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Web Programming

Design of Online Office Employee Attendance System on Website Based on HTML and CSS

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A B S T R A C T

The continuous development of technology makes everything sophisticated and easy, such as attendance that can be accessed online. In this study, an online office employee attendance system was designed on an HTML and CSS-based website, where on this website there is a time and map that can show the whereabouts of employees and what time they are absent so that it is expected to prevent fraudulent attendance such as entrusting attendance. The purpose of this study is to help the office with attendance problems so that the office can easily control all employees in terms of attendance and all incoming data will be neatly arranged so that the data will be easy to summarize. This study uses a method of collecting data from observation as well as designing and building. So that with the observation method used, it can be used to find out and obtain data that will be used in the design and building stage of this website. This website itself is designed using the HTML programming language as the initial stage of the website page framework and uses the CSS programming language to make the layout of the website more attractive.

INTRODUCTION

The development of the attendance system in the office is certainly inseparable from the development of extraordinary technology in this modern era. The attendance system is carried out in the office, its function is to monitor the arrival and return of employees from the office. The attendance system used to only be recorded using paper media, where it took at least thirty seconds to record and other employees could have asked for attendance so that there was no honesty [1-4].

Therefore, with the above problems, the researcher will conduct an analysis and design of an online office employee attendance system on a website based on HTML (HyperText Markup Language) and CSS (Cascading Style Sheet) so that the problems can be resolved [5][6].

Designing an attendance system on a website certainly uses a programming language, starting from setting the appearance of the website page to the website design. In this study, using the HTML (HyperText Markup Language) and CSS (Cascading Style Sheet) programming languages [7][8]. In the online attendance system on this website, it is equipped with time and maps so that the presence of employees and their time can be monitored when taking attendance. With an online attendance system using this website, the office only needs to provide a server to manage and control incoming data and check-in and check-out times. And also must provide WIFI to connect mobile phones to the server, so the network can be set according to the range of WIFI which is only in the office area so that there is no need to worry if employees cheat on attendance, if they are not in the office. All employees can access this website, if they get access rights from the office. The online attendance system on the website will be more accurate, effective and efficient and also save time. So, the incoming data will be orderly [9-11].

METHOD

This study uses the method of data collection from observation as well as designing and building. The observation method itself is carried out to find out or obtain data that will be used in the design and building stage of this website. This website is designed using the HTML programming language as the initial stage of the website page framework and the CSS programming language is used to create the layout display on the website. This study was conducted with the aim of being able to help the office in terms of employee attendance and can reduce employee fraud in attendance problems.

RESULTS AND DISCUSSION

The online attendance system on this website is a system design to facilitate offices and HRD who work in the office, to make attendance reports for all employees in the office. And this system also saves more time, so it makes employees more productive in their work. So that it will affect the progress and success of the office. Because the progress and success of the office depends on its employees.

System Design

Use Case Diagram

Use Case Diagram is a technique used to describe the process of website development activities, in order to find out the functional needs of this online website system.

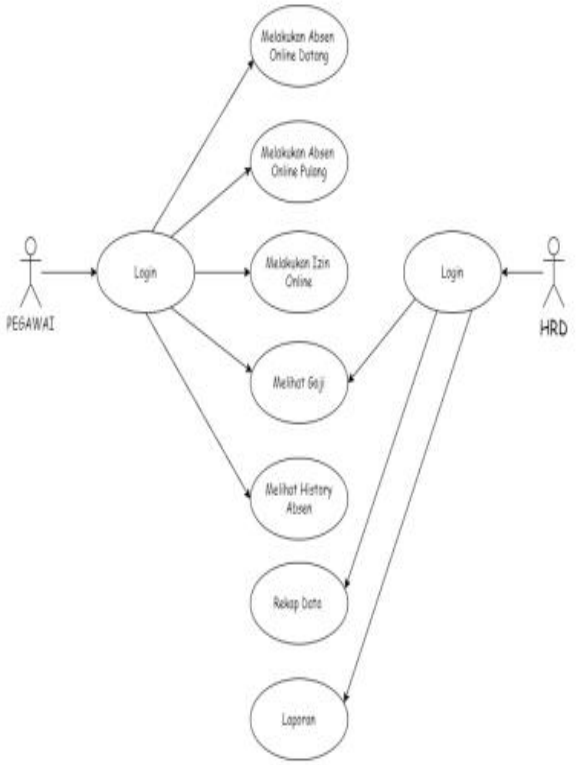

Figure 1. Use Case Diagram

In Figure 1. Use Case Diagram there are two actors, namely: Employees and HRD and there are also 9 Use Cases carried out on the two actors.

Program Design

Website Login Page Display Located on the "Home" Menu.

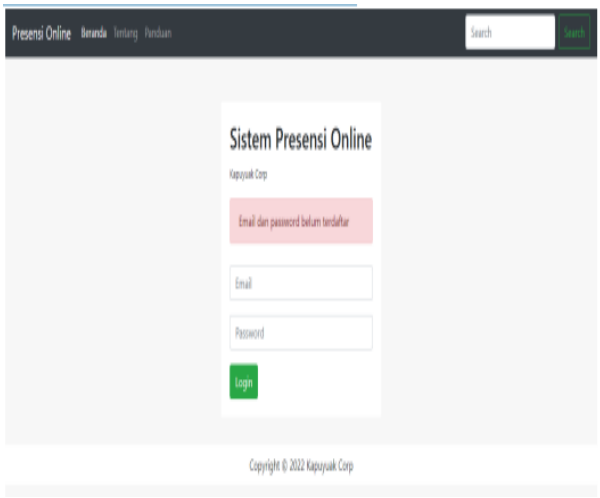

Figure 2. Website Login Page View

Figure 2 shows the website login page. This login display is where employees will register their email and password first, then they can log in.

Page Display After Logging In To The Website Which Is On The "Home" Menu.

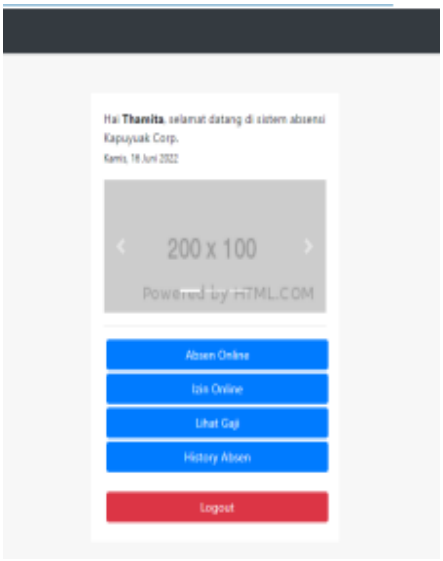

Figure 3. Page View After Website Login

In Figure 3. Shows the page display after logging in, on this page there are 3 places to put images and 5 clickable buttons, which are online attendance, online permission, see salary, absence history and logout. Here employees can do, see and know online attendance, online permission, see salary, absence history and logout.

The "Online Absentee" Page Display Which is Located on the "Home" Menu.

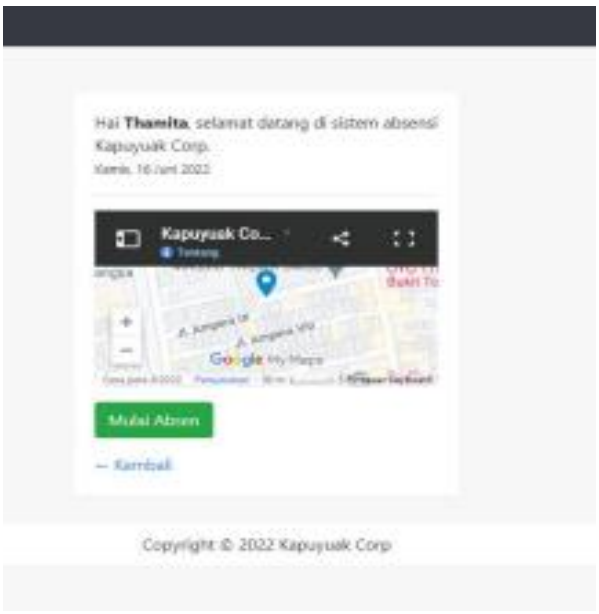

Figure 4. Online Attendance Page View

In Figure 4. Shows the online attendance page where the employee has clicked the "online attendance" button first, then enters the online attendance page as shown in the image above. On the online attendance page there is a map that states the employee's whereabouts automatically and then click start attendance. Then the employee has done the attendance.

"Online Permit" Page View (Not Present) On "Home" Menu.

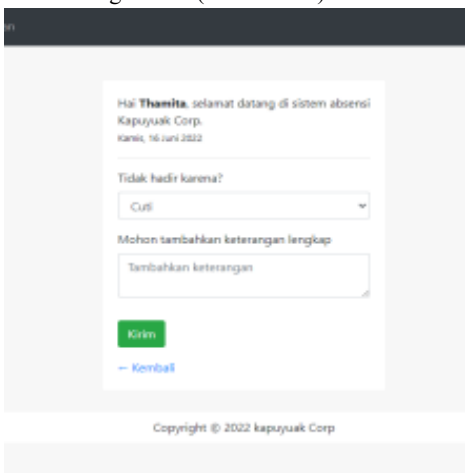

Figure 5. Online Permission Page View

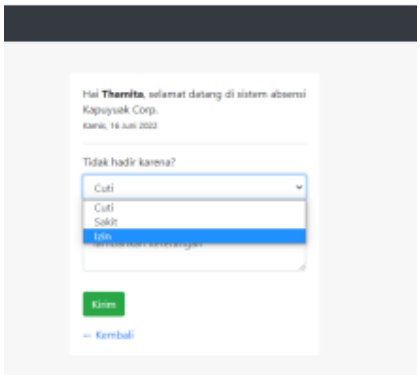

Figure 6. Online Permission Page View With Absence Reason Option

Figure 5 and Figure 6 show the online permission page where the employee has clicked the "online permission" button first, then entered the online permission page as shown in the image above. On the online permission page there are 3 options for why the employee cannot come to the office, namely leave, sick, and permission. Then the employee is also asked to fill in the reason.

"View Salary" Page Display on the "Home" Menu

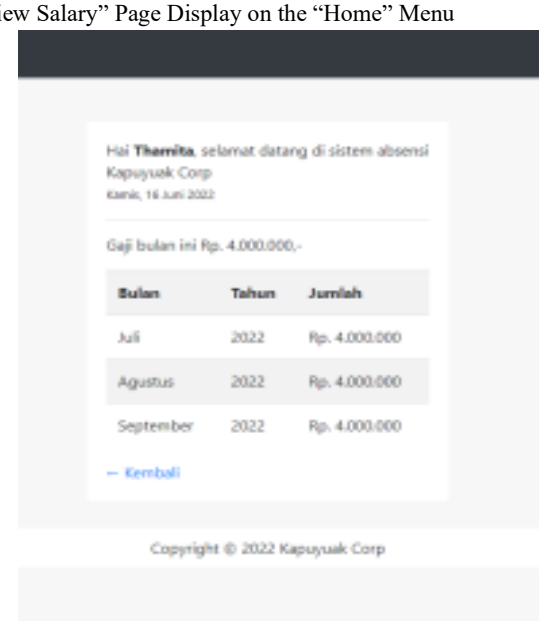

Figure 7. View Salary Page View

In Figure 7, it shows the see salary page where the employee has clicked the "see salary" button first, then goes to the see salary page as shown above. On the salary viewing page, employees can see and find out how much salary they earn each month.

CONCLUSIONS

Attendance is done as a benchmark for an employee whether the employee can be on time in the office or not and can also improve professionalism. The success and progress of the office is determined by its competent employees. So, with this online attendance, the office can make decisions about which employees are not competent. HRD will be greatly assisted because their work becomes easier in summarizing all employee attendance data that comes in because the data that comes in is neatly arranged without having to do it manually. In further research, it can be developed by adding calculations if there is a salary reduction that is seen from leave or absence of employees which is calculated automatically.

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