

ABSTRACT

PT Indosat TBK is one of the telecommunications service providers in Indonesia that continues to innovate in improving internet quality, one of which is through the development of Base Transceiver Stations (BTS) and outlets. Previously, PT Indosat TBK Region Semarang had an application for retrieving information about sites or outlets. However, the Navigate module in this application still had feature limitations, making it difficult for users to find specific information about a site or outlet among the many sites and outlets spread across the Semarang Region. To address this issue, further development was carried out on the previous application by adding new features. The result of this development is an application called Canvas, which consists of three modules Dashboard, Navigate, and Neption. This study focuses on the development of the Navigate module, which is designed to facilitate users in locating and determining the operational status of sites and outlets in PT Indosat TBK Region Semarang. The development of the Navigate module was carried out using the Agile Scrum method, following the stages of product backlog, sprint planning, sprint backlog, daily scrum, sprint review, and sprint retrospective. This module was developed using the Kotlin programming language based on the Android Studio platform. The main feature of the Navigate module includes a map display, allowing users to view site and outlet locations based on predefined access levels. Testing was conducted using the black-box testing method, where all 37 test scenarios were accepted. These results indicate that the application functions according to the specified requirements and can assist users in locating and determining the operational status of sites and outlets in PT Indosat TBK Region Semarang.

Keywords: Agile Scrum, Android, Black-Box Testing, Canvas, Navigate.