

ABSTRACT

Center of Excellence Smart Electric Vehicle is an excellence center at Telkom University focusing on the ecosystem of battery-based electric vehicles, with primary activities encompassing research and community service. The operational funds for each activity of the Center of Excellence Smart Electric Vehicle primarily come from grants, which require accurate financial accountability to the grant providers. However, the current management of cash inflows and outflows faces challenges in achieving accurate recording and collecting transaction evidence, especially when multiple projects run concurrently. This final project proposes the development of a web-based application for recording cash inflows and outflows, capable of generating general journals, ledgers, and cash flow statements. This application is designed to assist the finance department in systematically recording transactions and enable Project Owners and the Center of Excellence Smart Electric Vehicle Head to monitor project financial progress in real-time. The application development employs the Systems Development Life Cycle (SDLC) with the Waterfall approach, encompassing requirement analysis, system design, implementation, and testing phases. The technologies utilized include the PHP programming language with the Laravel framework and MySQL database, with testing conducted using manual methods and black box testing.

Keywords: Web Application, Cash In, Cash Out, PHP, MySQL