

## ABSTRACT

# DESIGN OF POPULATION DATA COLLECTION APPLICATION IN SOKAWERA VILLAGE BASED ANDROID MOBILE USING EXTREME PROGRAMMING METHOD

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*Population data collection is an activity of recording population data carried out by data collection officers under the supervision of the village head. The census officer has the task of collecting and processing population data. Population census officers experienced difficulties when processing population data and searching for population data. Because population data collection still uses the conventional method of recording population data on paper. When the data collection officer wanted to process population data, the officer experienced difficulties in finding data. With the development and advancement of information technology, it has a positive impact, namely helping in social life. This study aims to solve problems with data collection officers, namely searching for and processing population data using applications designed based on Android. Applications designed with the Extreme Programming method. In this study there is an application using the Dart programming language with the Flutter Framework. The database used is MySQL implemented as RestAPI. Black box testing is used to test applications that aim to determine the successful functioning of the application. The application was tested using the blackbox testing method which was calculated using descriptive analysis techniques and obtained a success value of 98.70%. The results obtained from this study are an application that solves the problem of the difficulty of processing data and searching for data in Sokawera village.*

**Keywords:** *Extreme Programming, Population Data Collection, Android, Mobile*