ABSTRACT

Fixed assets are an essential part of an institution or organization's operational activities, thus requiring systematic and accurate management. This Final Project resulted in the development of an asset management application that records acquisition data and automatically calculates asset depreciation using the straight-line method. The application is web-based, built using the Laravel framework, and supported by MySQL as the database management system. Users can input asset acquisition data such as acquisition date, acquisition cost, category, and useful life. Based on this data, the system will automatically calculate the depreciation value for each period and display a depreciation calculation table throughout the asset's useful life. In addition, the system also provides features for asset history and periodic book value recap to support managerial decision-making. In this final project, the system was developed using the Waterfall methodology, which includes the stages of requirements analysis, system design, implementation, and testing. The testing process adopted the black box method to ensure that each feature functions as expected. The outcome of this project is an application that simplifies the process of asset recording and depreciation, while reducing the risk of errors from manual calculations.

Keywords: *fixed assets, Asset management, Asset depreciation, Straight-line method, Web application*