

A Proposal

For

Website for Blind People

By

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Executive Summary:

Project title	Website for Blind People
i. Designation of the proposer	Student of TE-CMPN (2020-21 batch)
ii. Postal address of the proposer College	Department of CMPN, Shree L. R. Tiwari Of Engineering, Thane-401107
iii. Duration of the project	60 days
iv. Amount of money needed	a. Non-recurring: I) Hardware Rs. 1.40 lakh / year ii) Software Rs. 1.00 lakh / year b. Recurring I. Rs. 19 lakh / year
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Total	Rs. 21.4 lakh / year
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Brief Description:

The main purpose of this proposal is to embedding new technology and techniques in system so that it can automatically recognizes clothing patterns and colors which will help visually challenged people to buy their desired products online.

Our work is broadly related to two broad categories of clothing pattern. One is in texture recognition and the other in clothes recognition.

In texture recognition, the research is mostly interested in identifying natural material surfaces like marble, wood grains, tree barks and so on.

Natural textures tend to be uniform and finer in structure. The other works involve classification of clothes and their styles. A sub-category of that is classification by the textile pattern and motifs such as floral, plaids, geometric and so on.

This system processes the voice output, and ask for the input by pressing the button of their desire choices so that they no need to take favor from others.

All kind of instructions will be provided to them in the form of audio, they need to hear and follow the instructions.

Statement of the Problem:

New technology and techniques are implemented in Ecommerce websites to visually present information due to significant growth in shopping worldwide.

But these techniques have accessibility problem for people with disabilities therefore in this system Waterfall model techniques have introduced in which the outcome of one phase acts as the input for the next phase sequentially.

This means that any phase in the development process begins only if the previous phase is complete.

Due to the advancement done in this system it allows customer satisfaction of all ages with disabilities

Objectives:

The objective of this proposal is to know how people with visual impairments can be educated to learn how to live independently. We can gain a detailed understanding of their daily lives, travelling experiences and special needs for web design of people with visual impairments.

The system comprises of two major modules with their sub-modules as follows:

1. Admin: -

- **Login:** Admin can login by using credentials.
- **Manage Products:** Admin can manage products by adding, updating or removing it.
- **View Users:** Admin can view the users.
- **View Orders:** Admin can also view the order placed by users.

2. User: -

- **Registration:** User need to register to obtain credentials.
- **Login:** User can login using id and password.
- **Product Details:** User can hear the product details with category.
- **Add to Cart & Buy Now:** User can add to cart for placing the order.
- **Recommendations:** User will also get to hear recommendations.

Technical Plan:

In our proposed system waterfall model is used which begins with customer specifications of requirements and progress through different activities like planning, modelling, construction and deployment and in completed software product.

This project is passing through different phases of software development under the supervision of our software team which tracks the estimation related to the project.

Completions of this proposed system will take 60 days as per our plan but it may delay if some risk is detected early before deployment of projects.

The system with long lifetime is always better and more preferable. As the hardware technology system changes the software has to change for the purpose of compatibility

Therefore, by using objects-oriented programming language like java it's possible to develop reusable module.

Equipment	Cost Estimate (in Rs)	Equipment Justification
4GB Ram	3,172	Provides sufficient amount of memory to work
Intel (R) Celeron(R) CPU J3060 @. 1.60GHZ	38,000	Computes logical instruction very fast
Router	2000	Routers normally connect LANs and WANs together and have a dynamically updating routing table based on which they make decisions on routing the data packets.
Printer	2500	A printer is a device that accepts text and graphic output from a computer and transfers the information to paper.
Gateway	3900	Gateways are also called protocol converters and can operate at any network layer.
Lab Environment	30,000	Software team needs well maintained place with all networking devices connected to carry out task.
Computer	75000	More number of computers required.
Strong Internet Connectivity provided by spectrum Business	59.99 per mbps	Internet is essential in development of website
(100 to 940 mbps) switch	20,000	A switch is a multiport device that improves network efficiency
Total	2,34,562	

Management Plan:

The installation and setup of all the networking devices software would be done by our network administrator of our organization.

Our technical person would provide all kind of assistance to the working people and guide them until they adjust themselves in working environment

The supervision and management activities would be handled by some company member. He will look after all the activities carried out in software development process and keep different processes related to our project on track.

Cost Estimate:

A total sum of Rs 2.4 lakh is required for non-recurring expenditure. The details of the same have been provided in the technical plan section.

An estimated sum of Rs. 19.00 lakh per annum is required for recurring expenditure. The breakup is given below:

I. Materials required for maintenance	Rs. 15.00 lakh / year
II. Electricity	Rs. 4.00 lakh / year

Conclusion:

The intended objectives were successfully achieved in the prototype model developed. The developed product is easy to use, economical and does not require any special training. This model is very effective and useful for the visually impaired people. By using this fully automated product, they can stand on their own leg and they need not depend on others for shopping. It overcomes the hesitation and giving confidence for purchasing their shopping needs.

This system helps the visually impaired people to enjoy their shopping experience and to buy the products they wish to buy. This project highlights the use of wireless personal gadgets in everyday life. Being specific personal gadget for product identification, navigation was designed. It makes the better use of RFID and Zigbee technologies for providing the smart environment for the visually impaired.

As a future scope, the size and cost may get reduced further. A robot can be developed to pick the products from the shelves and finally hand it over to billing section so that the manual work of packing goods may be avoided. The RFID range can be increased. The system can be made in such a way that the product name spelt by the customer can be converted to text and the way to reach the corresponding shelf can be provided to the use.