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Web Operating System

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Abstract
Web based operating system consists of some improved set of applications needed for the future enhancement. We aim on the current attention towards the web operating systems. As we know that the existing operating systems have some limitations, we have improved those with some additional facilities in our Web operating system. Although, this gains attention from the people who directly are involved in the field of internet OS. Many additional applications have been added with extra means of improvement.
Keywords: *Web based OS, Hyper Office, VPN support.*

1. Introduction

Web OS gained popularity in 1999, which was first known as Hyperoffice and later it came to be known as My Web OS. This was found by Berkeley grad Shervin Pishevar and Emory grad Drew Morris. Rapidly gained popularity in the field of operating system is a Web or Online Operating System. This implementation is based on the technology of the Web and on the Internet. Our proposed operating systems have some additional features other than the pre-existing operating system. A Web based OS with core functionalities and that can be integrated with social media. We can built in applications to open native word or PDF documents. It is possible to update or modify the existing applications. It provides more data security, it also facilitates VPN support. It supports advanced file management and improved optimization. Data usage has been reduced to some extent. The above mentioned are some of the features of our proposed web operating system.

2. Modules

Our operating system has 4 modules through which handling is performed.

1. The login module for both user and administrator is been provided which contains their login details. These details are stored in login database with 2 required fields username and password. These are checked with the corresponding values in the database for secured login.
2. Application manager module which is been controlled by the admin, which includes all the currently available applications in the OS. User can submit the application they have created for verification, and the administrator can publish those applications created by the users.
3. Administrator interface module includes the overall design of the OS. The admin can login using his /her Login credentials. They

have the rights to control the activities of the OS.

4. User interface module, which is the home page of the user. User is provided with all the applications available in the OS by logging in to their appropriate account. User has the ability to update, modify or add some features to the available applications in the operating system.

3. Proposed System

We have also included some applications in our operating system, in order to recover from some of the disadvantages of the existing operating systems. Mainly we to includethe "Chat application" which not available in any of the operating systems. This application is similar to that of normal chat, with the corresponding receiver name in the send-to field. The message along with time can be retrieved by the user. The message can be send when the receiver isonline or offline. All the required data of chat application is stored in database.

3.1 Apps

The chat application is specified with "Message" option in the main home page. Then we have another application "Calendar with reminder". Reminder applications is used as the name says for making notes to be reminded in the future. It can remind us about the specific dates in advance when saved by the user on his profile. We have also included "Maps" in our OS, with the appropriate weather in each place. Detailed map can also be used from the OS. "Calculator" is also provided, which includes both simple calculator as well as scientific calculator. There are also other applications included in our operating system, like audio and video players, simple games, and we can integrate this to social media sites like Facebook and Twitter.

3.2 Database

All users are provided their own username and password for the login. These are been stored in appropriate databases created. With this id, user can login in to the account and enter the Web page of our site which includes applications for entertainments. The main home page has the user details and links to all features provided by the OS. The user has to register once before using the OS. The registration is validated through email and phone number. The user credentials are checked thoroughly before allowing access to the account. In case of suspicious login /one time passwords are also used. When the login credentials are filled incorrectly consecutively for three times the user account is temporarily blocked. The user can retrieve the account by confirming the identity. The OS also provide with social network integration for those who like to share and express their views through social media like Facebook and Twitter.

3.3 Program and Implementation

3.3.1 PHP

PHP was developed by RasmusLerdorf, a member of the Apache Group, in 1994. Its initial purpose was to provide a tool to help Lerdorf track visitors to his personal Web site. In 1995 he developed a package called Personal Home Page Tools, which became the first publicly distributed version of PHP. Originally, PHP was an acronym for Personal Home Page. Later, its user community began using the recursive name PHP: Hypertext Preprocessor, which subsequently forced the original name into obscurity.PHP is a server-side, XHTML-embedded scripting language. As such, it is an alternative to CGI, Microsoft's Active Server Pages (ASP and ASP.NET), Sun's Java Server Pages (JSP), and Allaire's ColdFusion.If a PHP script is stored in different file, it can be brought into a document with the "include" construct, which takes the filename as its parameter. The PHP interpreter changes from interpret to copy mode when an "include" is encountered. All the variables names in PHP begin with dollar sign ($). The part of the name after the dollar sign is like the names of variables in many common programming language: a letter or an underscore followed by any number of digits, letters or underscores. PHP variable names are case sensitive.

3.3.2 HTML 5

HTML is Hypertext Markup Language, which the most familiar language for website designing and applications. The new version of HTML has come into existence, HTML5 is the most recently used language for web designing. Along with PHP, HTML5 has maintained its equal place in web designing. HTML5 along with CSS applications can be done to give a overall change to the website, which decides how it should appear.

4. Conclusion

We have seen all the works related to Web Operating System. Our proposed system, is designed in such a way to interact directly with the user. We have modified a lot from the existing Web Operating Systems. We have included a lot of applications and designed the web page which is similar to social media sites with some additional features. Data is stored in the database, along with the user specific id so that no one other than the user himself can access the account. Thus, a safe and protected system with data security have been designed. We have aimed in the successful completion.

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