

CH6 - THORIQULHAQ

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Submission date: 01-Jul-2023 03:25AM (UTC+0800)

Submission ID: 2124877427

File name: CH6.pdf (65.31K)

Word count: 485

Character count: 2780

CHAPTER 6

CONCLUSION

6.1 Introduction

This chapter examines the accomplishments, encountered challenges, limitations, and suggestions for future enhancements in the project known as Power Plants Performance Monitoring System (P3MS) for PT PLN (Persero) UP3 Pamekasan.

6.2 Achievement of Project Objectives

Power Plants Performance Monitoring System (P3MS) for PT PLN (Persero) UP3 Pamekasan has successfully accomplished all the objectives outlined in Chapter 1. The specific achievements include:

- i. The system enables the admin to manage user including staff and admin itself in the manage user module.
- ii. The admin can manage all master data including unit, power plant and material through the manage master data module.
- iii. PIC staff could approve or reject created recapitulation through the system.
- iv. The system can generate a repost in form of excel from the recapitulation data that created by operator staff and already approved by PIC staff.
- v. Operator staff has ability to create and manage a recapitulation with ten available recapitulation type.

However, along the way, several challenges were encountered during the development of Power Plants Performance Monitoring System (P3MS) for PT PLN (Persero) UP3 Pamekasan:

- i. The project has the potential to include a downloadable Excel feature, which may require the use of a third-party extension. This enhancement will allow users to generate Excel files directly from the system, providing a convenient way to export and manipulate data.
- ii. To optimize system performance, file compression techniques can be employed to reduce the size of the build. This will help the system run faster, especially in areas with limited internet connectivity such as remote islands. Despite these optimization efforts, the system will still prioritize a user-friendly interface and experience.
- iii. Efforts will be made to minimize the time taken for database indexing. Managing a single type of recapitulation often involves complex relationships between more than four tables simultaneously. Streamlining the indexing process will improve the overall efficiency of the system, reducing the time required for data retrieval and management.

6.3 Suggestions for Future Improvement

To address the existing problems and weaknesses in the system, several improvements can be implemented over time. These enhancements aim to make job management faster and easier. Here are some suggestions for improving the system:

- i. Introduce a feature that allows users to upload evidence for each newly created recapitulation. This feature will enable users to provide supporting documentation or proof for the recapitulation, enhancing the accuracy and reliability of the data. Additionally, it will facilitate better record-keeping and auditing processes.
- ii. Increase the implementation of email notifications to keep track of system activities and updates.
- iii. Integrate a plugin or feature to schedule jobs, enabling the monitoring, automatic status updates, and data backup of the system. This helps ensure efficient system management and maintenance.

By implementing these suggestions, the system can be enhanced to overcome current limitations and provide a more streamlined and effective user experience.

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