

## **ABSTRACT**

### **DESIGN OF APPLICATION USER MODULE BLOOD DONATION BASED MOBILE APPICATION USING SCRUM METHOD ON STARTUP**

#### **E-VAMPIRE**

**By**

**KEVIN DION**

**NIM: 1106130145**

*National health development is part of national development in order to realize the vision and mission of the President and implementation of Nawa Cita the fifth is to improve the quality of human life in Indonesia one of them about the availability of blood (“Masyarakat Hidup Sehat Indonesia Kuat”, 2016). The availability of blood for donors according to the Ministry of Health of the Republic of Indonesia is ideally 2 % of the total population adjusted to international health standards (WHO). So, if the population in Indonesia amounted to 258.705.00 people, then ideally needed as many blood 5.174.100 blood bags. However, in the year 2016, the amount of blood collected from donors as much as 4.600.00 bags of blood so there is a lack of blood needs of 574.100 blood bags. From the results of survey, we have done, there are several reasons people are afraid or do not want to do blood donors such as fear of injection, fear of weakness after donor, trauma and fear of fat that we can take the conclusion that the main cause of the people doesn't want to donate their blood is the lack of public education about blood donation which resulted in a lack of people awareness. Appears an idea to improve people education by creating an application called E-Vampire. To support the improvement of education on blood donation, one of the E-Vampire applications will be launched based on mobile applications that can be installed on android-based smartphones. E-Vampire mobile application design will use one of life cycle development software agile that is scrum. Scrum is one of the variants of iterative and incremental agile methods. The development of E-Vampire applications will be brought to the next level in the business world into a start-up company. The E-Vampire Start-up adopts one of Lean Canvas's business models that is useful for designing the business requirements required by E-Vampire start-up for the next few years. It can be concluded that the E-Vampire mobile app is designed to increase public awareness of the importance of blood donation.*

**Keywords: Agile, Scrum, Android, Blood Donation.**