing another project for visually impaired people using RFID which is yet to be implemented.