

Sahara for Divyangjan

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Abstract

This is a web-based application named ‘Sahara for Divyangjan’ which gives details on subjects such as schemes, scholarships and institutional support system at a click of a button. This application aims at providing all relevant information pertaining to the Department of Empowerment of Persons with Disabilities (DEPwD) including its various acts, rules, regulations, schemes, employment opportunities. In which we include voice assistance or in picturize format for different disable ones. It also comes with a text to speech converter through which an disabled person can access the website easily without any hesitation.

Key-Words: - Online Govt. Scheme checker, Reactjs, DEPwD.

Introduction

This project provides an interface for the disabled person and their caretaker in which they can get all the information related to the schemes launched for the disabled’s by the government. This website provides voice assistance for the blind person who cannot read the schemes so the website will provide an assistance which will read all the schemes .Here users can add the schemes and this will get added to the database only by validating the information about the schemes. This website is good for the caretakers who want to take benefits of this schemes launched by the government.

Problem Formulation

People with motor disabilities must face many barriers and obstacles in their daily lives, making it difficult to perform everyday tasks. The purpose of this work is to make them aware about the schemes by the government for them to improve their living conditions by providing an app with accessibility information in an updated, reliable and friendly form. The main objective of our project is to provide an easy way to use such applications for various divyangjan brothers and sisters by creating an enabling environment or to ensure equal opportunities, equity and social justice and also to empower persons with disabilities.

Literature Review

There are many apps in marketplace for disabled ones but they are only on their mental or physical exercise, voice assist , and for blind and our government also launch an app which give details on schemes, scholarship and institutional support systems at the click of a button :”Divyang Sarathi” By the existing system survey there is no such web-based application like which shows government schemes for disable persons with voice assist or with great functionality .

Methodology

Divyangjan is a web based application for disable people, it provides information of various schemes by the government for disable people .Technology used here is MERN stack.

Person with deafness ,blindness can use this app directly without any help as for blind people it provides voice controlling of the website and for the deaf it provides illustration and images.

Website provide various options to user like

1. get all schemes
2. filter schemes on the basis of voice
3. filter schemes by choosing any of the option available
4. user can get helpful link

Steps to use website:

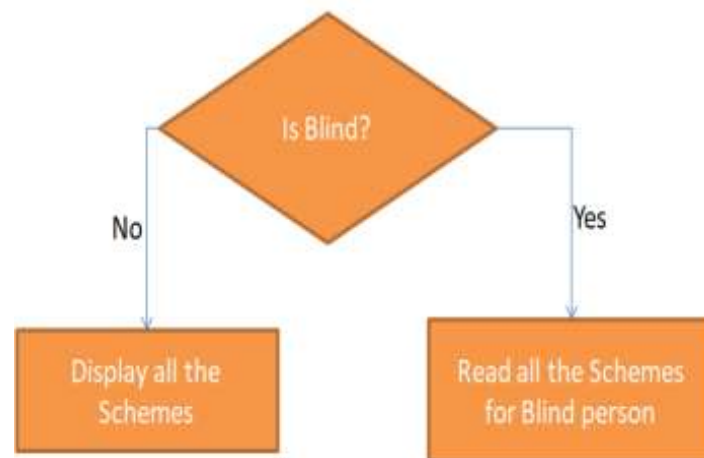
1. Select any of the options mentioned above
2. If user choose to filter schemes
3. User can choose options by clicking on cards or use voice to choose
4. On the basis of the type chosen scheme will get filtered and a list of scheme page will appear.



MERN STACK

- 1.MERN is MongoDB,ExpressJS,ReactJS,NodeJS whole website is composed of this technology .MongoDB is NO-SQL database use to store data.ExpressJS,NodeJS is backend languages .ReactJS is frontend language.
- 2.MERN is easy to learn ,faster and provides a wide range of functionality.
- 3.Javascript functions are used to convert text to speech and speech to text.
- 4.Use of javascript is there in making website blind people friendly by providing functionality of controlling schemes filtering by voice.

The following flow chart shows how websites respond with blind people.



Result Discussions

The main objective of this project is to provide help to the disable people. This website provides schemes to the user and help them. User can get disability either by choosing from the option or using voice assistant. Voice assistant is good for blind people who can't see and click on options through voice they can filter the schemes. On choosing schemes the user will navigate to the schemes page where all schemes are listed. Here for blind people it provides reading schemes facility. On clicking any of the scheme users can get a detailed description. Website also provides helpful links. As this is the first implementation and there is no api for the same we have created a whole database and gathered scheme information day by day. functionality this website provides are-

1. Filter Schemes on the basis of type of disability
2. Filter Schemes on the basis of voice
3. Get all schemes information
4. Get helpful links

Conclusion

The main objective of this project is to provide information about various schemes provided by the government to the disabled person. Aware them about the schemes and help them by providing the information so that they can use it. Our website cannot be used by disable person alone they still need help for searching. All schemes may not be present as we are adding schemes in our database data.json file. People with motor disabilities must face many barriers and obstacles in their daily lives, making it difficult to perform everyday tasks. The purpose of this work is to make aware them about the schemes by the government for them to improve their living conditions by providing an app with accessibility information in an updated, reliable and friendly form. The scope of our project is to make app in such a way that any disable person can access it hasslefree. With that they can find every scheme which is for them by voice assist or by pictORIZATION.

Acknowledgment

There are a number of people without whom this project's work would not have been feasible. Their high academic standards and personal integrity provided me with continuous guidance and support.

We owe a debt of sincere gratitude, deep sense of reverence and respect to our guide and mentor Prof Bharti Bhattad, Professor, AITR, Indore for his motivation, sagacious guidance, constant encouragement, vigilant supervision and valuable critical appreciation throughout this project work, which helped us to successfully complete the project on time.

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