Abstract

The requirement/need for the development of accessible web site and web application for the disability people is vital, especially for the people with vision disabilities. In this context, this
work proposes a browser based accessibility model which converts the web page which is received from a server into a web page that can be accessible by the low vision user. The browser processes the actual web page and displays it according to the accessibility capabilities of a particular low vision user. In order to know a particular user’s accessibility capabilities, different tests are conducted before the start of the session, and these capabilities are applied to the browser dynamically before the web page is displayed. For hearing impaired users, if any audio content is found then it is conveyed to the users in the textual form. The final web page which is obtained after this process is validated using the W3C standard web page validators.

Reference

- Kevin L. Crow Fmy Types of Disabilities: Their Impact on Online Learning, Volume 52, Number 1, TechTrends, January/February 2008.

Index Terms

Computer Science  
Web Applications
Key words

Accessibility  Web browser  Visual impairment
Hearing impairment
Usability