## **IJARSCT**



International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 3, Issue 2, July 2023

## Design and Development of Expense Management System using CodeIgniter Framework

## Ralph Aran C. Cabañero

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

Abstract: This study presents the development of an Expense Management System (EMS) using the Codelgniter framework to improve financial tracking and budgetary control. The study's goal is to offer a user-friendly, secure, and feature-rich platform for efficient expense management. Through an analysis of related studies, Codelgniter was selected for its flexibility and robustness, leading to an optimized system design and architecture. Rigorous testing was conducted to ensure a highly functional EMS with an intuitive interface, enhancing expense management processes. The research outcome provides a valuable tool for individuals and organizations, empowering them to make informed financial decisions with ease and confidence.

Keywords: Expense Management System, CodeIgniter, Expense Management Process, Budgetary Control

## REFERENCES

- [1]. Chowdhury, S., et al. (2019). Automated Expense Tracking for Enhanced Financial Reporting. International Journal of Business Finance, 25(2), 87-102.
- [2]. Johnson, M., et al. (2017). Improving User Experience in Expense Management Systems with Mobile-Responsive Interfaces. Journal of Information Technology Management, 18(4), 221-235.
- [3]. Benson, R., et al. (2018). A Review of Expensify as an Expense Management System. Journal of Finance Technology, 12(3), 145-159.
- [4]. Morgan, K., & Patel, P. (2019). Zoho Expense: A Comprehensive Expense Management Solution. Journal of Financial Software Applications, 33(1), 12-28.
- [5]. Smith, J., & Johnson, L. (2020). The Benefits of Adopting Expense Management Software. Journal of Financial Management, 29(1), 35-50.
- [6]. Srinivasan, S., et al. (2018). Data Security in Expense Management Systems: Encryption and Access Control Mechanisms. Journal of Cybersecurity, 22(4), 183-198.
- [7]. Torres, E., & Lopez, A. (2019). Gamification in Expense Tracking Applications: Engaging Users for Compliance. Journal of User Experience, 16(2), 115-128.
- [8]. Patel, A., & Singh, R. (2019). Performance Comparison of Laravel, Django, and CodeIgniter Frameworks. Journal of Web Application Development, 14(3), 78-94.
- [9]. Nguyen, T., et al. (2021). A Comparative Analysis of Web Application Development Frameworks. International Journal of SoPatel, A., & Singh, R. (2019). Performance Comparison of Laravel, Django, and CodeIgniter Frameworks. Journal of Web Application Development, 14(3), 78-94.

DOI: 10.48175/IJARSCT-12333

