Website Based Online Attendance Application
For Employees And Teaching Staff at SMK Negeri 9 Medan

Hardiansyah Putra[1], Dian Yulis Wulandari [2], Anggi Ihwan Bagohwi Siregar [3]
Universitas Pembangunan Panca Budi

Abstract: Attendance is a routine carried out by an employee and teaching staff at SMK Negeri 9 Medan to prove whether or not they are present in an activity, either work or other things. Online attendance can make it easier for employees and teaching staff at SMK Negeri 9 Medan to prove their presence in an activity using a device computer or smartphone. Currently, the attendance method is still carried out manual recording on employee and teaching staff attendance sheets. Where every employee and teaching staff who attend must fill in and sign as proof of attendance. This website-based online attendance cannot be done by employees and teaching staff if they are not in the school environment. This research produces a website-based online attendance information system that can be used by employees and teaching staff to prove their attendance without having to write and sign as proof of attendance and officers can export attendance data as reporting to the leadership.

INTRODUCTION

Human Resources are very important for an organisation or company to achieve the company's progress goals. Secondary school Vocational School (SMK) Negeri 9 Medan is one of the favourite State Vocational Schools in North Sumatra Province. SMK N 9 Medan has 6 Departments, namely Social Care (PS), Network Computer Engineering (TKJ), Software Engineering (RPL), Multimedia (MM), Animation (AN) and Visual Communication Design (DKV).

Every employee and honorary teaching staff at SMK Negeri 9 Medan receives a salary given directly by the school from development contributions student. The amount of honorarium received is in accordance with the school's agreement with employees at the specified time. The award was also given at the time set by the school.

School policies in awarding honorariums are usually measured by several factors or assessments such as work schedules (attendance), working hours and productivity of a job. Work schedules determined through employee attendance are often a special concern

in giving honorarium because it is very closely related to the productivity of an employee and teaching staff during doing work in a company.

Research with this theme has been carried out, several studies that have been carried out are the Design of Teacher and Staff Attendance Information System at SMK Pancakarya Tangerang. This research resulted in the Design of Teacher and Staff Attendance Information System at SMK Pancakarya Tangerang. The design of the School Attendance Information System uses the Web-based Prototype method. This research resulted in a system design for Web-based attendance using a prototype approach.

RESEARCH METHODS

The research approach carried out by making research stages can be See in the image below :
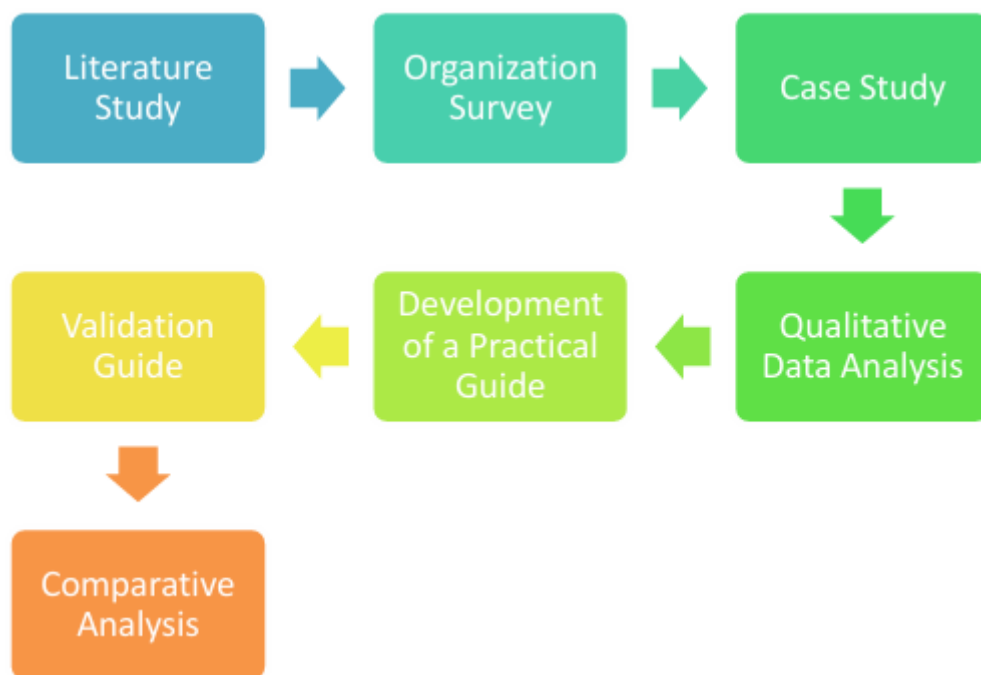

Figure 1. Research Phase

Using Knowledge to Build an Effective Knowledge Management System: A Practical Guide to Organizational Success" may include the following steps:

1. Literature Studies

   The first step is to undertake a comprehensive literature study of basic concepts in knowledge management, related theories, and best practices that have been applied

by other organizations. This will help in understanding the current framework and trends of knowledge management.

2. Organizational Survey

Conducting surveys in several organizations that implement knowledge management systems. Surveys may include questions about the implementation of the system, benefits that have been obtained, challenges faced, and best practices that they have identified.

3. Case Study

Select a few organizations that have successfully implemented an effective knowledge management system as a case study. This will involve interviews with organizational leaders, knowledge managers, and system users. Case studies will help in identifying key factors that contribute to their success.

4. Qualitative Data Analysis

Data obtained from interviews and surveys can be qualitatively analyzed. It involves grouping findings based on themes, identifying common patterns, and drawing conclusions about key factors that influence the successful implementation of knowledge management systems.

5. Practical Guide Development

Based on findings from literature studies, surveys, and case studies, you can develop practical guides that will help other organizations in building and implementing effective knowledge management systems. These guides should contain practical steps, tips, and advice that can be applied by the organization.

6. Guidance Validation

The practical guidelines developed need to be validated by involving a number of different organizations. They can try to implement them in their own context and provide feedback on their usefulness.

7. Comparative analysis

Conduct a comparative analysis of the various organizations that have implemented this guide to measure its impact on the successful implementation of knowledge management systems.

RESULTS AND DISCUSSION

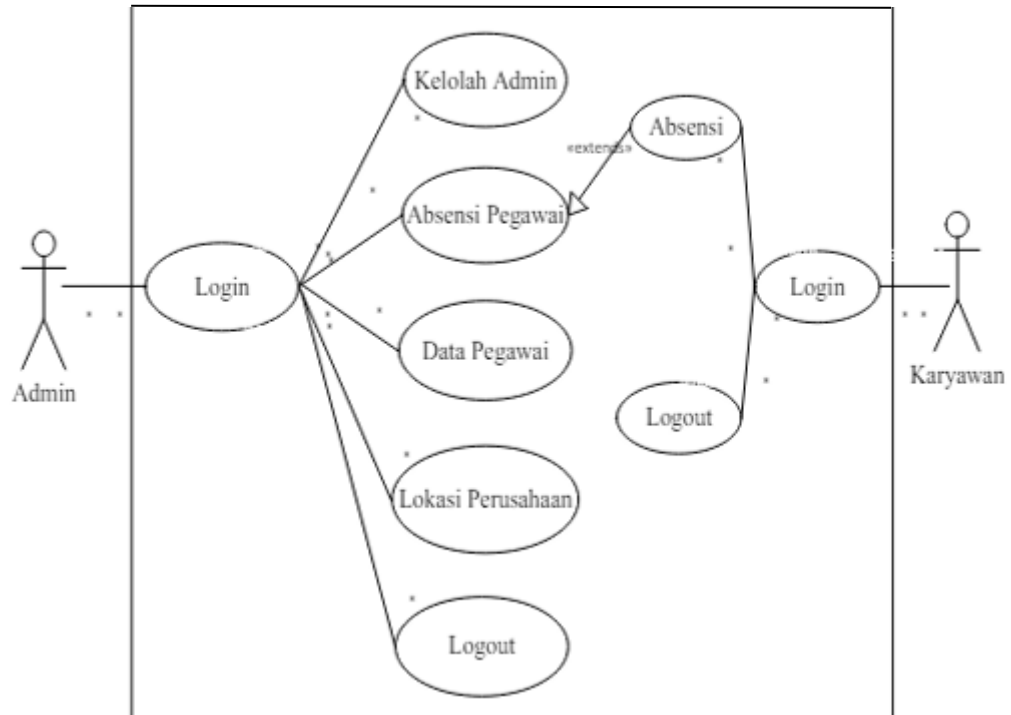**Results**

1. Use Case Diagram Design

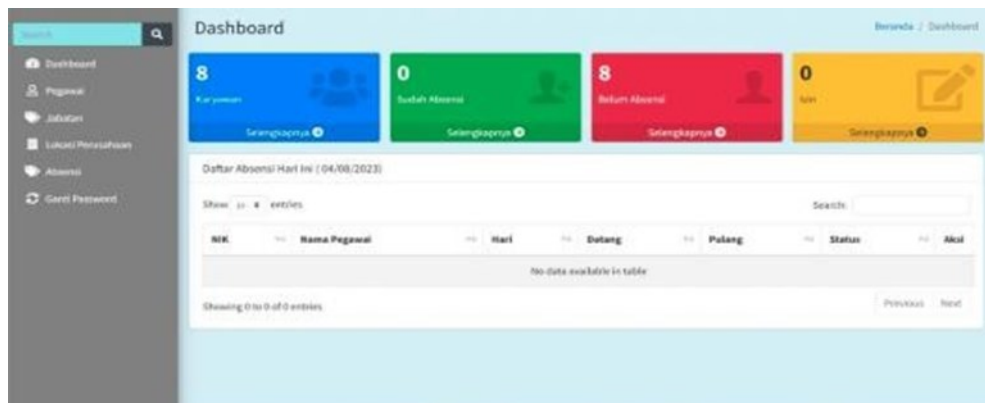Figure 2. Use Case Diagram

2. Implementation

Figure 3. Dashboard

Discussion

Based on the results of the above research, it can provide knowledge and skills for students who are undergoing a learning process to be able to design, building, developing and managing complex websites. In this case Students will gain more in-depth knowledge from the course web programming on the learning taken The creation of this system is

designed and built for students with an undergraduate education level.

Table 1. Black Box Testing

Tested Module	Describes Expected	Output Test	Result Obtained	Conclusion
Login Page	Enter username and password correctly according to the section, then button	Login access successful, login to the page according to the respective roles	The system displays the dashboard page according to the respective roles	Suitable
Login Page	Entering the wrong username and password	Login failed, notifications of usernames and passwords are not matched	The system displays notifications of the wrong user name and password, and the display remains on the login page	Suitable
Add employee name	Enter employee and faculty identities	If the addtion of the identity of the staff and teaching staff is successful, then data can be stored	Displays the result of adding employee and teaching staff data	Suitable
Add employee and teaching staff position	Enter employee and teaching staff position	If the addtion of employee and teaching staff position is successful, the data is successfully stored	Displays the result of adding data on employee and teaching staff positions	Suitable

CONCLUSION

Conclusions that can be obtained from the design of the Online Attendance System in Improving the Discipline of Employees and Website-Based Teaching Staff at SMK Negeri 9 Medan is :

1. The Online Attendance System in Improving Employee and Website-Based Discipline of Teaching Staff at SMK Negeri 9 Medan can make it easier for employees and teaching staff to carry out attendance.

2. The Online Attendance System in Improving Employee and Website-Based Teaching Staff Discipline at SMK Negeri 9 Medan can be implemented well according to their needs and the test results are running with good.

REFERENCE

Andi Christian, S. H. (2018). Rancang Bangun Website Sekolah Dengan Menggunakan Framework Bootstrap (Studi Kasus SMP Negeri 6 Prabumulih). Jurnal SISFOKOM, 22- 27.

Andrianto, P. &. (2017). Sistem Informasi Pelayanan Kesehatan Berbasis Web di Puskesmas. Seminar Nasional Komputer dan Informatika, 47-52.

Apriliani, D. &. (2019). Implementasi metode promethee dalam sistem pendukung keputusan penilaian raport dosen. J. Inform. J. Pengemb. IT, 4(1).

Arpan, D. Y. (2023). Pembuatan Website Program Studi Akuntansi Universitas Pembangunan Panca Budi Medan Dengan Menggunakan Codeigniter 3. Jurnal Nasional Teknologi Komputer, 209-215.

Asmara, J. (2019). Rancang Bangun Sistem Informasi Desa Berbasis Website (Studi Kasus Desa Netpala). Jurnal Pendidikan Teknologi Informasi (JUKANTI), 1-7.

Erika, W. (2023). Rancang Bangun Web Profil Program Studi Perpajakan Berbasis Wordpress (Studi Kasus: Universitas Pembangunan Panca Budi Medan). Jurnal Nasional Teknologi Komputer, 202-208.

Hardinata, R. S. (2019). Audit Tata Kelola Teknologi Informasi menggunakan Cobit 5 (Studi Kasus: Universitas Pembangunan Panca Budi Medan). nal Teknik dan Informatika, 42-45.

Hendrawan, J. P. (2020). Rancang Bangun Sistem Informasi UKM Panca Budi Berbasis Website. Journal of Information Technology and Computer Science, 18-24.

Nataniel Dengen, H. R. (2009). Perancangan Sistem Informasi Terpadu Pemerintah Daerah Kabupaten Paser. Jurnal I nformatika Mulawarman, 47-54.

Rachman, R. (2019). Penerapan Metode Ahp Untuk Menentukan Kualitas Pakaian Jadi Di Industri Garment. Jurnal Informatika, 1-8.

Rosiska, E. (2018). Penerapan Metode Analitycal Hierarchy Process (AHP) dalam Menentukan Mitra Usaha Berprestasi. Jurnal RESTI (Rekayasa Sistem Dan Teknologi Informasi), 479- 485.

Setiyanto, R. N. (2019). Perancangan Sistem Informasi Persediaan Barang Studi Kasus di Vahncollections. Jurnal Sisfotek Global, 137-142.

Suheri, P. S. (2023). Penggunaan Framework Codeigniter Dalam Pembuatan Web Profil Programstudi Teknik Elektro Universitas Pembangunan Panca Budi Medan. Jurnal Nasional Teknologi Komputer, 227-234.

Sumartono, I. &. (2019). Analisis Perancangan Sistem Rencana Pembelajaran Terpadu dalam Mendukung Efektivitas dan Mutu Pengajaran Dosen (Studi Kasus: Fakultas Ilmu Komputer Universitas Pembangunan Panca Budi). Jurnal Teknik dan Informatika, 12-17.

Supiyandi, S., & Mailok, R. B. (2024). Application of Geographic Information Systems in Sustainable Development Initiatives. *Prosiding Universitas Dharmawangsa*, *4*(1), 410-415.

Susanto Anna Dara Andriana, R. (2016). Perbandingan model waterfall dan prototyping untuk pengembangan sistem informasi. Majalah Ilmiah UNIKOM, 41-46.

Triyono, T. S. (2018). Perancangan Sistem Informasi Absensi Guru Dan Staff Pada Smk Pancakarya Tangerang Berbasis Web. Journal Sensi, 153-167.

Wijoyo, H. (2020). Rancang Bangun Sistem Informasi Penggajian dan Absensi Karyawan Megara Hotel Pekanbaru Berbasis Web. Jurnal Ekonomi, Akuntansi & Manajemen, 56-76.

Yulianto, A. (2021). Perancangan Sistem Informasi Absensi Sekolah Menggunakan Metode Prototype berbasis Web. Riset dan E-Jurnal Manajemen Informatika Komputer, 257-262.

Fachri, B., Hendry, H., & Zen, M. (2023). Perancangan Sistem Informasi Posyandu Ibu Dan Anak Berbasis Web. Jurnal Teknologi Dan Sistem Informasi Bisnis, 5(1), 49 54.

Rizal, C., & Sanjaya, D. (2022). Perancangan Sistem Informasi Perekrutan Karyawan Berbasis Web (Studi Kasus PT. Transdata Satkomindo Medan). Jurnal Manajemen Sistem Informasi (JMASIF), 1(1), 1-11.