



INTERACTIVE E_COMMERCE SHOPPING SITE FOR VISUALLY IMPAIRED PEOPLE

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Abstract: The basic idea of this project is to develop an e-commerce site which can be used by all kind of peoples. This website will be useful to anyone who wants to purchase items using internet. The main thing in this idea is all kind of customer will get the service of online shopping and home deliveries from their favourite stores. This was the best way of shopping without any physical difficulties. One of the main purposes of online purchasing is we can buy any products from almost any country in the world, there are no borders in the online world. It is designed for the customer satisfaction, and for the better shopping experience than the traditional offline shopping.

Keywords: shopping site for visually impaired, Online Shopping, interactive shopping, e-commerce website

I. INTRODUCTION

In recent years online shopping plays a vital role in between peoples. Online shopping is the best way of shopping without any difficulties. Online shopping is a form of electronic shopping, which allows the people to buy goods or services from the vendors through internet. Customers need to search for a product of interest by visiting the website of the seller directly. Customer can use computers, or other electronic devices like mobile phones, tablets, laptops for online shopping. Customer can even make payment through online, there are lots of platforms are available for the customer who wants to make a payment through internet.

In this 2021, around the world population [78 billion] there are 285million peoples are visually impaired. In this count there are 39million peoples who are completely blind and further 270million are moderate to serve visual impairment problem. Every people would love to shop while these people need someone's guidance to shop either in online or offline. Here this system is designed to assist the people with visual impairment. This system contains new features such as voice recognition, speech to text convertors to make these people to shop on their own.

II. EXISTING SYSTEM

- Convenience of shopping at home.
- Demo video, and detailed product descriptions.
- People Can purchased products from anywhere, anytime.
- People can compare brands and price of product.

A. DISADVANTAGES OF EXISTING SYSTEM:

- ~ Not considering people with visual impairments.
- ~ People with visual impairments can use this only with the help of someone

III. PROPOSED SYSTEM

To remove those cons from the existing system, we proposed a new system with lots of benefits and functionalities. In this proposed system anyone can place an order at any time, if they don't want to go out for shopping. This proposed system can allow even a visually impaired people to use it without any assistants. By using the built-in screen reader, and the speech recognition feature in the website they can use it compatibly and easily. Customers can make a direct contact with vendors for the product enquiries, and it also includes a video call facility for the customers who wants to see their product.

A. SPECIALLY ADDED FEATURES FOR VISUALLY CHALLENGED PEOPLES IN PROPOSED SYSTEM:

- Speech recognition/ voice search.
- Narrator or screen reader.
- Every instruction will be given in audio mode; they need to hear those instructions and follow them.

**B. KINDS OF USERS IN PROPOSED SYSTEM:**

- Administrators: They can add product and administer Vendors, and they can see the customer review and daily sales.
- Vendors or sellers: They can add the products to the database, and they can manage them.
- End Users or customers: They can view the products and buy the products, they also can write a review about the product.

IV. MODULES

- Membering module
- VIP assistant module
- Master maintenance module
- Payment actions module

A. MODULE DISCRPTION:

1. **MEMBERING MODULE:** It consists of login options for the existing users and sign up options for new users to sign up the website.
2. **VIP ASSISTANT MODULE:** Here VIP is an abbreviation of Visually Impaired People. This module contains a feature to assist and guide a user.
3. **MASTER MAINTAINENCE MODULE:** This module consists of information about the products, its description and services provided by the vendors.
4. **PAYMENT ACTIONS MODULE:** After purchasing a product checkout processing is carried out and the details about the modes of payment are described.

V. CONCLUSION & FUTURE SCOPE

There are many different segments available for online stores, which are affected by constant evolutions. To meet the new challenges and requirements of the market, the business owners need to think and make better decisions. We are developing a system for visual impaired people so that they can do online shopping. The system accept speech convert it into text format and display the desired result. This will help the blind people to lead an independent life.

The scope of the project includes that what all future enhancements can be done in this system to make it more feasible to user: -

- Multilingual support can be provided so that it can be understandable by the person of any language.
- More graphics can be added to make it more user-friendly and understandable.
- More features can be provided to make shopping experience easier.

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