

ABSTRACT

Sawo Bringin Village is a rural area located in Bringin Village and Sambikerep Sub-district, Surabaya City. Administrative activities in this village still use conservative methods, where people need to come directly to the village hall or to the residence of village officials. On the side of village officials, they still use books as a reference to record all village administrative matters. Currently in the city of Surabaya, there is a website that can help the community in administrative matters, namely Klampid New Generation. On this website, residents can take care of various civil registration letters independently, but in its application there is still a requirement to enter a village certificate. Therefore, it is necessary to have a system that can help people to apply for village certificates independently without the need to meet directly with local village officials. The purpose of this research is to make it easier for residents to take care of village certificates without the need to meet with village officials. In this development will get the output of a program that can be used on multiplatform with a web-based application. In developing this website, we will use the waterfall development methodology while making the Unified Modeling Language (UML) system design using the Iconix Process method. This web will use Laravel and Splade framework technology, which is a package to facilitate the creation of a Single Page Application (SPA). The use of Splade is proven to be able to improve in terms of performance with a score of 97 and 100 for accessibility, this score is obtained by testing the SIMPELAE website on the PageSpeed Insights platform. In addition, this development will use Progressive Web App (PWA) so that citizens do not need to use a laptop to access it. The testing method that will be used in this development is Black Box Testing and Usability Testing, in which the testing respondents will be village officials and villagers concerned. In the black box testing phase, no problems occurred with the system, while the usability testing scored 86.4 with category A or very good.

Keywords: Village Administration, Laravel, Single Page Application (SPA), Progressive Web App (PWA), Waterfall.