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WEBSITE DESIGN USING *RESPONSIVE WEB DESIGN*

(Case Study: SMK YP Gajah Mada Palembang)

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Abstract

SMK YP GAMA is one of the best schools in the city of Palembang. Current SMK YP GAMA not have a website for information dissemination and is still done manually, thus having difficulty in students or prospective students in getting Opera- about SMK YP GAMA. The authors are interested in creating a web site where the site can be used well, then this is what led to the birth of a concept "Design Website Using Responsive Web Design" and to be able to make the website responsive created using CSS3 and HTML5. Responsive Web Design is a technique used to create a web layout adapts to the display device or devices that use web user, both size and orientation in an upright or portrait display and display horizontally or landscape.

Keywords: Website, Responsive Web Design, Opera- provider

1. INTRODUCTIONS

1.1. Background

Internet and smartphones is a unity that can't be separated in providing information to it's users and is one of the media information that is effective and efficient in the delivery of information that can be accessed any person anytime and anywhere.

SMK YP Gama is one of the schools in the city of Palembang, which is located at street Banten 2 and including private vocational favorite in Plaju area of Palembang. To publish SMK YP GAMA to the general public and students to vocational YP GAMA known by many, the SMK YP GAMA use the brochure as a medium of publication. But for the time being of any particular community of the students prefer to seek information using internet facilities, for the SMK YP

GAMA Palembang want to use the internet facility in the publishing of school information. SMK YP GAMA intend to have a website in order to facilitate students and prospective students to obtain information about the school or the announcement to be published in schools using responsive web design.

1.2. Research Problems

Based on the background described above which says that vocational SMK YP GAMA want to have a website with technology that can be optimally on any device, the formulation of the problem is "How to design web design SMK Gajah Mada using web technologies responsive?" which is expected to provide comfort and can be optimally adapted to any device that is used to access web pages.

1.3. Objectives and Benefits Research

The purpose of this research is to design a website CMS YP GAMA with web technologies that are responsive to adjust zoom the display device or devices used web visitors both size and orientation, so that the display located on the device or mobile device while providing the comfort of the user accessing the website. And the benefits of this research are that visitors easily read, open, use the navigation and features - features of existing websites using various media screen.

1.4. System Development Method

To create an application system takes several steps in order to obtain an application that is really useful as needed.

According to Pressman (2010) stages in the development of the system are as follows:

1. Planning System (System Planning)

Namely the early stages of system development that defines the estimated resource needs such as physical devices, human, methods (engineering and operations) and the budget of a general nature.

2. Analysis System

That phase of the study on the existing system with the aim of designing a new

system or updated.

2. Design System

That is the stage after the analysis system that determines the process and data required by the new system.

3. Implementation System

That is the stage where the design of the system is formed into a code (program) that is ready to dioperasian.

4. Maintenance System

That step is performed after the implementation phase, which includes the use of or use of, the audit system, maintenance, repair, and improvement of the system

3. RESEARCH METHODOLOGY

3.1. Website Design

Design is the depiction, planning and making sketches or arrangement of several separate elements into one unit to the needs and serves to design a system can be designed in the form of a flow chart of the system (system flowchart) which is a form of graphic tool that can be used to indicate the order - the order of the process of the system (syifaun Nafsiah, 2003: 2) cantumkan dalam daftar pustaka (referneces)

3.2. CSS3

CSS3 (cascading style sheets) Jayan (2010). CSS 3 is an abbreviation of casecading style sheets. uses is to set the display HTML documents, for example, as the spacing between lines, text, color and even the appearance of a border format image files.

CSS3 is a simplification to give a different portion of the previous css based on the characteristics of the device or devices that may use CSS3 is used to build a responsive or adaptive design of a website, which does not depend on the style or style rules in a browser but is based portion rules viewport size or screen work a device or devices.

3.3. HTML5

HTML5 is the new standard of HTML. previous versions of HTML HTML 4.01 appeared in 1999. The internet is a very significant change since then until now. HTML5 is designed to meet almost any need for user without additional plugins. Needs include animations, launch applications, play music and movies.

HTML5 cross-platform also means that it can run in various platforms and devices such as tablets, smartphones, notebooks and laptops. HTML5 is still being developed. but all popular browsers already support the new HTML5 elements.

3.4. Responsive Web Design

By Ethan Marcotte (2010), in an article on the website "alistapart.com" in the article he proposes how a web design can adjust itself in terms of both size and components of the website on mobile devices and desktop without having Constructing flexible different designs to content the content is the same, from which it gives birth to the concept of responsive web design is more flexible and can adapt to almost any different screens.

Responsive web design is a web design or site created to provide an optimal web browsing experience, easy to read and navigate with a minimum of resizing, panning and scrolling in a variety of desktop and mobile devices.

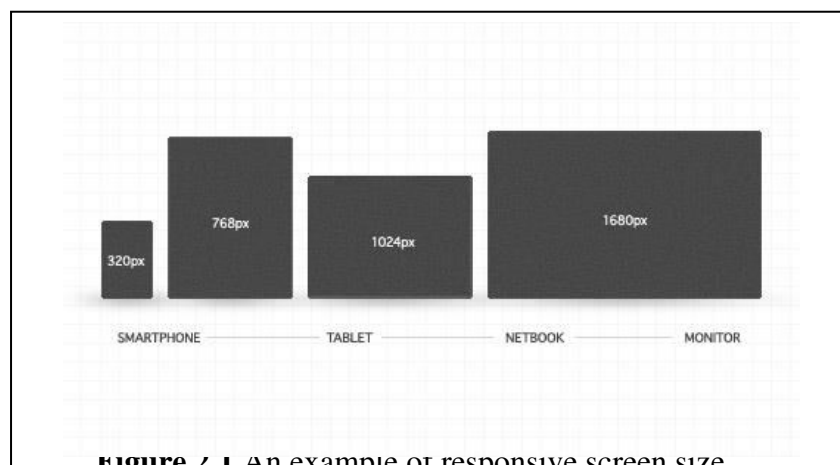


Figure 2.1 An example of responsive screen size

4. RESULTS AND DISCUSSION

4.1. Research Result

The results of this research is a responsive website at SMK YP GAMMA Palembang created using Macromedia Dreamweaver containing one database and five and fourteen table design.

4.2. Discussion

4.2.1. The main page of the website desktops

The main page is the home page of the web smk yp gamma. on this page are the menus that can be selected on the web.

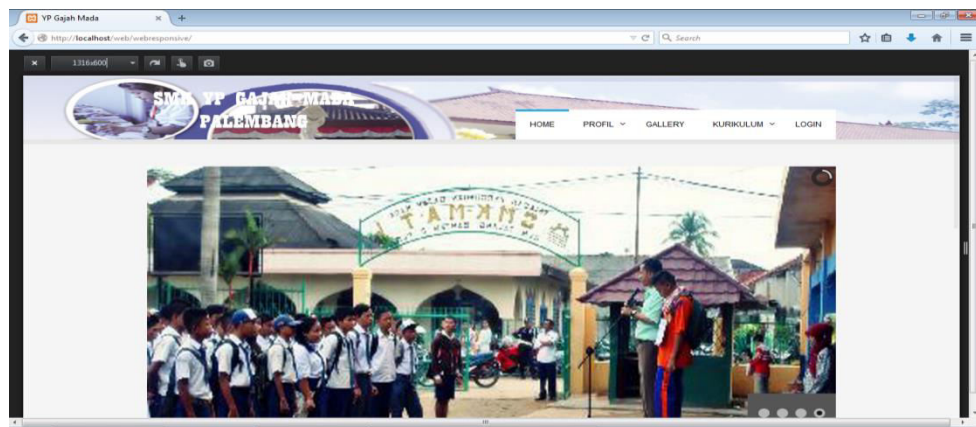


Figure 3.1 Main Page Website Desktop

4.2.2. The main page of the website tablets

On the main page if the user access through the visitors will get a tablet in accordance with the on-screen display tablet.

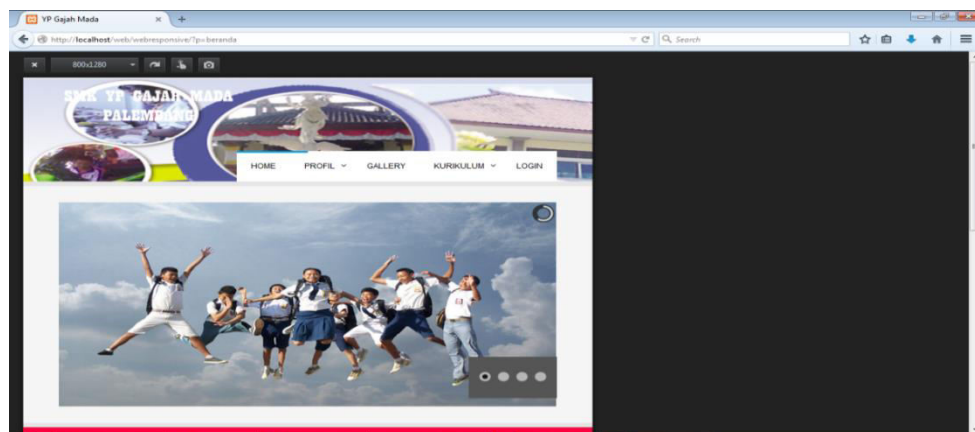
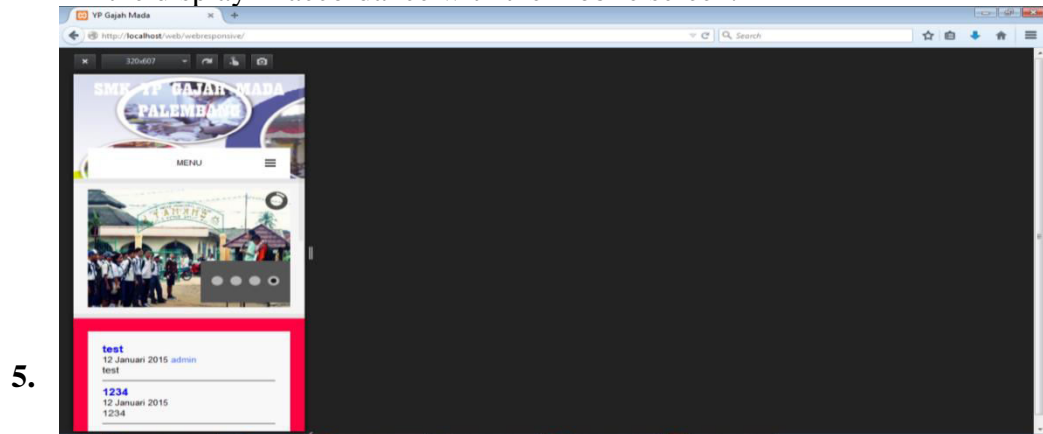


Figure 3.2 Main Page Website Tablets (800px, 1280px)

4.2.3. The main page of the mobile website

On the main page if a mobile user accesses through the visitors will get the display in accordance with the mobile screen.



yp gamma Palembang with responsive web design. then the conclusion can be drawn as follows:

1. This research resulted in the website SMK Gajah Mada yp Palembang with responsive web design using Macromedia Dreamweaver CS6.
2. with any other technology will be more responsive to give comfort to the users of the website because the look of the website created already adjusting to the device used.

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