

## **ABSTRACT**

### ***DEVELOPMENT OF MOBILE ANDROID APPLICATION WITH SAP BUSINESS ONE USING SCRUM METHOD***

by

**LEONARDO**

**1202154152**

*SAP Business One is one of the most used Enterprise Resource Planning (ERP) system for small and medium enterprise (SMEs). However, SAP Business One does not have complete features according the company needs. So, additional application is needed to cover the missing features. This application will be integrated to SAP Business One using SAP Business One SDK. The integration will be tried on the Stock Opname process. Development of the system in question is development of additional Android mobile application. This development will use agile methodology with scrum as a framework to fasten the development time and adaptive to change during development process. This application intended for staff workers who will carry out Stock Opname process directly in the warehouse. On the Android mobile application, workers can scan barcode items that will later be forwarded to the SAP Business One database. Android mobile application will also still be used even if it has no signal. By using Solution Disconnected Scenario, items that have been scanned when there are no signals will be stored in the temporary database using SQLite. When Android mobile application has received a signal again, the data will be forwarded to the SAP Business One database. With the development of additional systems that are integrated with existing systems for Stock Opname process, company can do Stock Opname more easily and all existing systems remain integrated.*

*Keyword: SAP Business One, SAP Business One SDK, SMEs, Scrum, Stock Opname, Solution Disconnected Scenario, SQLite, Android.*