NEWTON: Networking and Information Technology
Vol. 2 No. 3 February 2023, Page. 111 - 116
E-ISSN: 2797-0728

Web-Based Task Notification System and Employee Performance Results Storage

Siti Sufaidah[1*], Syahrillah Rahma Wardani[2], Primaadi Airlangga[3]
[1]Information System, Universitas KH.A.Wahab Hasbullah
[2,3]informatics, Universitas KH.A.Wahab Hasbullah
*Email: idasufaidah@unwaha.ac.id

ABSTRACT
Significant developments in information technology have led to changes in people's mindsets and lifestyles. This also affects the performance of agencies including universities. the results of observations and interviews conducted at Unwaha show that the storage of employee work results is still manual which risks losing data, besides that there is no notification of employee assignments so that employees tend to experience difficulties in carrying out tasks.Therefore it is necessary to develop an information system for notification of tasks and storing employee work results to prevent data loss. information system development was carried out using the waterfall method from April to August 2022 at KH A. Wahab Hasbullah University, Jombang. The research results show that the information system developed makes it easier for employees to report work assignments, makes it easier for employees to receive additional assignments, can manage and store all assignment data from employees, and helps shorten the time in the process of reporting employee work assignments.

***Keywords**: Information systems; announcement; storage task; employee*

INTRODUCTION
Significant developments in information technology have caused changes in mindsets to human lifestyles (Yuliadi, et al., 2022). This also affects the performance of agencies including universities (Ramadhan, et al., 2019). The challenges faced by higher education institutions are increasing, especially the duties of employees (Ramadhan, et al., 2019). This situation requires employees to utilize information technology to improve work efficiency. Using information technology also makes it easier for employees to record records so that no data is left behind (Rouza & Yanto, 2019).

The results of observations and interviews conducted with KH. A. Wahab Hasbullah University (Unwaha) Jombang pointed out that the employee work storage system has so far been manual. In addition, the absence of an information system that accommodates employee assignments causes Unwaha employees to often forget about the tasks they have done. Based on these problems, it is necessary to develop a web-based information system for notification and storage of the work of Unwaha employees. An information system is a combination of work procedures, information, people and information technology that is organized to achieve certain goals (Hidayat & Buana, 2018). Research by Rouza & Yanto (2019), shows that the development of a web-based performance appraisal information system can overcome problems in terms of evaluating employee performance. Research Wijaya, et al. (2020), also shows that the development of a web-based information system can speed up employee performance and minimize errors in data entry compared to manual data entry.

METHOD
Research methods
This research was conducted from April to August 2022 at KH. A. Wahab Hasbullah University, Jombang. The research begins with observation and interviews to find out the problems of Unwaha employees. After that, a literature study was carried out to collect the information needed to solve the problem. After that, the design of information system development activities for collecting employee performance results is carried out. Information system development is carried out using the waterfall method. The waterfall method is a method that uses a systematic approach, where the stages to management are carried out in stages (Wahid, 2020). The stages of developing an information system can be seen in

Figure 1.

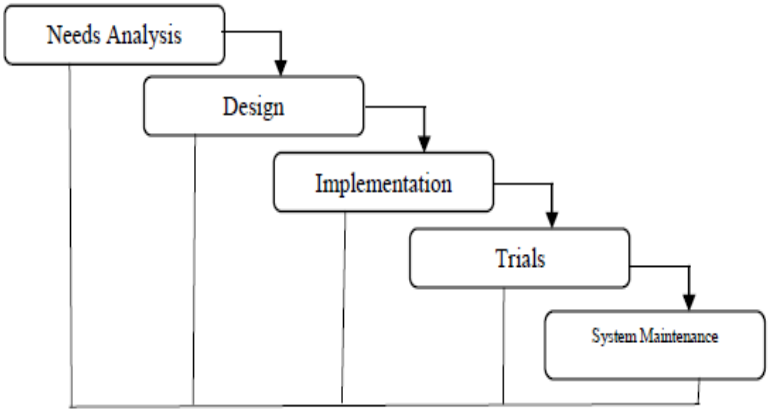

Figure 1. Waterfall Diagram

The flow of information system development based on Figure 1 is as follows:

- Needs analysis
  In this stage, it starts with collecting data in various ways, such as observations, interviews with one of the employees and lecturers of KH.A.Wahab Hasbullah University.
- Design
  This design stage provides an overview of designing the appearance of the website created. In this study, the author designed a display design that would be displayed on the website of the KH. A.Wahab Hasbullah university employee task notification system.
- Implementation
  The implementation stage begins with the coding process to go through from the beginning to the preparation of the website. In this study, the author used codeigniter and PHP MySQL to design a website for the task notification system employees of KH. A.Wahab Hasbullah university.
- Trials
  The trial stage is the test stage on the website that has been created after the coding process is carried out. On the website created by the researcher designed the website for report input, see task notifications and storage of employee performance results. So a trial was carried out whether this website could run in accordance with what was previously expected to be applied to the website of KH. A.Wahab Hasbullah University employee task notification system.
- System maintenance
  The maintenance stage is the final stage where the author can later make improvements if fraud is found on the website that has been designed.

Research flow

Making this website using data flow diagrams (DFD) which can be seen in Figure 2. Data flow diagrams that describe the process of a system. The data flow diagram also provides information about the output and input of each entity from the process itself on the website which only relates to management and employees. UNWAHA employee and management relations are in the task of data input.

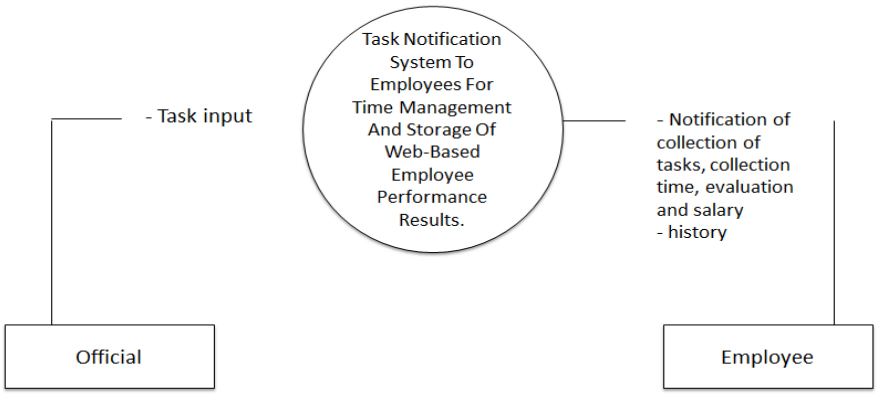

Figure 2. Data Flow Diagram

RESULT AND DISCUSSION

The following are the results and discussions obtained after research and the process of working on the Task Notification System to Employees for Time Management and Storage of Web-Based Employee Performance Results:

Result

The results of developing a work notification information system and storing the work results of Unwaha employees are as follows.

- Login

On the login page officials and employees can use to enter the website using their respective usernames and passwords. the display of the login page can be seen in Figure 3.

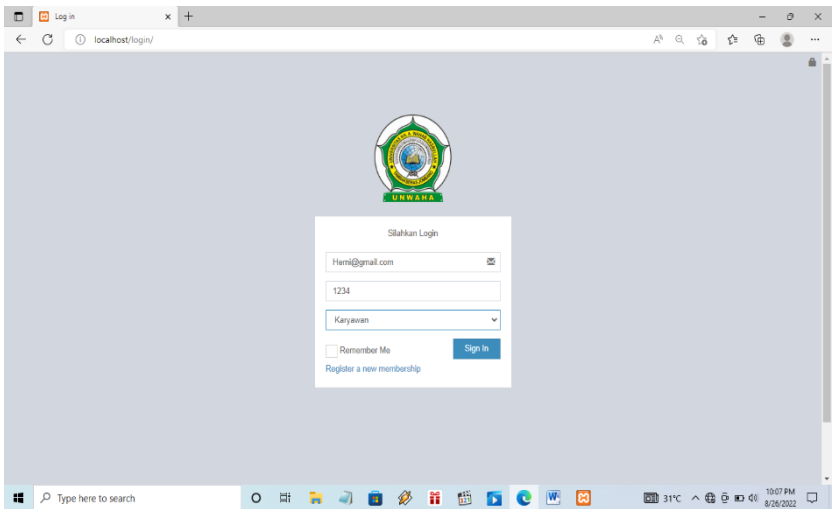

Figure 3. Login page

- Job

The task page displays employee task list data which includes main tasks, revision tasks and additional tasks. the task page display can be seen in Figure 4.

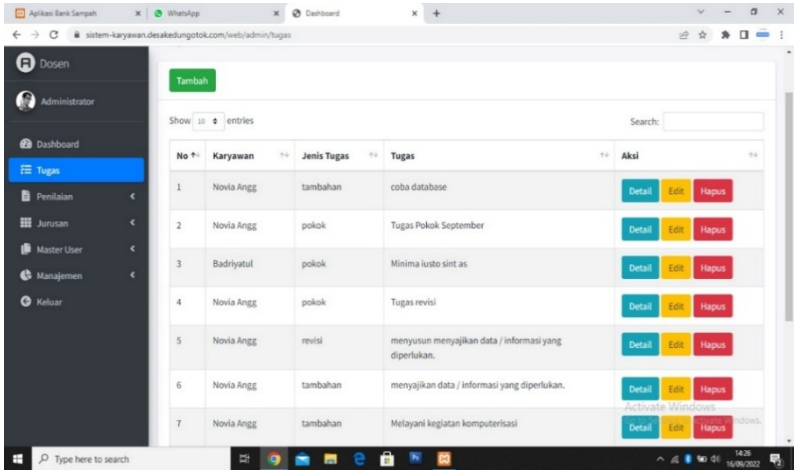

Figure 4. Job page

This page will display the task details as well as the task collection time and task start time. The task detail page display can be seen in Figure 5.

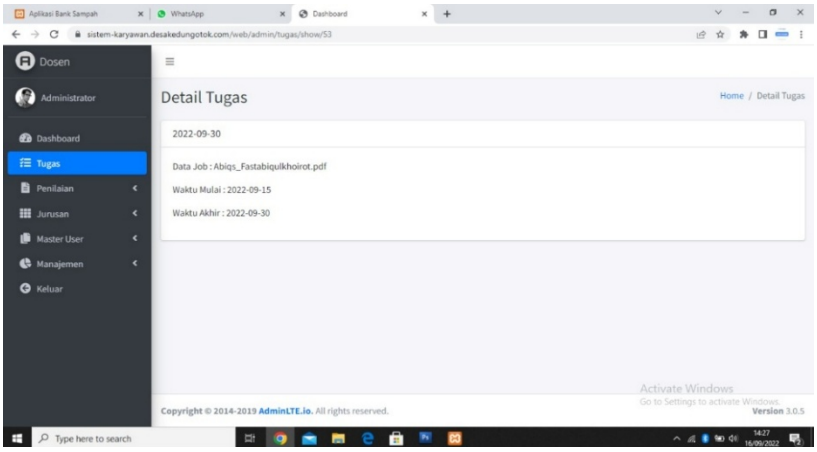

Figure 5. Detail job page

- Lecturer

On this page, the registered lecturer's biodata will be displayed. The appearance of the lecturer biodata page can be seen in Figure 6.

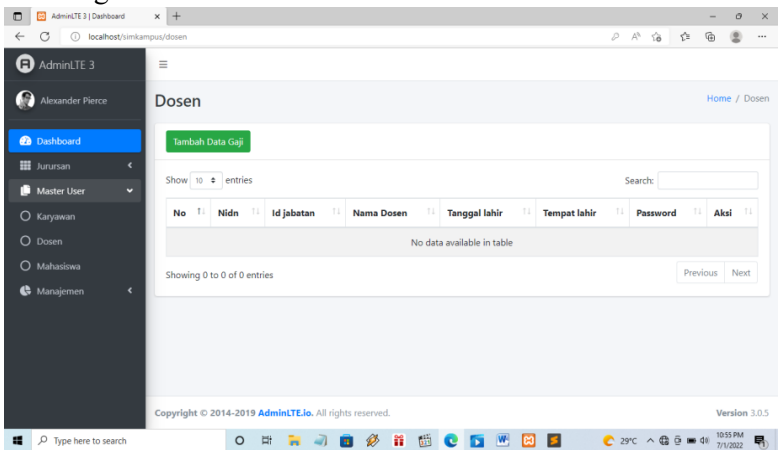

Figure 6. Lecturer

- Salary

This page displays basic salary data, bonus salary, salary allowances and overtime pay for one month and also displays salary data for one year. salary display page can be seen in Figure 7.

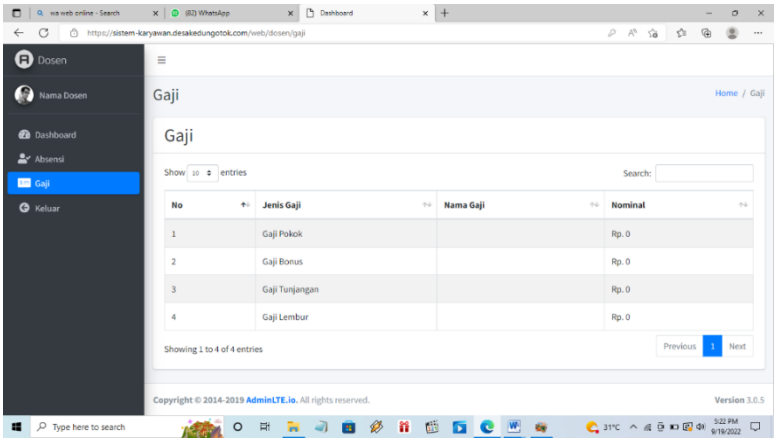

Figure 7. Salary

- Evaluation

This page displays employee appraisal data for one month and their progress. the display of the evaluation page can be seen in Figure 8.

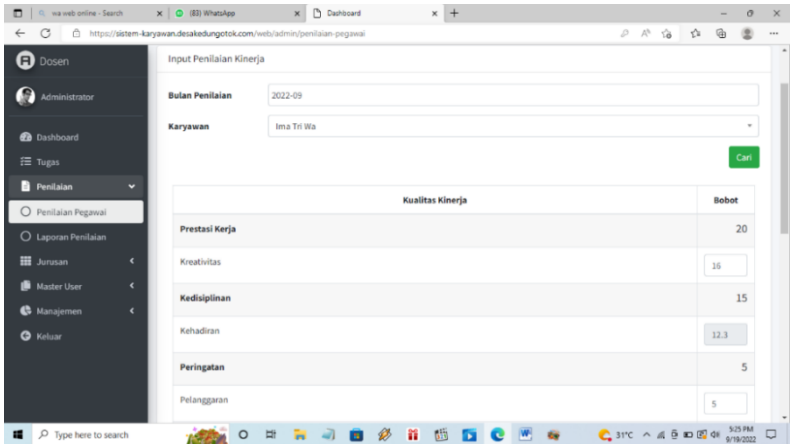

Figure 8. Evaluation

Discussion

After developing a notification information system and storing employee performance results, the next step is to test the information system. Tests were carried out using the blackbox method (Wijaya & Astuti, 2021). the blackbox method is a software quality testing method that aims to find interface errors, data structures, and performance errors (Yulianti, et al, 2022). The test results using the blackbox method show that the information system for notification and storage of web-based employee performance results is feasible to use. This is in accordance with the research of Yazidinni'am & Haryono (2019) which shows that system testing using the blackbox method shows the results that the developed system is feasible to use. these results are also in accordance with the research of Sri, et al. (2020), which shows that the development of a web-based information system really helps employees in completing their tasks.

CONCLUSION

Based on the research results from testing regarding the discussion of the task notification system to

employees for time management and storing web-based employee performance results, it can be concluded as follows:

- Facilitating employees in reporting employee work assignments,
- Facilitating employees in receiving additional assignments,
- Can manage and store all task data from employees,
- Helps shorten the time in the process of reporting employee work assignments.

REFERENCES

Hidayat, A. & Buana. (2018). Sistem Informasi Perpustakaan Digital Berbasis Web Menggunakan Framework Slim Cendana. *Jurnal Manajemen Informatika*, 5 (1): 1-10. Halaman Jurnal: http://jurnal.stmik-dci.ac.id/index.php/jumika/.

Ramadhan, S., Sarkum, S., Purnama, I. (2019). Sistem Informasi Penilaian Kinerja Pegawai Berbasis Web pada Operasi Perangkat Daerah Kantor Camat Rantau Utara Labuhanbatu. *Jurnal Teknik Komputer,* 5(1):93-96. DOI: 10.31294/jtk.v4i2

Rouza, E. & Yanto, B. (2019). Sistem Informasi Penilaian Kinerja Pegawai pada Universitas Pasir Pengairan. *Seminar Nasional Sains & Teknologi Informasi*, 383-387. https://prosiding.seminar-id.com/index.php/sensasi/article/download/332/324

Sari, N. N., Widiatry, Putra, P. B.A.A. (2020). Sistem Informasi Kepegawaian UPT Kesatuan Pengelolaan Hutan Produksi Kapuas Tengah Unit IX. *Jurnal Informatika*, 7(2): 183-191. https://ejournal.bsi.ac.id/ejurnal/index.php/ji/article/view/7935/pdf

Wahid, A.A. (2020). Analisis Metode Waterfall untuk Pengembangan Sistem Informasi.*Jurnal Ilmu-ilmu Informatika dan Manajemen STIMK*. https://www.researchgate.net/publication/346397070_Analisis_Metode_Waterfall_Untuk_Pengembangan_Sistem_Informasi

Wijaya, N., Febriyanti, A. R., Wibowo, A. (2020). Aplikasi Pengelolaan Data Kepegawaian Berbasis Web pada PT. Pelayaran Sakti Inti Makmur Palembang. *Jurnal Sistem Informasi dan Komputer*, 9(1): 42-50. DOI : 10.32736/sisfokom.v9.i1.706.

Wijaya, Y. D. & Astuti, M. W. (2021). Pengujian Blackbox Sistem Informasi Penilaian Kinerja Karyawan PT. Inka (Persero) Berbasis Equivalence Partitions. *Jurnal Digital Teknologi Informatika*, 4(1): 22-26.

Yazidinni'am, M. & Hariono, T. (2019). Sistem Informasi *Dashboard* dalam Rangka Optimasi Persiapan Akreditasi di Perguruan Tinggi. *EPIC: Exact Parers in Compilation*. 1(4): 155-160.

Yuliadi, Rodianto, Imansyah. (2022). Sistem Informasi Penilaian Kinerja Pegawai Berbasis Web (Studi Kasus: Kantor Kecamatan Empang). *Indonesian Journal of Engineering*, 2(2):121-134. https://unu-ntb.e-journal.id/ije/article/download/153/138.

Yulianti, Desyani, R., Chaniago, R. R., Iswanto, H., Suroso, E., Hermanto, T. S. (2022). Pengujian Aplikasi Sistem Informasi Akademik Berbasis Website Menggunakan Teknik Equivalence Partitioning dan Metode Blackbox. *Jurnal Informatika Universitas Pamulang*, 7(1): 145-150. doi.10.32493/informatika.v7i1.17528