ONLINE PRESENCE SYSTEM DESIGN BASED ON DATA GRANTED VALIDITY

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Abstract:
The presence of employees in an agency is very important for recording attendance accurately and avoiding fraud in the manual attendance process. Therefore, designing an online presence system is the right solution to overcome this problem. A good online presence system must have high accuracy and be integrated with an efficient data management system. One way to improve the accuracy of the online attendance system is to use the data validation method provided. The manual attendance system used by the company suffers from inaccuracies and fraud. Therefore, this study aims to overcome this problem by designing and implementing an online presence system based on the validity of the data provided. Information system development methods are used to design online presence systems that use blockchain technology to ensure data validity and reduce the risk of fraud. In conclusion, an online attendance system based on the validity of the data provided can be an effective and efficient alternative solution for institutions that still use manual attendance systems.

Keywords: Website, Presence, Granted Validity, Qr Code

INTRODUCTION

The presence of employees in an agency is significant to record attendance accurately and avoiding fraud in the manual attendance process. Therefore, designing an online presence system is the right solution to overcome this problem. An excellent online presence system must have high accuracy and be integrated with an efficient data management system. One of the ways to increase the accuracy of the online presence system is to use the granted data validation method.

The granted data validation method is an authentication technology that ensures data validity through a strict verification process. In this method, verified data will be permitted to be accessed by the online attendance system so that student or employee attendance can be recorded accurately. The concept, design and implementation of an effective and efficient online presence system will be discussed in designing an online attendance system based on granted validation data. It will also explain the granted data validation method used in the online presence system.

The design of an online presence system based on granted validation data can improve accuracy and security in recording student or employee attendance so that the attendance process can run more effectively and efficiently.

METHODS

Presence. Presence is an activity that aims to determine the level of presence of a person in an institution, school or company. Whereas according to (Novita & Hardi, 2019), attendance or

attendance cards are documents that record the attendance hours of each employee in the company. The record of employee attendance hours can be in the form of an ordinary attendance list, or it can also be in the form of an attendance card filled with a time recording machine. (Grace Gunawan et al., 2021)

Granted Validity. Then, Arikunto explained that validity is a measure that shows the level of reliability or validity of a measuring instrument. Validity comes from the word validity, which means the extent to which a measuring instrument's accuracy in carrying out its measuring function. A test or measurement instrument is said to have high validity if the tool performs its measuring function or provides measurement results that follow the purpose of the measurement. This means that the measurement results from these measurements are exact facts or the actual state of what is being measured. Measuring a less valid instrument means it has low validity.

Analysis of the Old System and the New System. Research Methods, explaining clearly how the research was conducted. Research must include the methods, samples, research sites, and analytical tools used.

RESULT AND DISCUSSION

Login Menu page. Login Menu Page on the Presence System, Login Menu is only for those who have access. Only Admins and Employees with a registered e-mail and password can log in to this system.
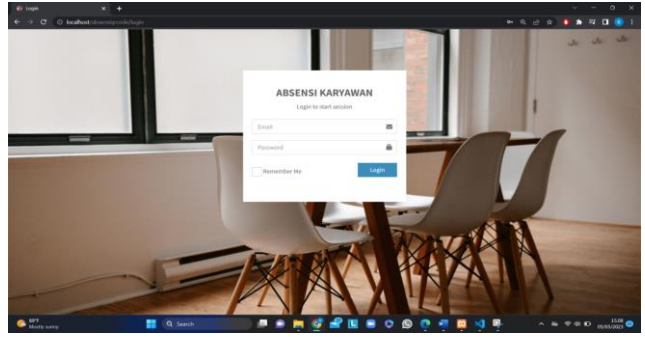

Figure 1. Login Menu

Employee Dashboard page. On the Employee Dashboard System, there are several menus: Master Data, Scan, and Attendance History.
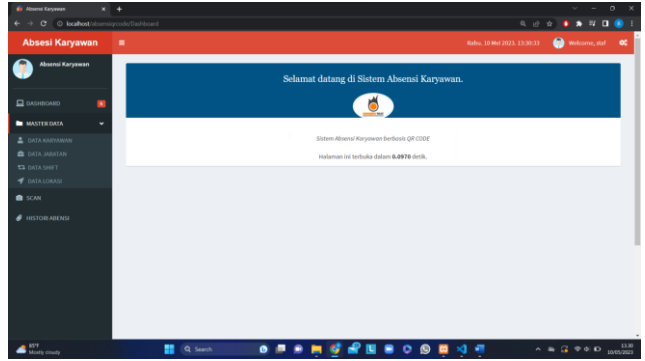

Figure 4. Employee Dashboard Page

Scan page. On the Scan page, employees make attendance by using the barcode that is obtained for each employee.
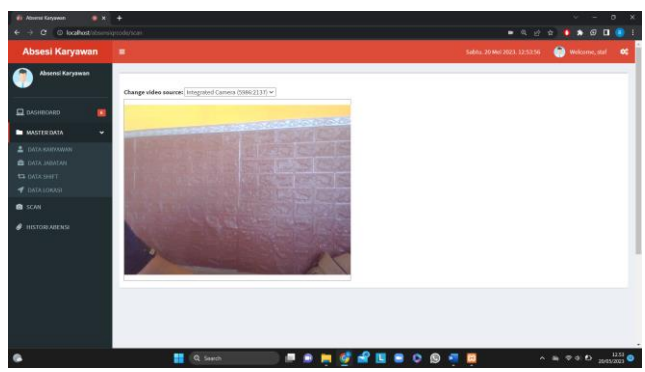
2

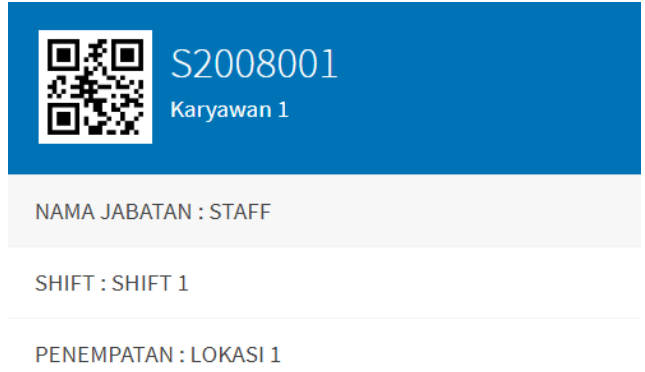**Figure 5.** Scan Page

Employee barcodes

Figure 6. Employee Barcodes

History page. On the employee history page, you can view attendance history and by location at the time of attendance.
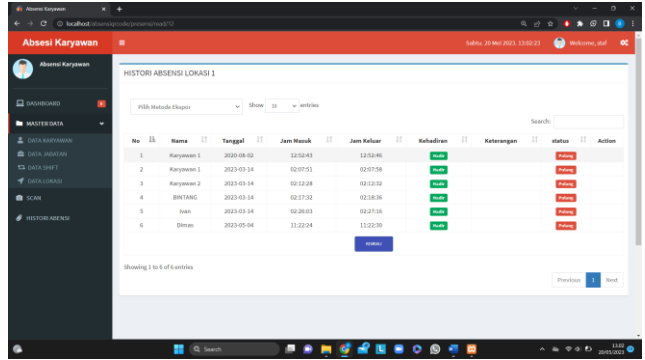

Figure 7. Employee History Page

Admin Dashboard page. The Employee Dashboard System has several menus: Master Data, Get QR Code, Attendance Data, and Settings.
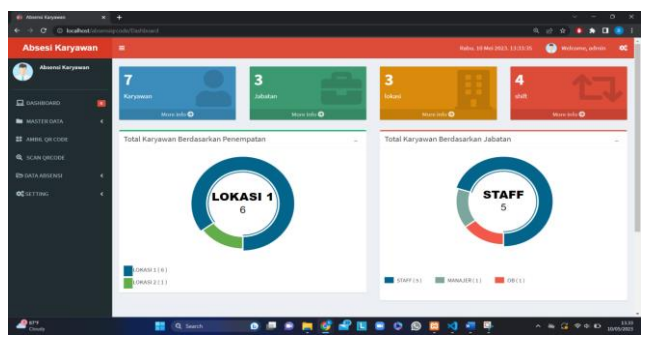
Figure 8. Amen Dashboard page

Admin Menu Employee Data Page. On the employee data page, the admin menu displays all employee data and can add employees, change employee data and delete employee data.
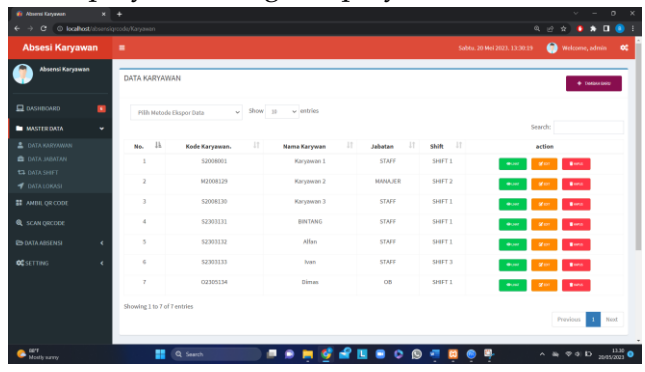

Figure 9. Admin Menu Employee Data Page

Admin Menu Position Data Page. On the job data page, the admin menu displays all job data and can add new positions, change position data and delete position data.
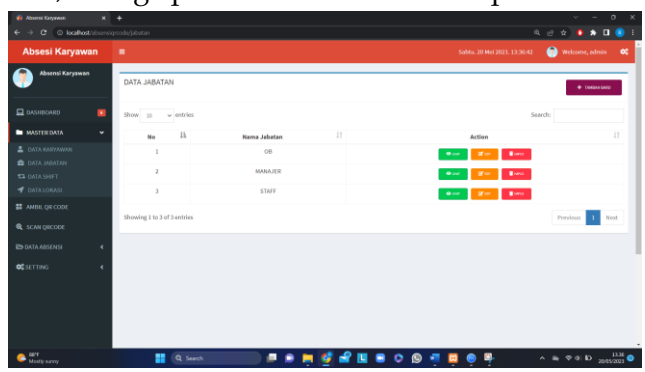

Figure 10. Admin Menu Position Data Page

Admin Menu Shift Data Page. On the data shift page, the admin menu displays all shift data and can add shifts, change shift data and delete shift data.
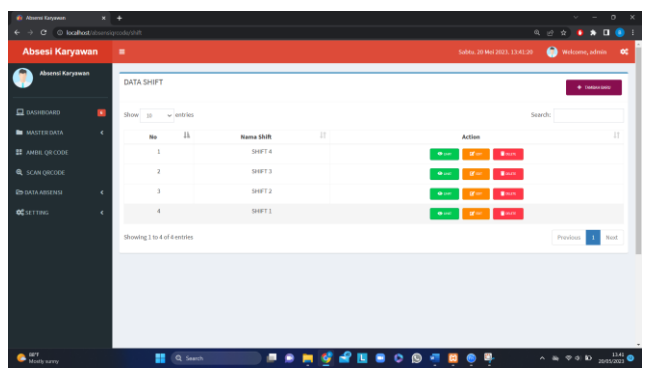
Figure 11. Admin Menu Shift Data Page

Admin Menu Location Data Page. On the location data page, the admin menu displays all location data and can add locations, change location data and delete location data.
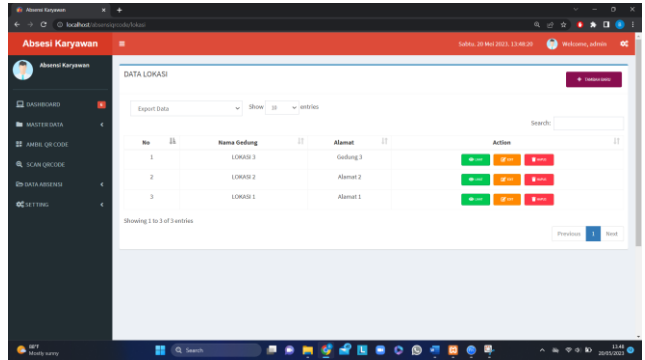

Figure 12. Admin Menu Location Data Page

Admin Menu Attendance Recap Page. The admin menu on the attendance recap page displays attendance recaps based on location and can display report results.
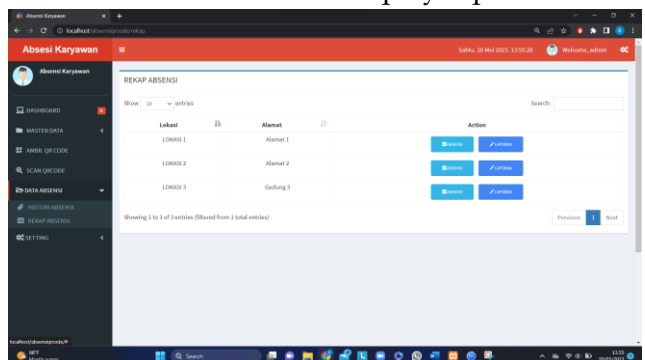

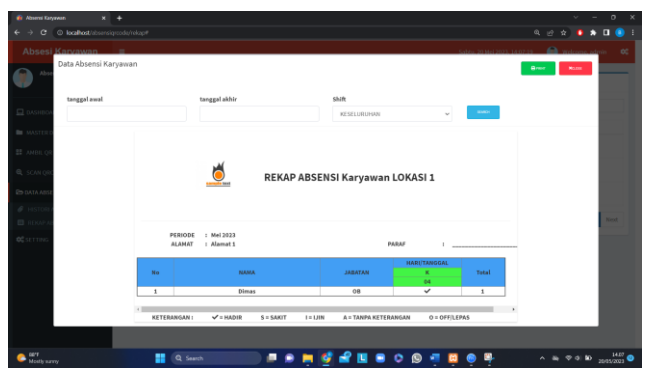**Figure 13.** Admin Menu Attendance Recap Page

Employee Absenteeism Result Page

Figure 14. Report Results Page
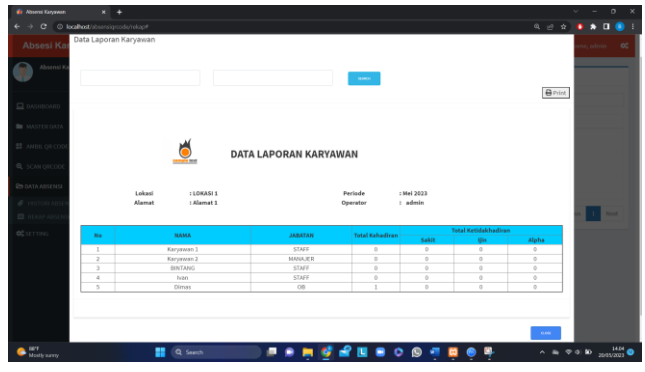
Report Results Page

Figure 15. Report Results Page

CONCLUSION

Based on the journal entitled "Granted Validation Data-Based Online Presence System Planning," it can be concluded that an online attendance system based on granted validation data has many advantages, one of which is that it can increase the efficiency of time and costs incurred in the attendance process. In addition, this system can also minimize attendance errors that often occur in manual attendance systems. Several steps need to be carried out in designing this online attendance system, such as system requirements analysis, system design using the granted validation data method, system implementation, and system testing. The testing process is carried out to ensure that the system that has been created can run correctly and according to user requirements. In using an online attendance system based on granted validation data, there are several factors that need to be considered, such as data security, infrastructure readiness and human resources. Data security must be secured so that the system's attendance data can be appropriately protected. Infrastructure readiness, such as internet speed and storage capacity, must also be considered so the system can run properly. The ability of human resources to use online presence systems also needs to be improved. This can be done by providing training and an introduction to the online attendance system.

In conclusion, an online presence system based on granted validation data can increase time efficiency and minimize attendance errors in a manual attendance system. With this online attendance system application, it is hoped to facilitate the management of employee absences for a company. However, there needs to be attention to data security factors, infrastructure readiness and human resources so that the system can run properly.

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