

E-Training System To Improve HR Capability at Indofood Factory Using Codeigniter Framework



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Abstract

Digital developments on a global scale are now growing very rapidly, especially with the emergence of a covid-19 pandemic that has made all institutions, both education, offices and various other types of institutions, begin to adapt to the use of computers and mobile phones, where everything is based on IoT Internet of Thing, namely all types. the activities are carried out online, besides that, there are many obstacles, such as the amount of time wasted because they have to prepare training classrooms, prepare ppt slides for each training session, and prepare training questions which will then be printed and distributed to training participants. A lot of costs and energy are wasted in conducting training, especially if you have to do training at the branch office and the work of employees is not controlled when they have to do training. For this reason, it is necessary to build an information system for the training department to provide informative training data and to automate the recording of training history. To support the program design process developed by implementing a throw-away prototype model, using the PHP programming language with CodeIgniter Framework, database design using the PostgreSQL database. With the training department information system, the process of delivering training information is faster and more informative, facilitating the process of recording employee training history, and reducing the use of paper because it is computerized making it easier to conduct training and shorten the training process.

Keywords: *E-Training, CodeIgniter Framework, PostgreSQL, Employee.*

1. Introduction

Digital developments on a global scale are now growing very rapidly, especially with the emergence of a covid-19 pandemic that has made all institutions, both education, offices and various other types of institutions, begin to adapt to the use of computers and mobile phones, where everything is based on IoT Internet of Thing, namely all types [1].

In this case, there are many ways that a company can improve the quality of good performance. One of the ways is to increase the productivity of existing employees, so that employees have skills and knowledge on the job. Therefore is expected to provide better performance results [2]. The role of the company to increase the productivity of a company's employees are very important. Companies that have a desire to compete in the industrial market, of course, will pay more attention to performance and capabilities of its employees and provide training and knowledge that is felt to increase a person's productivity [3].

A lot of time is wasted because you have to prepare a training class room, prepare ppt slides every time you conduct training, and prepare training questions that then will be printed



accompanied by an example of the code implementation. The MVC architecture is divided into 3 parts:

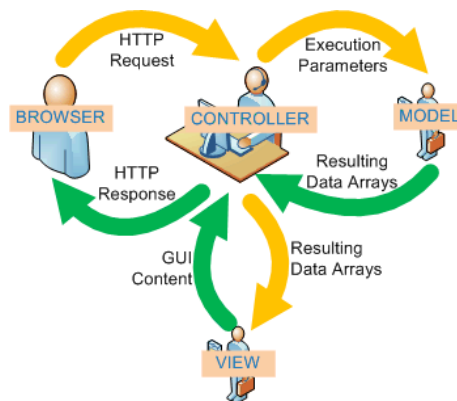


Figure 2. MVC Concept COdeigniter Framework [21]

3. Findings

3.1 Use Case Diagram

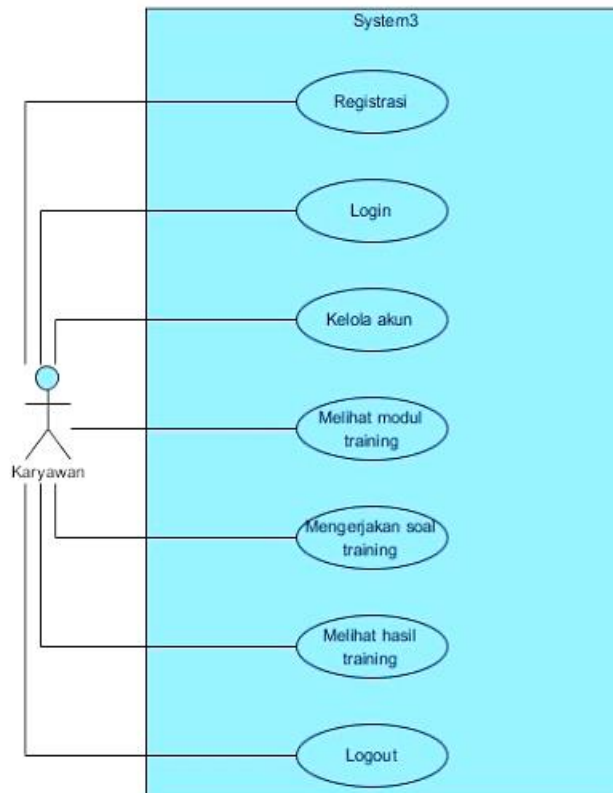


Figure 3. Use Case Diagram Employee

Based on Figure 3. Employee Use Case diagram currently running:

1. There is one system covering the process of employee activities in managing the E-Training system.
2. There is 1 actor in the process of running activities, namely: Employees.
3. And there are 7 use case activities carried out by employees, namely: registration, login, managing accounts, viewing training modules, working on training questions, viewing training results and logging out.

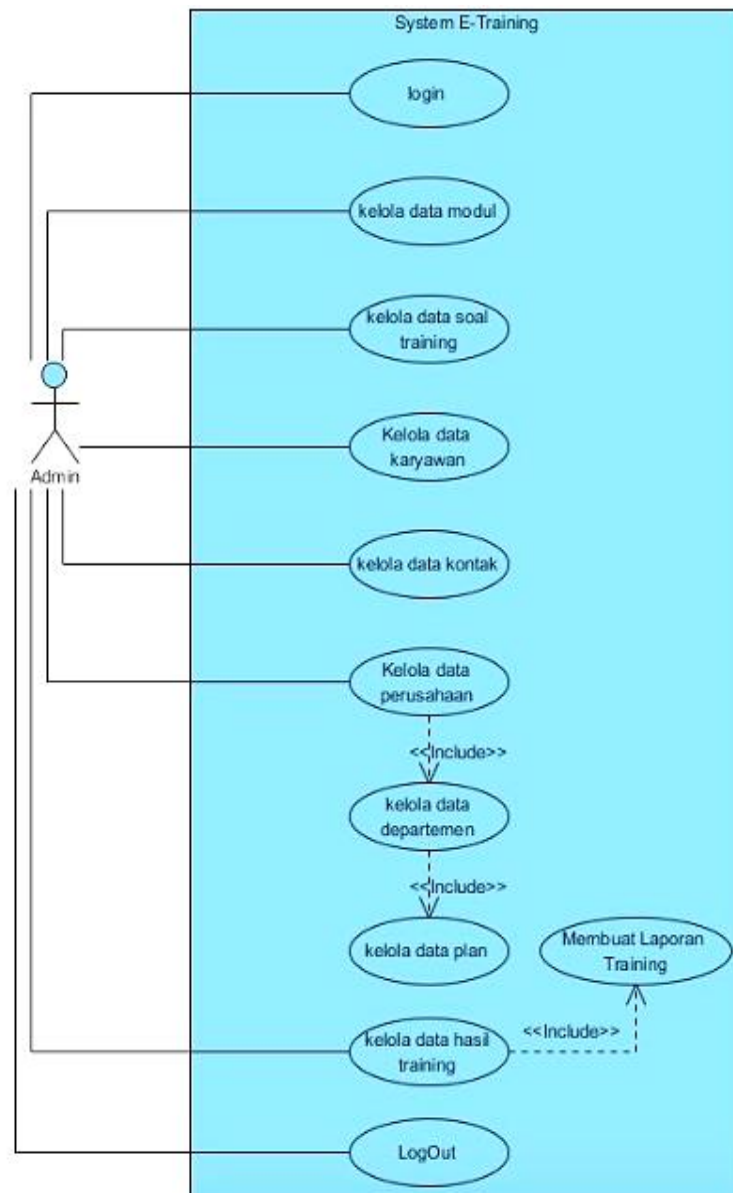


Figure 4. Use Case Diagram Admin

Based on Figure 4. Use Case diagram of the currently running admin:

1. There is one system that covers the process of admin activities in managing the E-Training system.
2. There is 1 actor in the process of running activities, namely: Admin.
3. And there are 11 use case activities carried out by the Admin, namely: logging in, managing module data, managing training data, managing employee data, managing contact data, managing company data such as data plans and departments, managing training results data and making training reports and logging out.

3.2 Research Implementation

1. Login Display

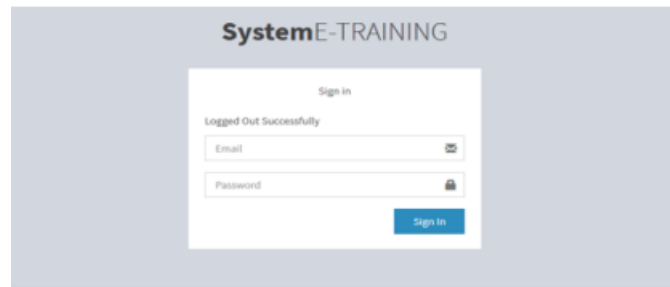


Figure 5. Login Display

2. Admin dashboard display



Figure 6. Admin dashboard display

3. Display company data

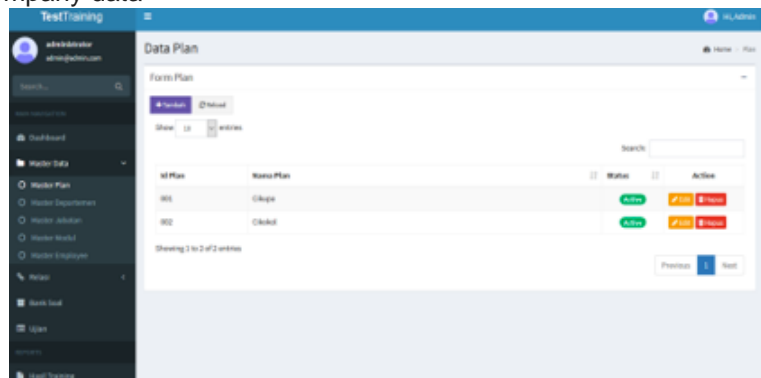


Figure 7. Display of company data

4. Display module data

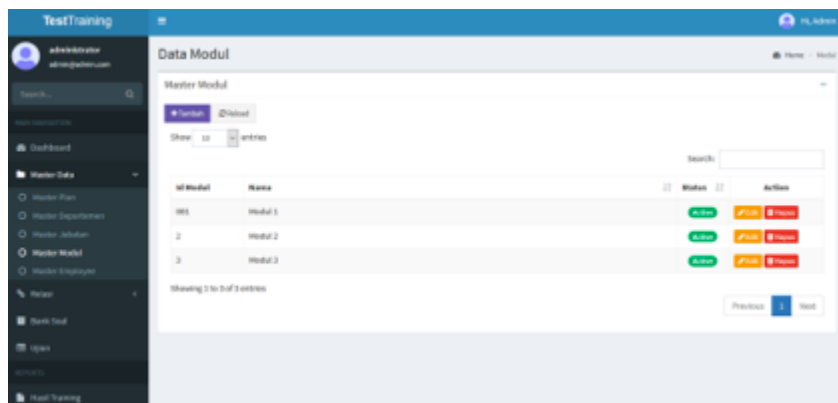


Figure 8. Display of module data

5. Display employee data



Figure 9. Display employee data

6. Display of question data

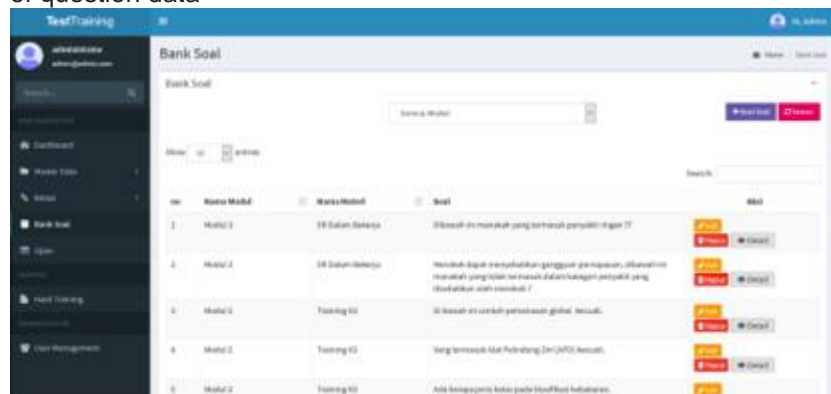


Figure 10. Display of question data

7. Display of result data

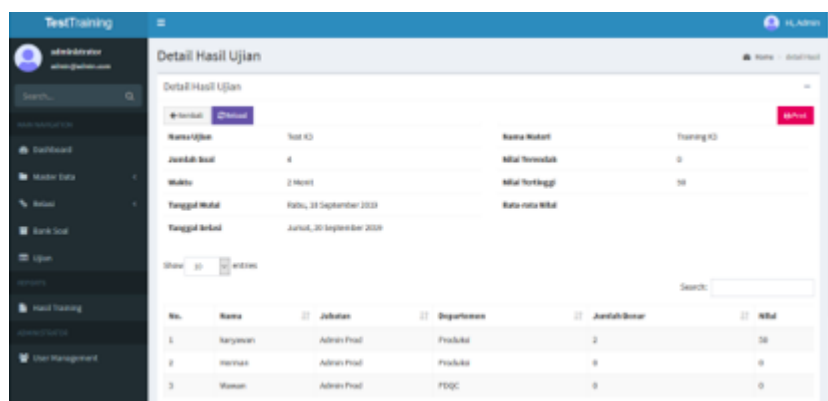


Figure 11. Display of result data

8. Employee page view



Figure 12. Employee data display

9. Display employee training list

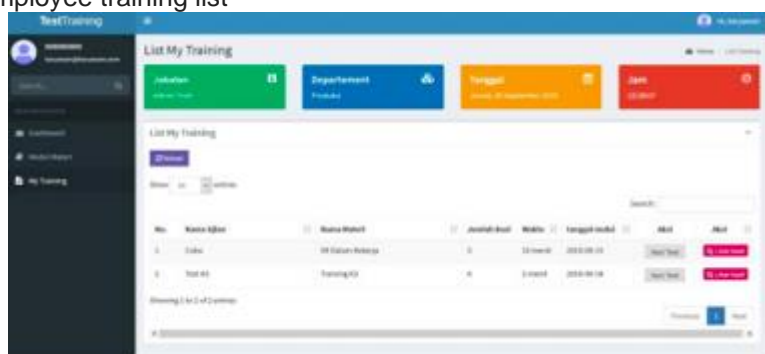


Figure 13. Display of employee training list

10. Training page display



Figure 14. Training page display

11. Initial view of training

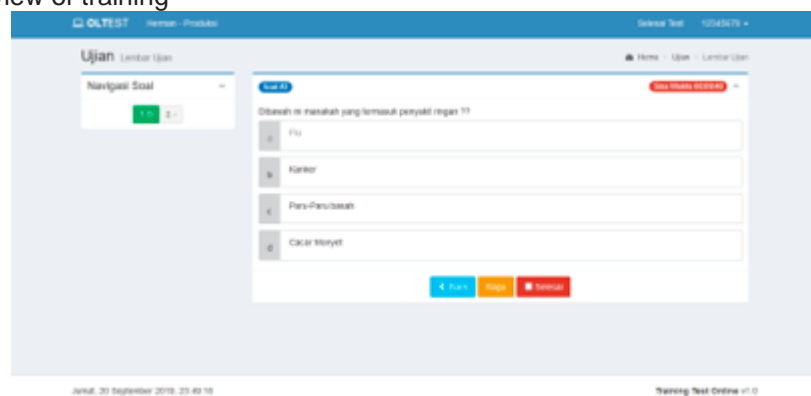


Figure 15. Display of training

4. Conclusion

The current training system is still classified as manual, because in doing training, you still have to prepare the classroom first, and must come to the branch office if there is training there. In delivering the material, they still use the presentation made by trainer, and in the training the questions that are made must be printed according to the employees participating in the training.

Web-based E-Training system applications can help solve problems that occur in the running system, make training easier and streamline the training process.

Proposed system, it is hoped that it will make it easier to carry out control processes for employees to be trained and can help companies provide information about the extent to which employees have the ability after the results of the training.

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