The Benefits of Using Bar Charts in Company Websites

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Abstract. This article discusses the use of bar charts on company sites. A bar chart or bar graph is a chart or graph that presents categorical data with a rectangular bars with heights or lengths proportional to the values they represent. The purpose of this research is to discover the benefits of using the bar chart so it will becomes a consideration for institutions and companies that need informative data. With a qualitative approach, the data were analyzed descriptively. The results showed that the use of bar charts speeds up the user's reading of the data presented. In addition, bar charts are an aesthetic element that facilitates and motivates users who want to read data or information compared to text data or tables.

I. Introduction
User requirement include tasks that users need from the system to support and their expectations about performance another attributes quality [1]. The activity of monitoring project implementation generally includes the work of tracking progress, providing a number of information comparisons between the actual project implementation and the data that against the initial prediction data according to the baseline, analyzing the impact of project implementation, and making adjustments or corrections to any irregularities in project implantation. The monitoring information for company project should be available online, and real-time to be easily accessed by all parties concerned with the project. Shown the flow of the purpose of the process of calculating the result values or project performance information from a project monitoring activity. The amount of online project monitoring information, fast, accurate, can help improve the communication performance of stakeholders. Furthermore, the result of tracking and information on project monitoring performance can be submitted in the official, textual or graphical report from through official reports, e-mails, official meetings, exchange of data/files, or in the form of web [2]. Phenomena that occur in the surrounding space are more and more frequently present by means of graphics and images, which have gradually replaced the textual description [3]. As an alternative to the machine-compatible web API'S, a GUI based dashboard web a was created to facilitate human interaction with the intergrade dataset. The dashboard graphical interface operated by creating and manipulating charts to observe the relationships between datasets. Chart creation and manipulation options are performing via an intuitive drag and drop tile-based system. Graphs are generated through interaction with a creation wizard, allowing the end user to specify data sources, data variables, charts type, and a variety of other customization features. Options are available charts type are context-sensitive, and will change based on properties of the selected data set (i.e. qualitative datasets
will have a different selection of available charts types than discrete quantitative data sets). Available chart types include commonly used graphing utilities [4]. Bruce Iammeader has said that good and successful graphic design always carries more than imagery even if many people consider it to be a visual appeal [5]. Geo-analytical tools (proprietary Geo-BI software Yellowfin in SID’s case) are used to create interactive reports such as maps and charts, and interactive dashboard that assembles related reports. These reports are built on top of the optimized star schema-based data warehouse. End users access this interactive contact via an online portal. The user interface is visually rich and comprises of easy to use the control like filters that provide keys to intricate analysis while effectively concealing the complexity of calculation and database queries from the user. Visualization is a primary focus from the user interface as high intuitive visual play a pivotal role in successful policy support tools [6]. Version control and easy development. Prototype support the feature supports the feature's introduction in the previous section.

The social visualization and requirements dashboard was implemented using fusion charts [7]. Available charts type include commonly used graphing utilities: pie chart, doughnut chart, 2 graphs of the rate of automatic fixes, manual fixes, and data point drops for cache data set. Husein et al. Journal of big data (2015) page 7 of 18 Bar Graph, Histogram, Geo Chloropleth Chart, Bubble Chart, Scatterplot, Box Polt. In addition, several “widgets”, such as a table viewer, are provided in order widgets can be freely moved around the dashboard in accordance with the end user needs [8]. The main performance indicator has an important role in the progress of a company because the company id finally required to have a clear vision and mission and practical steps to realize [9]. Benefits of IT, there is no organization capable of combining the power of technology in the modern world. IT systems today can help a business to be more responsive, efficient and flexible in the form of rapid change and sustainability. Appropriate IT utilization will make a company speed up the process and focus on the core skills and capabilities that differentiate it from its competitors in the market. Failure to embrace the opportunities offered by IT can lead to business failure. The thrust of modern IT to take advantage of its best is strategic expertise that has become an important requirement. if an organization still wants to outperform its competitors. IT fulfills many functions in an organization including automated processes and system management, but for managers, the key role is to empower technology. Managers must choose and use IT systems to communicate more efficiently to simplify business process.

The aim of this study to discovery the profits of using bar chart to concern for institutions and companies that need informative data, and used qualitative method and descriptive analysis for some literature about bar chart.

2. Method

This study used a qualitative method, with descriptive analysis. This research seeks to provide a clear picture, according to the facts in the field. Data was collected to determine the extent of the use of bar charts, in order to increase awareness about the importance of using bar charts on the website system in the company, as well as to facilitate activities within the company.

3. Results and Discussion

Every institution/company engaged in the commercial sector seeks to package its company data according to the needs of the user. Users in this case act as target audiences or target markets of goods or services sold. Included in this case is the socialization of the project being carried out. Project socialization related to project management itself stages include project initiation, project planning, and design, project execution, project monitoring and control, project completion and close out. In Gantt, a management consultant in America becomes a pioneer who visualizes project management so that it is easily understood by every element in the system in an institution/company. Some of the charts used to visualize ongoing project management include; A Gantt chart is a type of bar chart that illustrates a
project schedule; Pert Chart is used after a project has been planned and broken into smaller pieces, called tasks; Pareto Chart a Work Breakdown Structure (WBS) that is a project management diagram that illustrates an entire project broken down into components and then into smaller subcomponents; Timeline is visuals that show important events labeled in chronological order on a linear time scale; Fishbone diagrams are also called Ishikawa or Cause and Effect diagrams [10]. All of these steps can be understood by every element involved in one management that will implement it. This information can be found personally and limited through an account on a site, but can also be accessed openly, because information allows it to be publicly owned data. Even in certain conditions, there is a necessity for an institution/company to publish the progress of a project if the project is related to the wider community. In this case, all the data must be understood by a wide audience (See Figure 1).

In the process of visualizing, it requires the skills of a visual designer who is able to package data accurately, communicatively and informally. The existence of people who master the graphics UI and its UX is very much needed, so that content related to project management can be delivered without any communication barriers, from project holders to stakeholders or users. Even so, this designer profession is not often replaced by a programmer who concurrently serves as a UI expert based on his experience. In the process, a designer/programmer must have the ability to be able to read the initial data in the form of text or tables and then transform it in the form of infographics (See Figure 2).
The website makers certainly need data that still uses the required data and tables and displays the performance data every month or display data that is needed by the company. chart. Websites that use bar charts or other graphs for data input parts have 2 ways, namely the first, using the manual method of directly compiling data from the website and the second is composing graphics from the database. Some sites use automatic machines to bring up the bar chart, by presenting a selection menu feature related to data display, namely text or chart. But some others directly display data in the bar chart and pie chart view. With the use of color compositions in appearance, the data is sorted in such a way. This color sorting composition makes it easy for users to read data so that it is more informative and communicative. Display charts on the site also add to the beauty of the site, bar charts in various forms become an aesthetic element (Figure 3) supporting the general appearance of the site. So that the site gets lively, filled with dazzling chart displays.
Figure 3. Chart as an aesthetic element

This Figure was adopted https://www.officetimeline.com/project-management, was taken on April 18, 2019

4. Conclusion
The average company in business is still lacking of an awareness to compose the website design. Technological development makes it easy for people, especially in business and is more comfortable for a company if they want to change the existing website design to be renewed or developed again to make it easier to read a data or text and simplify the work process in everyday life. with a website using bar graphs is certainly more effective and can be easily and simply recognized and in this bar chart can also be determined as a target that must be considered in order to smooth the productivity of a project in the company as a whole.

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