

Abstract

Accessing the Web nowadays in mobile phones has become common and popular worldwide. Most available Web pages are designed for desktop PC and are not suitable for displaying or browsing the large Web pages on mobile phones because of a mobile phone's limited display, memory and processing power.

However due to the growing demand of the market to access Web pages on mobile phones, we developed and designed a new browsing convention to facilitate navigation and accessing Web pages on a mobile phone. A mobile browser has designed and developed using J2ME to display HTML Web pages on a mobile phone to make mobile Web browsing easy and efficient. Not only this mobile browser can access HTML Web pages but also XHTML Web pages. This means we can also access the mobile internet sites; those have been designed and developed specially for mobiles.

We have also proposed and developed an adaptation technique which is based on an overview of the existing Web page. Segmentation Algorithm splits Web pages into small and logically related units of blocks and makes an overview page that fit into the screen of mobile phone.

For obtaining the blocks and making overview page a Web page segmentation server has been developed. This server side utility accesses a Web page from www remote origin server. First it divided this Web page into many blocks using segmentation algorithm then creates a new overview Web page. This overview Web page have links for the blocks of Web pages. By clicking on link we can access particular requested blocks.

In this way we have found a better way to enable easy navigation and browsing of a large Web page on mobile phones.