

Patient Record Management System using Laravue

Ralph Aran C. Cabañero

Faculty, College of Engineering and Information Technology,
Surigao Del Norte State University, Surigao City, Philippines

Abstract: This study introduces a Patient Record Management System developed using Laravue, combining Laravel PHP and Vue.js. The system aims to streamline patient record handling, enhance data accessibility, and improve overall healthcare efficiency. Through an analysis of existing systems, the study emphasizes the need for Laravue's adoption. The methodology covers system design, development tools, and user feedback. Results include a comprehensive evaluation of system features, performance, and scalability. The Laravue-based system demonstrates its capability to efficiently manage patient records, ensuring secure and reliable healthcare data management.

Keywords: patient, healthcare, laravue, record

REFERENCES

- [1]. Gandrup, J., et.al. 2020. Remote symptom monitoring integrated into electronic health records. Journal of the American Medical Informatics Association, Volume 27, Issue 11, November 2020 doi: 10.1093/jamia/ocaa177
- [2]. Joseph, C., et.al. 2020. Design and Implementation of a Secured Web based Medical Record Management System. International Journal of Computer Applications · March 2020 doi: 10.5120/ijca2020919908
- [3]. Scopf, TR., et.al. (2019). How well is the electronic health record supporting the clinical tasks of hospital physicians? A survey of physicians at three Norwegian hospitals. BMC Health Services Research (2019) 19:934 doi:10.1186/s12913-019-4763-0
- [4]. Yao, J., Gao, Y., Gao, J., Duan, Y., & Zhang, Y. (2019). Advantages and Challenges of EHRs Adoption: A Systematic Review. Health Information Management Journal, 48(2), 62-73. doi:10.1177/1833358318762340
- [5]. Shah, S. A., Kim, J., & Yoon, H. (2020). Key Challenges for Implementing Electronic Health Records (EHRs) in Developing Countries: A Systematic Review. Journal of Medical Systems, 44(12), 1-10. doi:10.1007/s10916-020-01648-9
- [6]. Alotaibi, Y., Federico, F., Niazkhani, Z., Timpka, T., & Rahimi, A. (2020). The impact of electronic health records on healthcare professionals' efficiency and satisfaction: A systematic review. Health Informatics Journal, 26(4), 3063-3084. doi:10.1177/1460458220909291
- [7]. Khairat, S., Coleman, C., Ottmar, P., Jayachander, D., Bice, T., & Carson, S. S. (2018). A Comparative Analysis of EHRs Used in Emergency Departments. Applied Clinical Informatics, 9(2), 394-405. doi:10.1055/s-0038-1642605
- [8]. Pacurariu, A. C., Florin, G., Boboc, M., & Zaha, D. C. (2020). Challenges in Achieving Interoperability for Electronic Health Records in the European Union. Informatics in Medicine Unlocked, 19, 100336. doi:10.1016/j.imu.2019.100336
- [9]. Singh, V., Kaur, M., Singh, G., & Malik, M. (2021). Comparison of React.js and Vue.js: A Review. Journal of Critical Reviews, 8(9), 188-192. doi:10.31838/jcr.08.09.37
- [10]. Huang, D., Liu, D., & Huang, W. (2018). Design and Implementation of Hospital Information Management System Based on Laravel Framework. 2018 International Conference on Cyber-Enabled Distributed Computing and Knowledge Discovery (CyberC), 265-269. doi:10.1109/CyberC.2018.00058



- [11]. Shahriar, H., Babu, K. S., Afroz, Z., & Akther, T. (2019). Design of a Hospital Management System Using Laravel Framework. 2019 International Conference on Robotics, Electrical and Signal Processing Techniques (ICREST), 466-470. doi:10.1109/ICREST.2019.8644277
- [12]. Afzal, M., Asif, M., Waseem, M., & Ali, A. (2019). An Overview of Vue.js Framework: Advantages, Applications and Challenges. 2019 International Conference on Frontiers of Information Technology (FIT), 245-250. doi:10.1109/FIT47772.2019.8968232
- [13]. Bouayad-Agha, N., Fatima, I., & Mahjabeen, Z. (2018). Data Collection Techniques in Qualitative Research Methods. International Journal of Academic Research in Business and Social Sciences, 8(11), 156-163. doi:10.6007/IJARBSS/v8-i11/4855
- [14]. Begum, M. A. A., Lee, S., & Shin, S. Y. (2020). User Acceptance Testing (UAT) for Clinical Information Systems (CIS): A Systematic Review. Studies in Health Technology and Informatics, 270, 11-17. doi:10.3233/SHTI200687
- [15]. Iqbal, A., Abbas, W., & Khaliq, A. (2021). An Extensive Review on PHP Frameworks for Web Development. 2021 10th International Conference on Frontiers of Information Technology (FIT), 271-276. doi:10.1109/FIT52130.2021.9383517