

DEVELOPMENT OF AN INDEPENDENT LIBRARY USING HTML5 TO IMPROVE STUDENTS' DIGITAL LITERACY AT VOCATIONAL SCHOOL

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ABSTRACT

The use of information technology in the world of education can produce high quality human resources by improving the quality of education. The aim of this research is to determine the development of an independent library using Html5 to increase the digital literacy of students at Vocational School This research uses literature study, which means collecting and analyzing literature. The results of the research are that technology will continue to advance and develop rapidly. Increasingly advanced technology is a necessity. The emergence of HTML5 is an effort to make technology continue to develop. The emergence of new HTML5 features used in web technology deserves to be considered a technological innovation. HTML5 responds to the development of HTML version 4. HTML5 will continue to be improved and developed by developers and web technology experts so that it can be used in all browsers.

Keywords: HTML5, Library, Digitalization

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INTRODUCTION

Education is a process of acquisition knowledge , skills , and habits from an inherited group of people from generation to generation through instruction , training , and research . Education is done in a way systematic and conscious so that produce intelligent , moral man nobility , personality , spiritual power , and skill . In some year Lastly , technology information has develop very quickly , produce change . The way people search and get information has develop from only read letter news , video and electronics become source information others , one of them is the Internet.

Development technology communication will develop more faster and more fast along walking time . Development fast technology currently pushing the internet and web as standard communication latest . Expected Web 2.0 concepts and HTML5 standards will become standard global communications . One of feature new HTML5 is Websocket , which can possible communication real- time data flow through TCP sockets , and Web Real-Time Communication (WebRTC) API, which can accepts audio and video input from webcam and microphone user and then send the data to other users peer -to-peer. This can done by the application browser on the device anything , even on mobile devices , as long as application browser the use HTML5 features (Jauharati, Hardiansyah, & Halang, 2022) .

At this time , the library has become an integral part of institutional activities and programs or institution certain . Especially at college high , the library cannot separated from the learning and teaching process students and lecturers . Library is place activity a librarian , called as warehouse science , center world information , or means We look for information as window of world. Therefore , it is important for a librarian For understand role they in manage library and knowing How collection library must managed so that users and visitors can use the information contained in it (Wulandari, Haristianti, & Syahida, 2021) .

Utilization technology information in the world of education can produce source Power man quality tall with increase quality education . The aim of this research is to know Development Library Independent Using Html5 For Increase Digital Literacy of Students at Vocational School.

LITERATURE REVIEW

Library is place activity a librarian , called as warehouse science , center world information , or means We look for information as window to the world (Azwar, 2013) . Therefore , it is important for a librarian For understand role they in manage library and knowing How collection library must managed so that users and visitors can use the information contained in it (Sari & Mali, 2021) .

HTML5 is Language internet programming used For arrange and display contents of the website, according to the wikipedia site . The main purpose from HTML5 development , designed by the Word Wide Web Consortium (W3C), is For interpret A Language mark single can written with Good in HTML or XHTML. HTML5 development is results from development of HTML4.01 and XHTML 1.1, which has been ongoing separate and used by many device soft web maker . The main purpose from HTML5 development is For increase HTML technology so you can support multilateral technology (Septian & Tricahya, 2023) .

HTML5 censorship is version latest from HTML 4.01, which was released in 1999. All major browsers like Chrome, Safari, Firefox, Opera, and Internet Explorer now supports HTML5. Although Still in development process , HTML5 and CSS3 now can Work The same . HTML5 has experience development constant since the launch . This is caused by the W3C continuing add and develop features available in HTML5. In 2014 , the W3C plans For launch version it's stable .

A number of elements and features new added to HTML5 which describes standard Contemporary website use . A number of elements and attributes the is replacement semantics on common blocks used , like elements (<div>) and inline (), for example () as block website navigation) and "footer", which is usually linked with part bottom of the website or last line html code . As For example , audio and video multimedia elements provide utility new For between face that has standardized . Apart from that, there is a number of unused elements , such as element

presentation like the and <center> tags, actually can made with Cascading Style Sheets (CSS).

METHOD

This research uses the study of literature, which means gathering and analyzing literature. This study uses a literature review, meaning searching, exploring, and reading literature such as journals and books, as well as other sources relevant to the research topic. (Simarmata & Situmorang, 2023). To form a research concept, the data collected is examined, organized, and adapted to the research topic.

In scientific research, the study of literature is an important part of the process of research methods. Cooper studied literature for several purposes, including linking research with previous literature and informing readers about other findings relevant to current research. (Faris, Sitompul, & Nainggolan, 2023).

RESULTS AND DISCUSSION

In 1980, HTML became widely known because it was developed by IBM and incorporated document formatting commands. This language is called a markup language, which means a language based on symbols or code. Hyper Text Markup Language (HTML) is a markup language used to create web pages that display various information in an Internet web browser. This markup language is also used to format simple hypertext written into ASCII format files so that it can produce an integrated display. originating from the common publishing and printing language, SGML. At this time, the World Wide Web Consortium (W3C) defined and supervised the use of HTML as the Internet standard commonly used to display web pages. In 1989, TIM's Caillau and Berners-lee Robert worked together to create HTML. CERN is a high energy physics research institute located in Geneva.

Actually, using Semantic Web or HTML5 is very easy if you know HTML5 standards. You can find them at www.w3schools.com and www.w3.org, as well as

many others on the internet. If you are still confused about using HTML5 elements, you can find the solution by reading the HTML5 flowchart here. Professional webmasters always use validators, whether they are browser plugins or validator web applications available online. I recommend two HTML5 validators, html5.validator.nu and validator.w3.org, to use as your web testers. When the opportunity arises, I can explain how to incorporate HTML5 or semantic web into site design. This is the end of my explanation about the meaning of the Semantic Web or HTML5. With HTML5, the main goal is to reduce the use of third party plugins in HTML so that web performance can be accelerated. Plugins such as Adobe Flash, Microsoft Silverlight, Java, and others are among them.

New functions such as 1. Element are also included in HTML5. Article, aside, audio, canvas, command, datalist, details, embed, figcaption, figure, footer, header, hgroup, keygen, mark, meter, nav, output, progress, rp, rt, ruby, section, source, summary, time, and video. 2. Enter the input type on the form: date and time, email, URL, and search 3. Attributes ping (for a and area), charset (for meta), and async (for script).

HTML 5 has several advantages, such as better support for offline storage and a canvas element for drawing. More specialized content elements, such as articles, footers, headers, nav, sections, and form controls such as calendar, date, time, email, url, and search, can be written in HTML (with the text/HTML media type) and XML syntax. , and can be integrated ('inline') with simpler doctypes.

It is easier for search engines to index content on the site; HTML5 is device independent; Improved error handling; By increasing ease of access, HTML 5 reduces the need for external plugins such as Flash and provides more markup than scripting. New tags such as header, footer, nav, section, and sidedetc make it easier for browsers to access content. Before this, we only defined them with tags and used the id and class attributes.

Libraries must welcome an all-digital future. The application of technology is the result of proper activities. Technology is not something to be afraid of; rather, it was created to be harnessed and exploited. The future is no longer hindered by technology.

Producing accurate, up-to-date and selected products (information) will become easier with technological advances. Of course, taking into account the benefit factor. Information technology in libraries will improve information services. It is clear that what is meant is an information service that no longer has time or space limitations. The library is always available to help and satisfy its customers wherever they are.

CONCLUSION

Technology will continue to advance and develop rapidly. Increasingly advanced technology is a necessity. The emergence of HTML5 is an effort to make technology continue to develop. The emergence of new HTML5 features used in web technology deserves to be considered a technological innovation. HTML5 responds to the development of HTML version 4. HTML5 will continue to be improved and developed by developers and web technology experts so that it can be used in all browsers.

There are several steps that must be taken to develop information technology in educational institutions, including: (1) designing and creating a database; (2) designing and creating portal, web and interactive multimedia-based learning applications, consisting of tutorial applications and learning tools; (3) optimizing the use of educational television as enrichment material to improve the quality of education; and (4) implementing the system effectively and efficiently to improve the quality of education.

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