

VISUAL PRODUCT IDENTIFICATION FOR BLIND

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ABSTRACT

It is hard for visionless individuals to peruse any kind of text like items or labels and more. In this manner, the advancement of framework that can give a sound yield to them is fundamental so they can undoubtedly move and take care of their job with no kind of hindrance. This application is for visionless individuals mainly for shopping so that it provides details written on tag through speech. Not many items can't keep going forever, particularly with regards to food and medicines it is important to know the the description, manufacture also, expiry date of items while purchasing. To give customers a sign of when the items should be utilized by, an expiry date is

printed on the item. While remaining at home alone, if the outwardly disabled burns-through some terminated food or takes some terminated prescription, the outcome could even be life undermining. Keeping this in mind, this application depicts the advancement of Quick Response Code and items recognition through speech. Hence we have created an application by distinguishing QR code from which the client gets data of items through discourse with the assistance of text-to-speech. From this application the clients can buy the items easily through hearing the product information.

Keywords: - QR Code, Visionless, text, speech

1. INTRODUCTION

Android in cell phone is turning into the significant part of individuals' life. A client having a camera telephone prepared with the right peruser programming can examine Qr code and translate it to dispatch and divert a telephone's program to an implanted URL or to determine text inserted in the checked QR code. The advantage of such an element in current cell phones can be additionally reached out to incorporate visually impaired also, Visually Impaired (VI) individuals. Additionally, with the presentation of discourse innovations in mobile phones, for example, the utilization of Nuance TALKS, which changes over the showed text on the versatile handset into discourse, the visually impaired and VI individual can undoubtedly connect with the portable handset as a located individual do. A framework is required for outwardly hindered to distinguish the item utilizing QRcode with voice declaration utilizing a Smartphone. The inspiration driving taking this undertaking is that the information on the QR codes are most certainly not so effectively justifiable without past information on the way of their arrangement. Speedy Response Code (QR Code) as another character is utilized on the planet, it would seem that a little box which incorporates an irregular arrangement of dark and white pixels. Despite the fact that QR Code is a small image, a site address, and determinations of specific items or individual data can be remembered for this image. In expansion different data gets to should be possible through advanced cells.

This paper shows an Android-based framework for ID of articles dependent on perusing of QR codes. The framework is created to work with ID of different things that exist in as of now made

stock. This paper shows an Android-based framework for distinguishing proof of articles dependent on perusing of QR codes. The framework is created to work with distinguishing proof of different things that exist in as of now made stock. The planned framework is made out of a Android application, that can be run on cell phones or tablet PCs. It is shown how this framework can be utilized for inventorying the PC hardware, however the use of the framework isn't restricted exclusively to this. This paper shows an Android-based framework for distinguishing proof of items dependent on perusing of QR codes.

2. LITERATURE SURVEY

In this paper QR Code and text pressure calculation SMAZ and TTS(Text to speech synthesis)is utilized Here a framework is fostered that peruses the story books ,its area data thus on. The QR Code is examined with assistance of libraries of Zxing android which is utilized as the checking library and similarly for text to discourse the libraries are used,the packed QR Code is reestablished through versatile application and data is given to outwardly impaired people, this application additionally gives direction to the of area of the book in the library for outwardly impaired individual.[1]

The proposed framework in this paper [2] has zeroed in on assisting the visually impaired individuals with finding the standardized identification and the lapse date on the item package,after finding the standardized tag on the bundling it is decoded and OCR(Optical Character Recognition) procedure is used to acquire the required data of the product, here the content

discovery strategy is utilized to separate the expirydate on the bundling.

The proposed[3] framework utilizes the

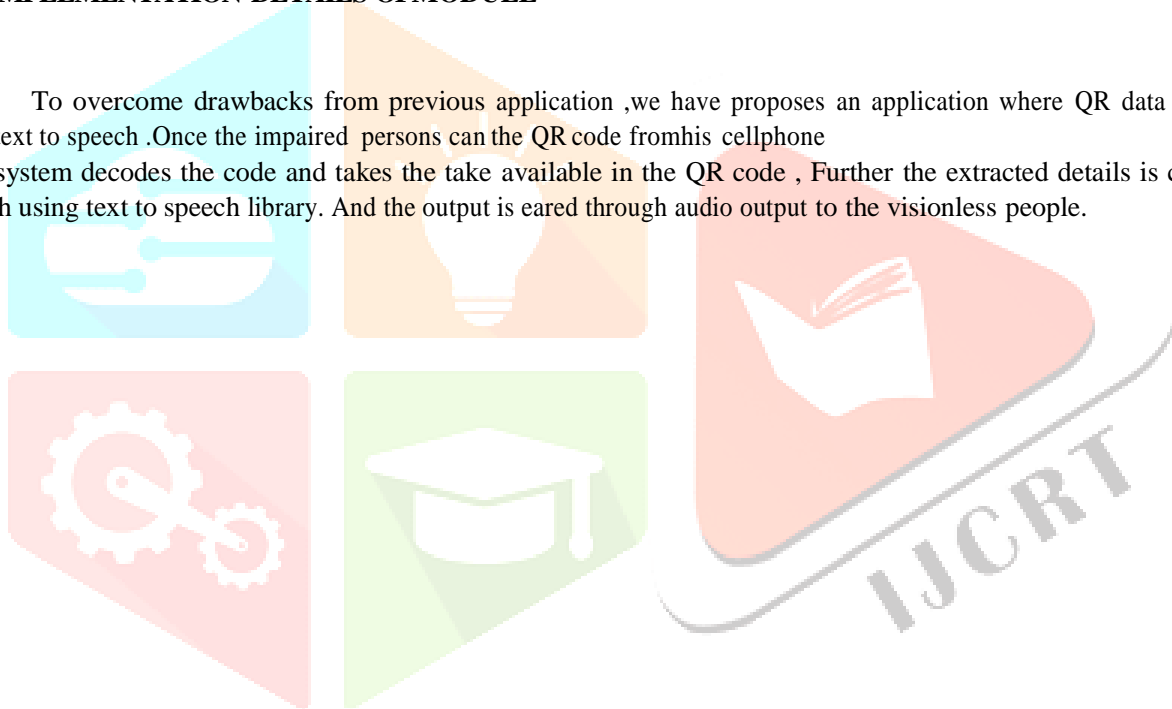
equal portion locator that is utilized to distinguish the standardized tag, the scanner tag is perceived with the assistance of telephone application that gives the point by point data of the item continuously to help outwardly hindered. The standardized identification picture is been caught by the client as the contribution to separate the item data. The input picture is taken care of to the line fragment identification and important data from the standardized identification is trimmed and given in type of sound to the outwardly visually impaired individual.

3. OBJECTIVES

To develop an application that would help to visionless peoples to buy the products depending on the product details. To convert QR code data to speech. To provide security of information. Since security of barcode is questionable.

4. IMPLEMENTATION DETAILS OFMODULE

To overcome drawbacks from previous application ,we have proposes an application where QR data is converted from text to speech .Once the impaired persons can the QR code fromhis cellphone , the system decodes the code and takes the take available in the QR code , Further the extracted details is converted to speech using text to speech library. And the output is eared through audio output to the visionless people.



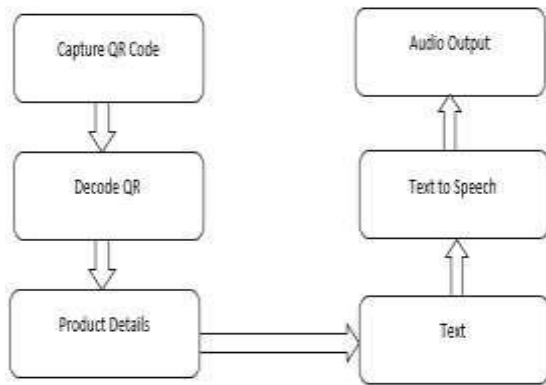


Fig: - System Architecture

5. CONCLUSION

The proposed framework gives simplicity to shopping for impaired individuals, since they can purchase the items depending on the product details. With the help of this application. The visually impaired or the blind person can avoid consuming the expired product or product containing allergic substance by gaining prior knowledge of the product through speech.

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