

ABSTRACT

Yayasan Pendidikan Telkom (YPT) is a foundation that adopts the concept of One Pipe Education System (OPES) and is spread across all regions of Indonesia. This was established through the merger of two education foundations initiated by PT Telekomunikasi Indonesia Tbk (PT Telkom): Yayasan Sandhykara Telkom (YSPT) and Yayasan Pendidikan Telkom (YPT) in 2015. Yayasan Pendidikan Telkom requires the development of a new application called SIMASET to replace the old application, as the generated reports did not meet user needs and lacked integration with the SIMLOG application. The functionalities of SIMASET include presenting reports on land, buildings, insurance, and property tax (PBB); handling data exchange between SIMASET and SIMLOG; as well as managing users who utilize the SIMASET application. The SIMASET application is built using the PHP programming language and the CodeIgniter 4 Framework, with Visual Studio Code serving as the code editor. Black Box Testing is employed for application testing, while Postman is used for testing the RESTful API. The chosen methodology is the Software Development Life Cycle (SDLC) with a prototype method. The design process utilizes the Unified Modeling Language (UML) for system modeling, Entity Relationship Diagram (ERD) for database schema design, and My Structured Query Language (MySQL) for database management.

Keywords: Fixed Asset, Management Information System, Asset Report, RESTful API