THE APPLICATION FOR THE PERMANENT VOTERS LIST OF THE GENERAL ELECTION COMMISSION IN LABUHANBATU UTARA BASED ON WEB

Indra Ramadona Harahap[1*], Muhammad Iqbal[2]

[1]Manajemen Informatika, Sekolah Tinggi Manajemen Informatika dan Komputer Royal, Indonesia
[2]Sistem Informasi, Sekolah Tinggi Manajemen Informatika dan Komputer Royal, Indonesia

Corresponding author:
ir.harahapma@gmail.com

Keywords:
Web-based applications,
Data selector remains,
KPU Labura,
Pandemi Covid-19

ABSTRACT

The General Electoral Commission (KPU) of Labuhanbatu Utara District does not currently have a separate application in the data collection of permanent voters. Therefore, a Web-based fixed selector list application will be created. The process of using this application can be done in every district, village, and village with the data processing centralized in KPU Labuhanbatu Utara. The purpose of this application is so that people with suffrage can easily see their data online in accordance with the data that is in the KPU Labuhanbatu Utara. As for the conclusion of the trial phase of the system that has been done obtained the result that the application of the list of fixed voter register KPU north-based Labuhanbatu is effective and efficient in the collection of permanent voters, giving the public facilities to see the status of the list of voters, location of the elect This application can also be applied as a substitute for voters to minimize the interaction of the organizers with the community as a social form of distancing in the Covid-19 pandemic.

INTRODUCTION

The General Elections Commission (KPU) is a state institution that conducts general elections. This is how it is contained in the law number 22 of 2007 about the electoral organizers carried out by the national, permanent, and independent KPU [1]. The inseparable part of this election is the election of the regional chief (elections) which took place in a province in the election of governor, as well as at the district level in the election of regent. Only in the electoral elections are KPU province and KPU Regency/city[2].

In 2020 this, the elections as the biggest Democratic party to choose Regent and Deputy Regent in Labuhanbatu Utara through Electoral Commission Regulation (PKPU) No. 15 of 2019 [3] originally planned on September 23, 2020, postponed and amended until December 9, 2020, based on the PKPU number 5 the year 2020 in article

8B mentions reasons for non-natural disasters Corona Virus Disease 2019 (Covid-19 process in the implementation of elections must be ratified with a number of long steps in the number of voters until set as permanent voters that will Participating regent and deputy Regent elections [4]. Then, from the fixed list selector count This will be the organizer of the organizer to create the card picker in the form of a notification letter for the prospective selector known as the model of the C6 form [5].

But in reality, often we encounter in the process of elections some citizens should have the right to choose unlisted in the list of permanent voters, or registered as permanent voters but do not get the form C6, [6] or get the form C6 but missing or damaged and so forth. Other issues are sometimes also less familiar to the prospective regent and deputy Regent to be elected [7].

Therefore, the author has the idea to create a Web-based application that can help facilitate the organizers of the elections or the KPU officers in the record of the number of permanent voters in Labuhanbatu North District, and the officers and prospective voters can also print the notice of voters as form C6, know the place and location of the TPS, and know the information on candidates or candidates regent and deputy Regent to be chosen so that in the process of the elections will be more effective and efficient in the middle of the Covid-19 pandemic.

METHOD

This research uses the Waterfall method. The Waterfall method is a common method used in system development [8]. This method is part of the SDLC (System Development Life-Cycle) method. Here are the stages of Waterfall [9] :
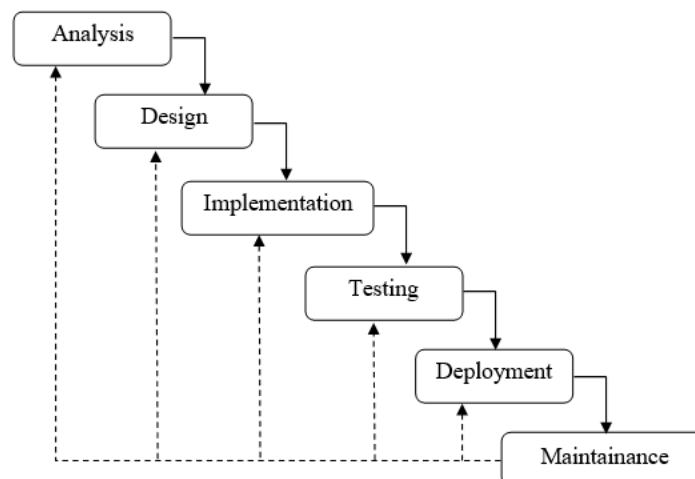

Image 1. Research Methodology

Analysis
At this stage, researchers observe the needs of the system. The collection of data in this stage is done by interview and literature study [10].

Design

Based on the needs of the system and then continued with the design of systems focusing on data structures, software architecture, user interface design, and procedural detail. This stage generates a document that programmers will use to create the system.

Implementation

This stage of the researcher performs coding as a language that the computer can recognize. This stage is the real stage of working on the system. The design will be realized in the form of a system ready for testing.

Deployment

At this stage, the program can already be applied and used by the user.

Maintenance

Software applications that have been used will undergo treatment or even change based on changes as the stage of system development. Changes can be affected by internal or external factors of the organization.

RESULT AND DISCUSSION

Designing Use Case diagrams

This design is necessary to describe the boundaries of the parties involved in the use of the system.
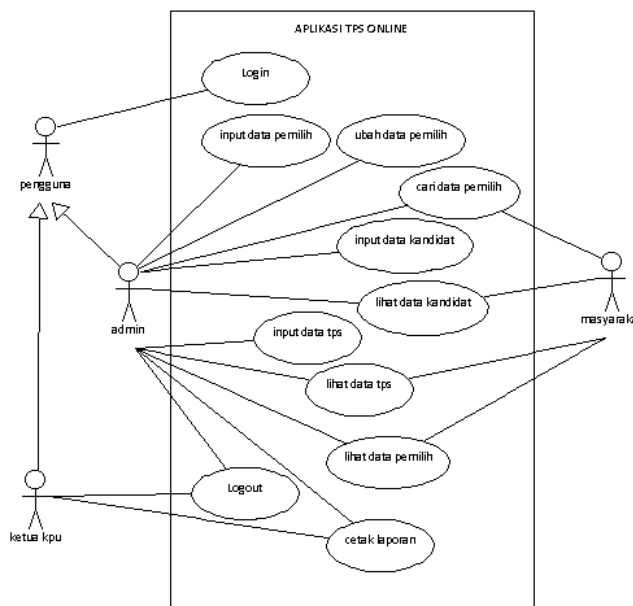

Image 2. Use Case Diagram

The administrator and chairman of KPU is the primary actor who is a derivative of the user. As for the community of voters recorded as a secondary actor. The above use-case illustrates the activity of the user logging in so that it is recorded at a certain level.

When a user logs in and is logged as a manager account that has the role to input selector data, change the selector data, search for selector data, input candidate data, print the report, and logout. In public actors or as voters do not need to log in. Society simply by inserting NIK, if the data found then can do a print selector card and see the candidate data candidate.

Design of the application display
        The application display selector list remains as follows:
1. Front Page
        On the homepage, search, and information fields. People can enter NIK to find data. If the data is found then the community is listed as voters.
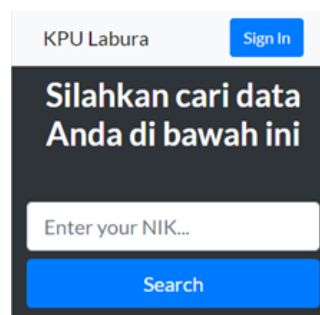

Image 3. Selector Data Search Form

When a data selector is found it will display the selector data along with the voting location in the form of a map and also displays the candidate to be selected. Voters can also independently print a participant's card or download the document to be taken to the voting place. The following forms are selector cards that are ready to be printed or downloaded.
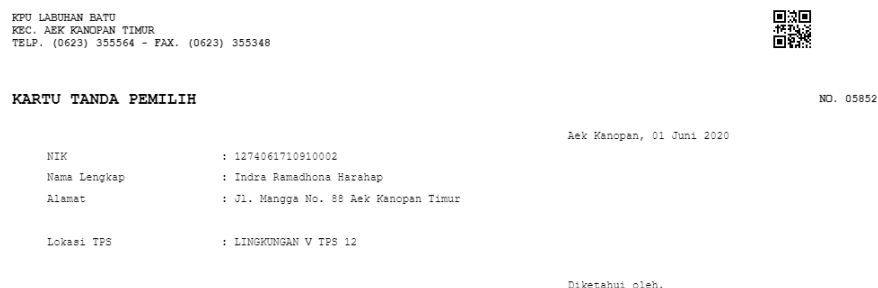

Image 4. Voter marking card

2. Dashboard Administrator Page
    On this page, the administrator has several menus that serve to enter the TPS data, fixed selector data, arrival selector, and candidate information. Each present selector will submit a card selector to be validated by the administrator through the system. The

Administrator can see the number of voters who have done the Pencoblosan or not. Selector logging is easier to do with Perewhen. The following is the Administrator Dashboard page.
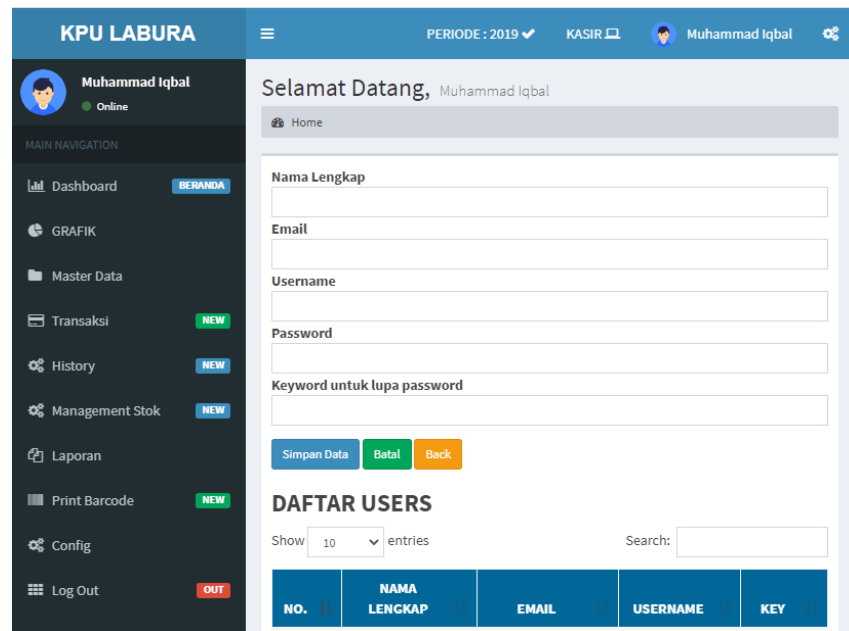

Image 5. Dashboard

CONCLUSION

The application of permanent voters list KPU of Labuhanbatu North Regency, this web-based will certainly help the KPU officers in the data collection such as polling the TPS by the KPU officers, logging the list of temporary voters and finally become recap of the permanent voter's list.

The application is also designed to be able to print voters' cards, thus the attendant does not have to come to the candidate's home selector because voters can print their own selector cards or by showing their fixed selector list via mobile phone while in the TPS. All of this is in line with the government's renown in the implementation of the elections simultaneously Wednesday 9 December 2020 in the middle of the pandemic Covid-19 with the use of disposable inks as a sign of already voted or by means of spraying ink, disposable colors, and others. But for this, there must be coordination with the KPU regency of North Labuhanbatu.

Access the application is quite easy to use because it is based on the identification of the identity number or voters' names. Information obtained not only limited information data selector but also the candidate information to be selected as the candidate of Regent and Vice Buapati Labuhanbatu Utara, of course, this can also be a socialization service that is expected to further increase the participation of the community to contribute to the choosing a leader who will lead North Labuhanbatu.

The advice of researchers in this case in the future of this fixed selector list application can be used for quick calculation process, also the addition of security facilities or Internet security on the design of this application in order to avoid hacking actions by irresponsible parties.

BIBLIOGRAPHY

[1]　D. Aulia, "MENYOAL REGULASI PILKADA : UPAYA PENGUATAN KPU SEBAGAI PENYELENGGARA," vol. 2, no. 1, pp. 56–68, 2016.

[2]　M. Bestari, "Jurnal Penelitian Politik Mitra Bestari Penanggung Jawab Pemimpin Redaksi Dewan Redaksi Redaksi Pelaksana Sekretaris Redaksi Produksi dan Sirkulasi," *J. Penelit. Polit.*, vol. 16, no. 2, pp. 111–124, 2019, doi: http://ejournal.politik.lipi.go.id/index.php/jpp/article/view/782.

[3]　S. Wibowo and H. Gunawan, "Aplikasi Daftar Pemilih Tetap KPU Provinsi Riau Berbasis Web," *It J. Res. Dev.*, vol. 1, no. 1, pp. 50–59, 2017, doi: 10.25299/itjrd.2016.vol1(1).674.

[4]　B. Suharso, "Pemilihan Umum Kepala Daerah Periode 2015 / 2020 (Studi Politik Hukum Calon Tunggal)," *Varia Justicia*, vol. 12, no. 1, pp. 204–221, 2016.

[5]　R. Solihah, "Peluang dan tantangan pemilu serentak 2019 dalam perspektif politik," *J. Ilm. Ilmu Pemerintah.*, vol. 3, no. 1, p. 73, 2018, doi: 10.14710/jiip.v3i1.3234.

[6]　N. Y. Simanjuntak, "Pemantauan dalam proses penyelenggaraan pemilu," *J. Bawaslu*, vol. 3, no. 3, pp. 305–458, 2017.

[7]　D. Amrizal, Y. Yusriati, and H. Lubis, "The Role of General Election Commission (KPU) in Increasing Voters' Participation in Langkat, Medan, Indonesia," *Budapest Int. Res. Critics Inst. Humanit. Soc. Sci.*, vol. 1, no. 2, pp. 13–24, 2018, doi: 10.33258/birci.v1i2.9.

[8]　R. A. Pascapraharastyan, A. Supriyanto, and P. Sudarmaningtyas, "Rancang Bangun Sistem Informasi Manajemen Arsip Rumah Sakit Bedah Surabaya Berbasis Web," *Sist. Inf.*, vol. 3, no. 1, pp. 72–77, 2014.

[9]　H. Nur, "Penggunaan Metode Waterfall Dalam Rancang Bangun Sistem Informasi Penjualan," *Gener. J.*, vol. 3, no. 1, p. 1, 2019, doi: 10.29407/gj.v3i1.12642.

[10]　J. Cordeaux, "'Wicks' of the mouth," *Notes Queries*, vol. s5-VII, no. 159, p. 37, 1877, doi: 10.1093/nq/s5-VII.159.37-a.