



DESIGN AND IMPLEMENTATION OF WAVE: AN INNOVATIVE AND ACCESSIBLE WEB BROWSER

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ABSTRACT

A web browser is a software application for retrieving, presenting and traversing information resources on the World Wide Web (WWW). An information resource is identified and it might be a web page, image, video or any other fragment of content. A browser is software that is used to access the internet. A browser allows apiece individual to visit websites and accomplish the concerned activities, viz; login, view multimedia, link from one site to another, visit one page from another, print, send and receive mails, etc.

The concept of user friendly browsing is a tool adhered in the web browser coined as WAVE. Effective methodologies are incorporated in the paper, ensuring an assortment of additional features that have been extensively attained. The concept of novel modus operandi for downloader, file conversion, media player, etc. has been designed and implemented in the web browser. Employing and working on WAVE, users would obtain the opportunity to download at a faster rate, convert files in the preferable format, play media player with its own features and especially having an attractive and innovative look and feel about it. With the advent on innovative methodologies apiece day, the need of the moment is an easy to use web browser with exclusive lucidity.

Keywords: Browser, Surfing, World Wide Web, Navigation, Internet, Download, History, Bookmark

I. INTRODUCTION

A web browser is a software application which enables a user to exhibit and interrelate with texts, images, videos, music and other information that could be on a website with apt navigation [1, 2, 3]. Text and images on a web page could contain hyperlinks to other web pages at the same or different website. Web browsers allow a user to quickly access information provided on many web pages at many websites by traversing the links with utmost ease [3, 4, 5].

Web browsers format HTML information for display so that the appearance of a web page might differ amid browsers. Internet Surfing is an essential component in apiece user's diurnal life, pertaining to which the

WAVE furnishes users with apposite prospect to download at a faster rate, convert files in the preferable format, play media player with quality features and fostering attractive and innovative look and feel, as well.

Some salient characteristics of the web browser are:

- Launch of the browser is an attractive affair for the audience
- Innovative concept of browser model and swift navigation
- Downloader with exceedingly fast downloading rate
- File Conversion in preferable format through File Converter
- Media Player with new look and feel
- Miscellaneous feature with shortcuts

II. LITERATURE REVIEW

The section focuses on the browsers available in the market, encouraging the formulation of the concerned paper pertaining to WAVE [4, 5, 6, 7, 8].

There are quite a few browsers available and WAVE is an addition to them with loads of additional features incorporated and engendering enormous expectation amid its prospective users.



Google Chrome – Google Chrome is a freeware web browser developed by Google. It was first released as a beta version for Microsoft Windows. Google Chrome features a minimalistic user interface with its user-interface principles later being implemented into other browsers.



Mozilla Firefox – Mozilla Firefox is a free and open-source web browser developed by Mozilla foundation. Some of its exclusive features include tabbed browsing download manager based on Google service and an integrated search system that uses Yahoo! Search, which is a front end of Microsoft search engine.



Opera Mini – Opera Mini is a web browser designed primarily for mobile phones and personal assistance. Until version 4, it employed the Java ME platform. Opera Mini was derived from the Opera web browser for personal computers which have been publicly available.



Safari – Safari is a web browser developed by Apple based on the Web Kit engine. It was first released in 2003 with Mac OS X Panther, a mobile version included in iOS device since the introduction of the iPhone in 2007. It is a default browser on Apple devices.

III. IMPLEMENTATION

The section focuses mainly on the implementation of the web browser through form modules and their functionalities.



Figure-2: WAVE Start up Page



Figure-3: Web Browsing using WAVE



Figure-4: WAVE Menu Display with Options



Figure-5: Downloading in Progress through WAVE

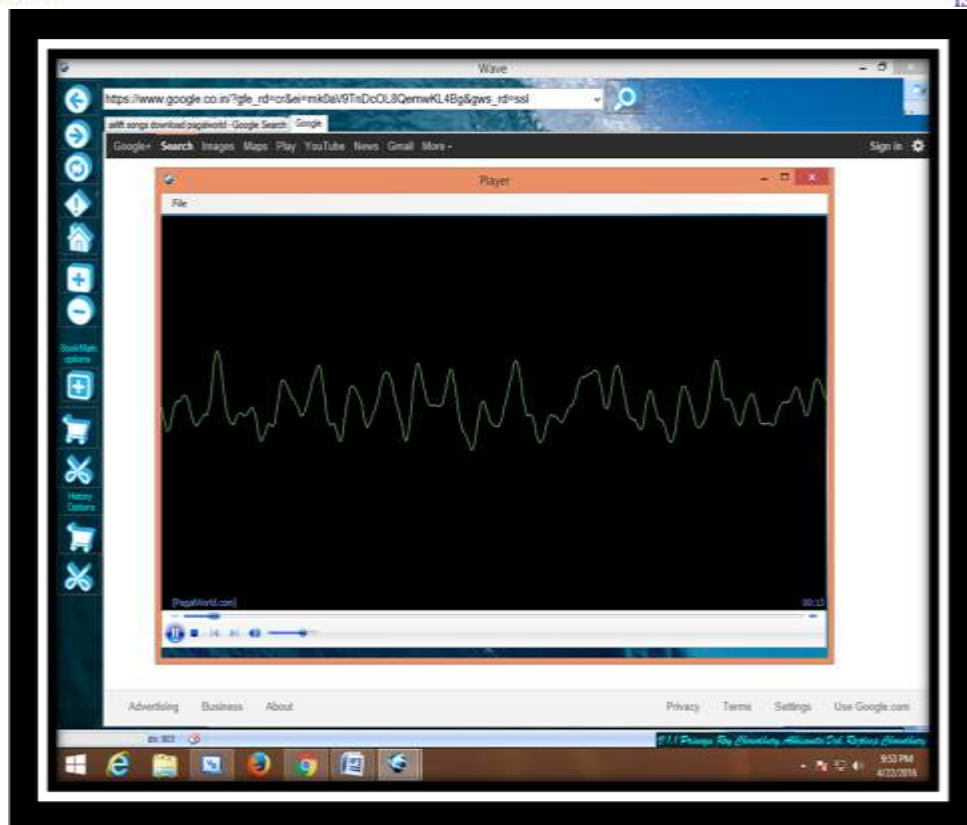


Figure-6: Song Played in Media Player through WAVE

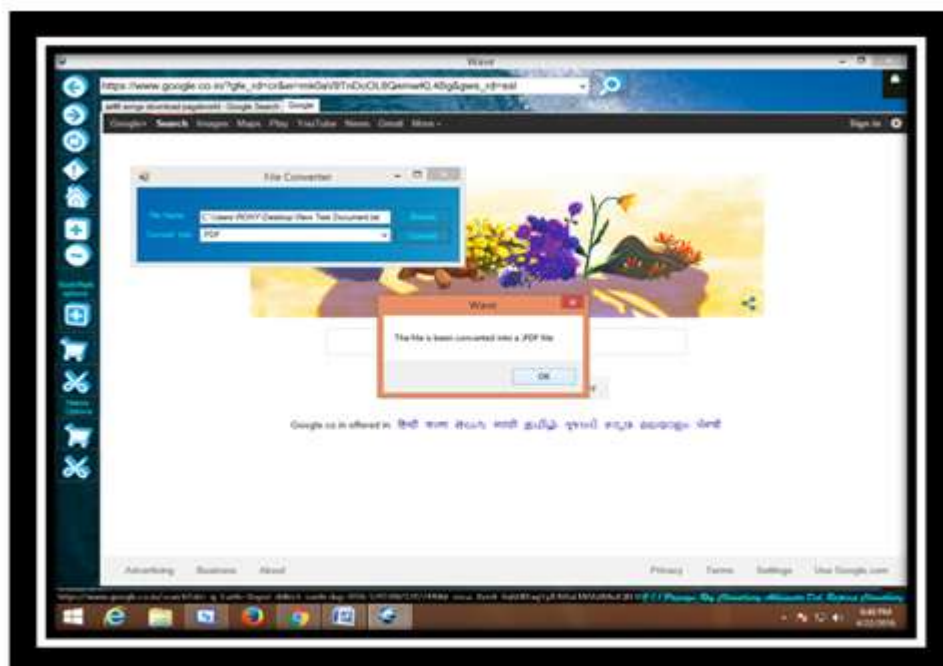
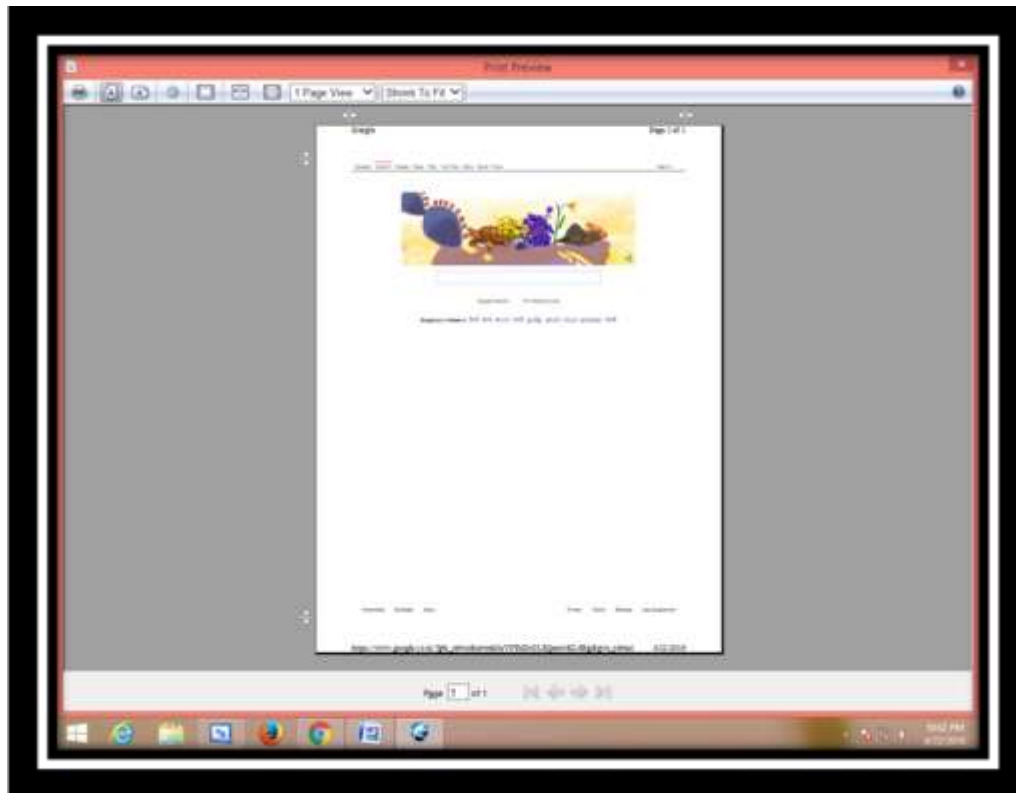


Figure-7: File Conversion Performed in File Converter through WAVE



Figure–8: Print Preview in WAVE

IV. CONCLUSION

The section focuses mainly on the web browser endowing in–built opportunities for having a lucid mode of surfing, along with the use of file converter for conversion of apiece file to any format desirable by the user. The web browser was conceptualized with the notion that it would be an easily accessible browser for apiece individual, whether computer literate and well–versed or a novice user. Moreover, the web browser combines simple extensions of the HTML syntax to allow casual users, without much expertise in computer programming the podium to publish web pages, offering advanced browsing features and affluent visualization.

WAVE is a revolutionized endeavor in the field of computer application and a source of thoughtful creativity.

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