



Web-Based Employee Information System for Hana-Net Philippines Co. Inc. Trucking Company

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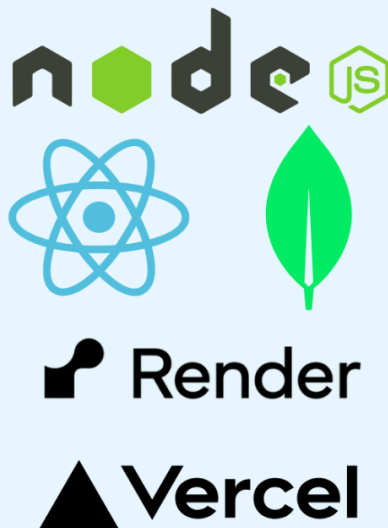
ABSTRACT

This study addresses the challenges faced by Hana-net Philippines Co. Inc., a trucking company based in Biñan, Laguna, transitioning from traditional human resource management methods to a modern, web-based information system. The company, with 78 employees servicing 7 partners, has relied on pen-and-paper records and Excel spreadsheets for HR functions since 1999, which is prone to data insecurity and inefficiencies. This research details the development of a web-based employee information system using the MERN stack (MongoDB, Express.js, React.js, Node.js) to centralize employee data management, streamline payroll processing, automate leave applications, and enhance overall HR operations. System evaluation using Brooke's System Usability Scale (SUS) with ten company employees resulted in a mean score of 76.75, indicating good usability. User feedback highlighted areas for frontend interface improvements while confirming the system's effectiveness in addressing the limitations of manual processes. The successful implementation demonstrates how small businesses in the logistics industry like Hana-net can benefit from tailored information systems.

OBJECTIVES OF THE STUDY

The general objective of this study is to design and implement a web-based application focused on organizing and systemizing employee information and human resources management, specifically made for Hana-net Philippines Co. Inc. Trucking Company.

METHODOLOGY



RESULTS AND DISCUSSION

The web-based application was evaluated using Brooke's System Usability Scale (SUS) with ten (10) employees of Hana-net Philippines Co. Inc. as respondents. After completing the SUS questionnaire consisting of ten statements ranked from 1 (strongly disagree) to 5 (strongly agree). The results revealed a mean SUS score of 76.75. Table 1 shows the score of each respondent

Respondent	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Score
1	4	4	3	4	3	3	4	4	4	4	92.5
2	4	3	3	2	4	3	4	4	4	3	85
3	4	3	3	2	4	3	3	2	4	2	75
4	4	4	4	2	3	3	4	3	2	3	80
5	2	2	2	2	2	2	2	2	2	2	50
6	4	4	3	4	4	4	2	4	4	4	92.5
7	4	4	4	4	4	3	4	4	4	4	97.5
8	3	2	2	1	2	2	3	2	2	1	50
9	3	2	4	1	3	2	4	4	3	1	67.5
10	3	3	3	3	3	4	3	4	3	2	77.5

CONCLUSION

The development and implementation of the Web-based Employee Information System for Hana-net Philippines Co. Inc. Trucking Company successfully addressed the limitations of traditional data-keeping by centralizing employee information management, streamlining HR functions like attendance and leave tracking, and providing employees access to update personal details, view salary, and file leave requests through a user-friendly interface. The system's effectiveness and usability were validated by an above-average System Usability Scale score of 76.75. Future improvements may include integrating a driver scheduling feature, enhancing mobile responsiveness, and refining the user interface. Overall, the system modernized Hana-net's HR processes, offering a more efficient and accessible solution for both administrators and employees.

ABOUT THE AUTHOR

Luke Adrian D. Pineda is a BS Computer Science undergraduate student of the University of the Philippines - Los Baños. He is the second son of Kathlyn Mary de Fiesta and Rodolfo Pineda. He was raised in San Fernando Pampanga. He is a member of the Makiling Ultimate Club where he served as the Finance Committee Head (A.Y. 23-24).

