

Web-Based Agenda Information System Management using Codeigniter Framework

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ABSTRACT

The Jombang Regency Communications and Informatics Agency (Kominfo) is a regional government agency responsible for implementing communications, informatics, cryptography, and statistics. Kominfo also plays a strategic role in supporting smooth communication and information management within the Jombang Regency government. One crucial aspect that must be managed effectively is the recording and management of activity agendas involving various parties, both internal and external. This agenda includes invitations from various government agencies, organizations, and private parties that require the involvement of the Communications and Information Technology Agency in various events or meetings. To address these issues, a web-based Activity Agenda Information Management using the CodeIgniter framework was developed. This system aims to provide an integrated platform for staff to record and manage activity agendas more easily and quickly. Furthermore, department heads can quickly assign employees to attend activities based on the information available in the system. This web-based Event Agenda Information Management system can improve efficiency in managing event agendas, speed up the recording process, and make it easier for department heads to determine which employees will attend events or receive invitations from outside the department. Furthermore, this system can reduce errors in data recording and improve the accuracy of the information presented.

Keywords: Management; information; website; Agenda; Framework; Codeigniter.

INTRODUCTION

The Jombang Regency Communications and Informatics Agency (Kominfo) is a regional government agency responsible for implementing communications, informatics, cryptography, and statistics. Kominfo also plays a strategic role in supporting smooth communication and information management within the Jombang Regency government. Currently, recording activity agendas at the Communication and Informatics Agency is still done manually or using a simple system that is not well integrated. This process has several weaknesses, such as difficulty in searching agenda data, a lack of transparency in information distribution, and delays in appointing employees to attend an activity. This can hinder work effectiveness and result in imperfect agenda information management. Furthermore, manual agenda management systems often lead to scheduling inaccuracies and data recording errors (Aditya Irianto, 2022). For example, invitations received may not be promptly recorded, making it difficult for department heads to determine which employees should attend. This can lead to miscommunication or even employee absences from events they should attend.

To address these issues, an information system capable of effectively and efficiently recording and managing activity agendas is required (Muzaki & Agustin, 2025). The proposed solution is the development of a web-based Activity Agenda Information System Management using the CodeIgniter framework. This system aims to provide an integrated platform that staff can use to record and manage activity agendas more easily and quickly. Furthermore, department heads can quickly assign employees to attend activities based on the information available in the system.

METHOD

In this study, the author used the Research and Development (R&D) method because it aimed to produce a product in the form of a teacher performance evaluation and control management website that was truly useful and suited to user needs. This R&D also serves as a systematic and iterative scientific

method for producing or improving educational products. It begins with needs analysis, followed by prototype development, validation testing, and large-scale implementation (Afriani, 2025). The following is an example of the stages of a web-based teacher performance evaluation and control management system using the R&D method:

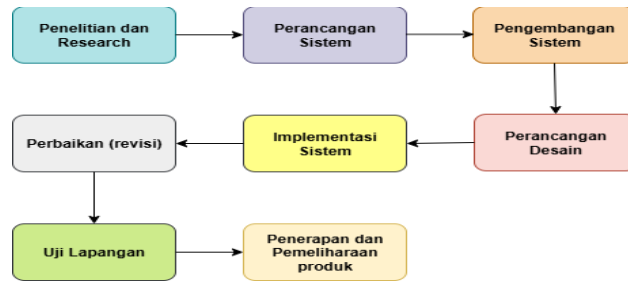


Figure 1. R&D Method

RESULT AND DISCUSSION

Designing a system flow for using an office agenda website, from the login process to approval and display of agendas on the front end. The following flowchart explains how staff can add agendas, how department heads verify them, and how approved agendas are displayed to employees.

Login is a Users log in to the system by entering a username and password. The system will recognize the logged-in user as Staff or Department Head based on the username and password. Staff can fill out the form to add an activity agenda, including the activity name, time, location, and invitation documents (if applicable). Once completed, the agenda will appear in the staff agenda list and on the Head of Department's page for confirmation. The status will be "Unconfirmed" pending confirmation from the Head of Department. Staff can edit the entered data if there are any errors. Once confirmed by the Head of Department, the status will change to "Confirmed".

The Head of Department will review the list of agendas submitted by staff. The Head of Department can then "Confirm" the agenda by selecting the names of the employees who will be participating in the activity. Once the names of the employees have been selected and confirmed, the agenda status will change to "Confirmed". The confirmed agenda will then automatically change its status on the Staff page and will also be displayed on the Employee Frontend page.

All confirmed agendas will be displayed in an activity list visible to all office employees. Staff can see who is participating in the activity. The following is a flowchart of the system flow from the office agenda website. 4) Agenda Display (Employee Frontend). All confirmed agendas will be displayed in an activity list visible to all office employees. Staff can see who is participating in the activity. The following is a flowchart of the system flow from the office agenda website.

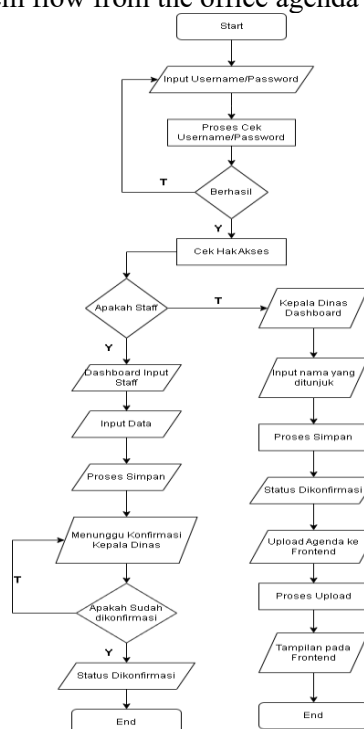


Figure 2. Flowchart Website System

Result

The CodeIgniter framework was chosen for the development of this system due to its flexibility and superior support for the Model-View-Controller (MVC) concept. Using CodeIgniter allows for faster and more structured application development. Furthermore, CodeIgniter offers features that simplify data management and improve overall system performance. With the CodeIgniter framework's web-based Activity Agenda Information System, efficiency in managing activity agendas can be increased, the recording process accelerated, and the department head can be more easily assigned to attend activities or receive invitations from outside the department. Furthermore, this system reduces errors in data recording and increases the accuracy of the information presented.

With this website, the Jombang Regency Communications and Informatics Office can carry out its duties more effectively, optimize existing human resources, and improve the quality of information and communication services within the local government. The use of web-based technology in managing activity agendas also aligns with the digitalization trend in government, which aims to create a more modern, transparent, and efficient administrative system.

Discussion

The login page is designed as the main gateway for users to access the system. On this page, users must enter their registered username and password to gain access according to their rights, whether as staff or as a department head. Creating a login page requires coding in the Controller, Model, and View to ensure the authentication system runs smoothly. The Controller handles the logic of the login process, such as username and password validation. The Model interacts with the database to verify user data matches. Meanwhile, the View displays the login page interface, where users enter their credentials.

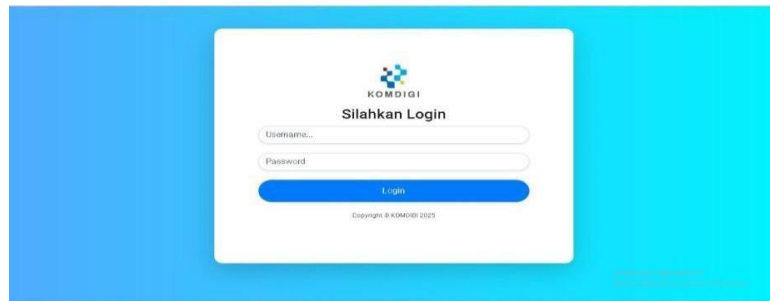


Figure 3. Login Page

The staff page is specifically designed for users with staff roles. On this page, staff can access various features related to their duties, such as inputting activity agendas, viewing a list of submitted activities, and monitoring the approval status from the department head. The staff page is designed for ease of use with clear navigation, simplifying the activity management process. Furthermore, notifications are provided to notify staff if there are changes to the status of their submitted agendas. To implement the staff page, three main components are required in CodeIgniter 3. The Controller, the Model, and the View. The Controller is responsible for handling user requests, connecting data from the model to the view, and managing business logic, such as saving the agenda entered by staff or retrieving the list of submitted activities. The Model is used to interact with the database, such as storing agenda data, retrieving the list of activities based on status, and updating agenda information if there are changes from the department head. Meanwhile, the View serves as an interface that displays the staff page, including the agenda input form, the list of submitted activities, and notifications of agenda status changes, making it easier for staff to manage their activities.

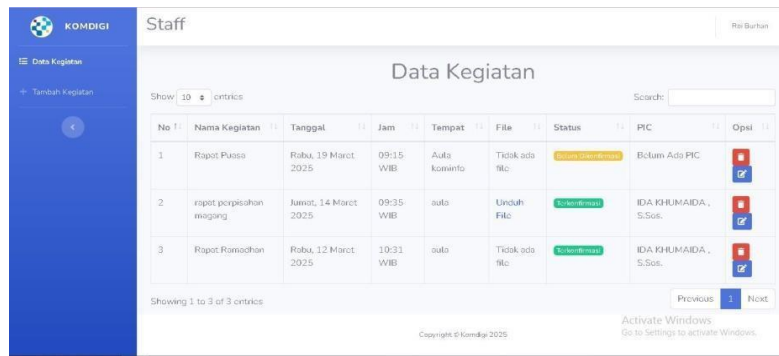


Figure 4. Staff Page

The department head page is specifically designed for users with the department head role. On this page, the department head can view a list of agendas submitted by staff and assign staff to attend activities. This page displays a list of submitted agendas and their details, including time, location, and attached documents. The department head can easily access the approval or disposition feature through the provided action buttons. Additionally, the system can notify staff once the department head has made a decision on a submitted agenda. To implement the department head page in CodeIgniter 3, three main components are required: the Controller, the Model, and the View.

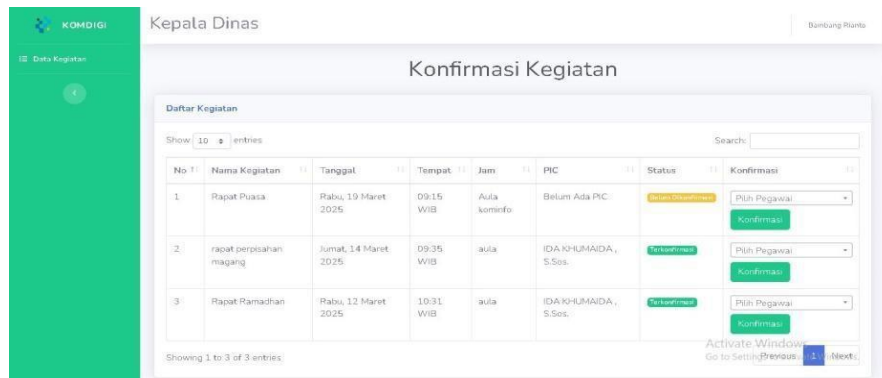


Figure 5. Head Office Page

The Activity Confirmation Content page displays details of activities submitted by staff and requiring further confirmation by the department head. On this page, the department head can view complete information about the activity, such as the activity name, date, location, time, and supporting documents. Additionally, the department head can assign staff to attend the activity based on their needs.

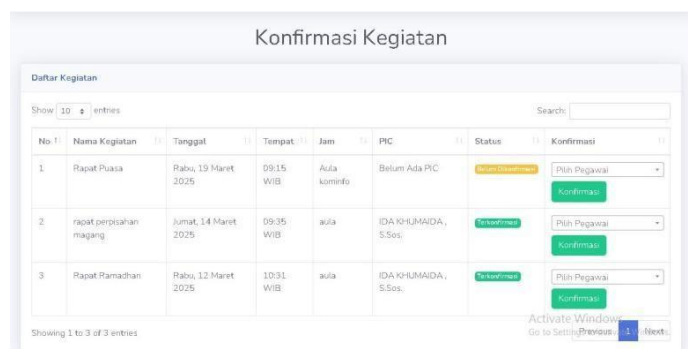


Figure 6. The Activity Confirmation Content page

The final step is testing, which uses the Black Box Testing method to validate the system's functionality from a user perspective. The test results show that all features function as expected.

CONCLUSION

Based on the research results, it can be concluded that the web-based activity agenda information system management framework Qodeigniter in the Communication and Informatics Office (Keminfo) of Jombang Regency has been successfully designed and built. This system is able to overcome the

weaknesses of manual processes by providing features for login, staff, attendance confirmation content and the head of department page for control. The implementation of this system makes the administrative process more informative, effective, efficient, accurate, and transparent, which is expected to increase satisfaction and motivation within the Ministry of Communication and Informatics Office of Jombang Regency. For further development, it is recommended to add multi-user features (for example for all department heads) and integrate it with attendance devices and digital activity reports for further automation.

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