Implementation Distributed Computing Through Web Story Maker (WebStar) Website

Fauzia Elsa Farah, Yang Hao2, and Lau Siew Hung3

1Universiti Utara Malaysia, Malaysia, elsafarahf@gmail.com
2Universiti Utara Malaysia, Malaysia, muyi1003home@gmail.com
3Universiti Utara Malaysia, Malaysia, laulausiewhung9396ej@gmail.com

ABSTRACT: This paper focuses on WebStar website that comes out with an idea about creating short story by different authors together in web-based through Cloud technology, resource sharing, database, local host and other distributed computing functions. This is a platform for people where they can write and read short stories through online to increase their passion and creative ideas. An adding function "Donation" also include in this website to show how online payment works in distributed computing. Analysing this short story allows comparison between certain parts of the features, their benefit on the people, and how it implement the distributed computing. We explain the concept, interface, benefit, and future recommendation to improve the website. To give an example of explanation, we capture a simplified of the features interface of the website and how the technical part works. By analysing the implementation of distributed computing, we evaluate the approach and show a substantial conclusion of using the WebStar website.

Keywords: Distributed Computing, Cloud Technology, Resource Sharing, Online Payment, Interface.

INTRODUCTION

In the 21st century, reading has become a very diverse phenomenon. In fact, reading now includes many different practices that go beyond traditional processes that only involve writers, solitary readers, publishers, and distributors. At present, rapid technological developments that combine with Distributed system make geographic boundaries fade. For instance, people can collaborate to do work among others only with the technology platform. All information can be exchanged very quickly, no matter how far the information can be received easily with technology. Not only does the geographical boundary fade, but also the time limit fades, all current information can be sent and obtained in just seconds.

Distributed computing is defined as a distributed system is a collection of independent computers that appears to its users as a single coherent system. Distributed computing is all around our daily life from the moment people hold their smartphone to connect Wi-Fi, search on Google, using Bluetooth and even though when they put down your smartphone, distributed computing is still running without stop all over the world.

With the improvement of networking technology, people can get information faster and easier just by one click on smartphone and laptop. Therefore, the digital media generation has expanded the possibilities available to writers and readers, often allowing them to build direct contact and to overthrow publishers and analyse how reading practices are changing. One of platform to shape this activity is WebStar website. Web Short Story (WebStar) this is a web-based platform that has implementation of distributed computing, where this platform is used as a platform or a place used to gather for readers and authors. In other hand, distributed uses virtualization to improve efficiency which it is an internet-based technology provided on demand services.

Readers can read free short stories that are published on WebStar website and writers are given freedom to write or express their creative ideas in the form of short story writing. To illustrate more reliable scenarios about what kind of readers are currently available, how much are they reading and what channels are they using. In this paper, we want to show a new way to analyse online social reading one of the most interesting phenomena that shows the potential benefits of this paper program.

LITERATURE REVIEW

According Myrberg (2015) people like to read through online because of several factors. Online Reading also has many benefits. One of them is by using WebStar website, it is a very important resource for all those who are interested in short stories. This is a platform available through the web, where people can edit stories by getting requests from authors, adding comments in the public domain, writing their own responses to what they read and engaging in discussions with other users who comment before them, providing additional funding for orphans, and provide feedback on how the website looks.
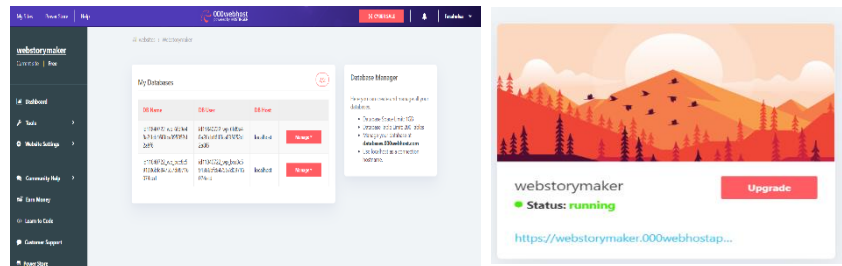

Figure 1: Website Hosting Dashboard

In figure 1 shows the web hosting dashboard of admin. To make this website to be live website we need to connect it with the web hosting. There are some steps for build this WebStar Website. First, we need to download the file of WordPress and place all the directories to the htdocs file. Second, configure with the apache and make the new local host file in database phpMyAdmin. Last, pull the directory from localhost then connect it with website hosting. The status of the website will running once it has connected. So in this study, we will analyse on how the distributed computing will be impalement in some of the website features and benefits of using this website.

The Features of WebStar Website as an Online Media for Reading

Clearly define background, vision, and, mission. This website provides a clear explanation of the background of WebStar website. On the other hand, readers and author can also see the vision and mission of this website. This is one of the factors why people should use this website as their online reading media. Furthermore, the factor that can influence people to use this website is because this website can be used by public. People do not need to register or log in, it can be accessed anytime and anywhere and this is also is free websites based. Hence, WebStar website can make time savings and cost savings for people.

Short Stories Page. The main feature of this website is short stories page, where reader can see the list of all short stories. For author who want to post their short stories on this website, they must contact and send the short story in Google document format to the admin via email. Once the admin has been approved, the story will be posted on the website so that it can be seen by the public. On this page we provide a cover, synopsis, and content from a short story that is connected to Google documents. For the readers who want to edit the short story, they can get a request from the admin to edit by giving their email and interesting ideas to develop the short story in the comment column. Google Document is sharing resource through cloud computing in distributed system. Once user edit the content of short story, the changes will show automatically and real timely on the Web Story Maker's website. To make this automatically appear on the website, we only need to copy the HTML code and place it on the page provided as shown in Figure 2.
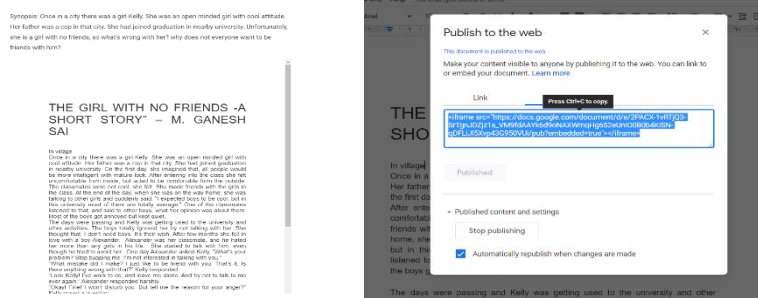

Figure 2: Short Story Page

Hence, we can define if Google document is a part of an office of Google drive that is cloud based drive to permits collaborative editing of documents. Google Docs is a useful collaborative tool (Mansor, 2011). Therefore, this offers a more productive alternative collaboration between people to edit short stories.

Fundraising for Orphanage. This is not only a website to enhance a passion of reading and writing skill for people, but this website is also used to help and caring for others, especially for orphans who live in orphanages and their lack of quality education. People can adjust the amount based on what they want or they can choose based on the three (3) kind of fundraising in the website. People can donate funds through two (2) methods, first through the PayPal site.
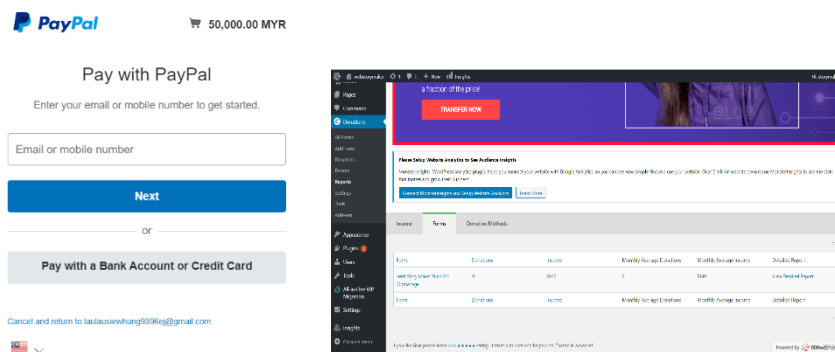

Figure 3: Donation Page

In figure 3 shows that once people click the "Donate now" button, it will prompt people to PayPal site which they need to log in first before transfer the money and at the right up of the login page, it has stated the amount that they want to transfer. This refer to the concept of peer-to-peer version of electronic cash would allow online payments to be sent directly from one party to another without going through a financial institution (Nakamoto, 2018). The E-cash schemes of PayPal here can involve separate players and entities, which can interact or operate independently, which impacts as a system distribution. This includes payers, payees, networks banks, and authentication infrastructure. Therefore, the basic online architecture is inherently a centralized architecture, where most of it is communication through the bank. Second, they may donate funds with an offline donation, which means they can transfer to the admin account and send proof of transfer to the email listed. The data of funds will keep in admin dashboard as a detailed report of their transfer information. When the funds collected are enough, half of the funds will be used to produce several short stories that have been completed to be edited into a printed book that will be distributed to orphans. The rest that is still collected after production will be given to the orphanage for the orphans' daily needs.

Feedback. The reader may add their feedback to the website. There are many types of feedback in this website, such as comments, questions, bug reports, and suggest improvements. Feedback that is filled by the reader will be displayed on the google form of admin dashboard.
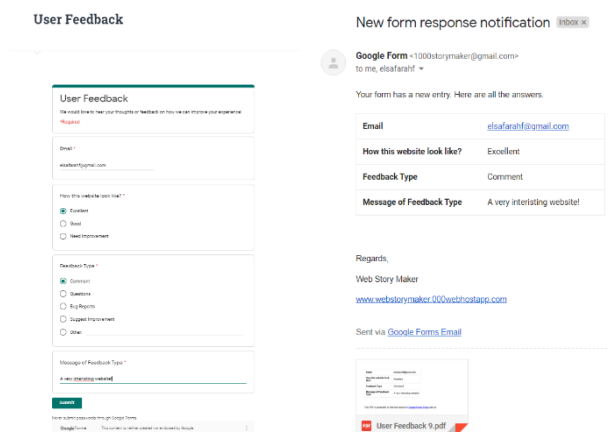

Figure 4: User Feedback Page

As shown in the figure 4, the admin can also receive email notification from the Google form if reader has been filled the form in along with the pdf file so that the feedback data can be collected. The email notification will be received by setting the Add-ons to 'Email Notification For Google Form' then state the email that will receive notification and create a notification message.

Benefit of WebStar Website as an Online Media for Reading

Enhance Reading and Writing Passion. The awareness of culture in reading and writing is very important because they are widely used in every sector. For instance, the sector in creating a written artwork like short story, which it has a lot of benefits for the community. Through this website people can increase their passion in reading and writing. When they are interested in reading short stories then they will also come out with their creative ideas to continue the story. Hence, it is useful to improve the ability of people to think creatively and innovatively.

Establish Social Relations Between Writers and Readers. A good social relationship can be formed by exchanging creative ideas in making short stories that are interesting and can be enjoyed by the public. Apart from gaining new knowledge, this website also has the advantage of making new friends. Friends with similar hobbies can help to increase creativity. People can collaborate to exchange ideas and experiences in writing.

Easy to Access. This website can be accessed anywhere and anytime because it is through online and free electronic reading. People can access this website using their PC or handphone. This website also does not provide an age limitation. So, every age can use in the hopes of increasing interest and reading culture.

Foster Awareness and Sensitivity to Social. One of the missions of this website is to donate funds to orphans in orphanages given from readers of this website. This can help them to have a better life, both in education and everyday life. People indirectly help others with the passion they have. Hence, they are not only improving the quality of themselves, but increase the quality of others for well-being.

FUTURE RECOMMENDATION

There are several changes that will be made in the future. Most importantly we will do some research for website development to make it more accessible to users and implement deeper implementations of distributed computing. Hence, there are some recommendations in the future for this website such as

1. WebStar website will collaborate with NGOs or UNESCO to get certification as a voluntary award. For companies that donate gold, medals, and bronze types of funds and cooperate with each other by marketing the organization's products for ree by placing advertisements on the website with specified time. Online advertising often involves publishers, who integrate advertisements into their online content, and advertisers, who provide advertisements to display on publisher content. It is using an google ads that installs the concept of peer to peer where this website requests data from Google to make ads from the organization, once the data has been received, Google will automatically place ads on the website.

2. Article scoring system and authors will receive ratings and reviews via email. The website will open a scoring function, all users can rate the article below the article, the author of the article will receive the daily rating and review of the article through the mailbox. And the website will sort all articles regularly.

3. Automatically categorize stories on the website. As each author uploads his article, ask the author to categorize it and describe its category. The website will categorize all articles and create a drop down list for them in the story button.

4. Google doc changes notified via email. Because every user on our site has the right to change published articles, we should have a feature for modify notifications. This feature will be able to send a modification notification and detailed report to the author's mailbox after all users have modified the article in google doc.

CONCLUSION

Our project is a website about short stories. Nowadays, with the changing of technology, people reading habits change from paper to online reading. The growing of networking makes reading easier and faster online. Moreover, people can create their own stories costless, anywhere and anytime. Therefore, we provide a platform called WebStra Website for people who are interest in online reading. On our website, we are not only focus on how people read a short story. But we also set up a donation page for some orphanages. We set a certain donation amount and users can donate according to the amount, or they can choose the amount based what they want. There are two ways to donate: PayPal and Online Bank pay.

There will be two kinds of users on our website, one is the author who is ready to publish the article, and the other is the reader who wants to read the article. Each author can post their own articles and observe comments from other users, as well as donate to orphanages. Every other user can read and comment on all articles on the site. When you have some good suggestions about the article, you can contact the author of the article and explain your suggestions, you can also discuss the article in depth. When the author passes your suggestion, you can click on the "Edit" button to enter google docs for your editing.

It has a "Feedback" page. When users of all websites have some suggestions or ideas for this website, they can provide feedback by filling out questions on the "Feedback" page. After the user submits the feedback page, as the admin of the website, we will receive the email about the feedback. After we successfully developed the prototype of the website, we also conducted various tests for various functions and interfaces on the Internet to ensure that the website can be used smoothly.

REFERENCES

Kumar, S., Srivastava, S., & Kumar, V. (2013). *Cloud Computing With Real Case Studies And A New Approach Of Solving Security Issues And Putting Data In Cloud*. Retrieved from https://www.researchgate.net/publication/235950351_CLOUD_COMPUTING_WITH_REAL_LIFE_CASE_STUDIES_AND_A_NEW_APPROACH_OF_SOLVING_SECURITY_ISSUES_AND_PUTTING_DATA_IN_CLOUD

Mansor, A. Z. (2012). *Google Docs As A Collaborating Tool For Academicians* . Retrieved from https://www.sciencedirect.com/science/article/pii/S1877042812037433

Myrberg, C. (2015). *Screen vs. Paper: What Is The Difference For Reading And Learning?* Retrieved from https://insights.uksg.org/articles/10.1629/uksg.236/

Nakamoto, S. (2018). *Bitcoin: A Peer-to-Peer Electronic Cash System*. Retrieved from https://bitcoin.org/bitcoin.pdf

Rebora, S., & Pianzola, F. (2018). *A New Research Programme for Reading Research: Analysing Comments in the Margins on Wattpad.* Retrieved from https://www.researchgate.net/publication/327954876_A_New_Research_Programme_for_Reading_Research_Analysing_Comments_in_the_Margins_on_Wattpad