ABSTRACT

Alumni play an important role in improving the quality of education, both directly and indirectly, by providing feedback, supporting school activities, and promoting the school through their achievements. To maintain good relations with alumni and involve them actively, educational institutions need to implement effective alumni management. At SMA Telkom Bandung, alumni data management is still done manually. In addition, SMA Telkom Bandung also still has difficulties in interacting with alumni. This research aims to design a mobile-based alumni management system application that can facilitate data collection and improve the efficiency of communication and interaction. This application was developed using the Extreme Programming (XP) method, which allows iterative and adaptive development to ensure quality and functionality in accordance with user needs. Application testing is conducted through User Acceptance Testing (UAT) to ensure that the application meets the expectations and needs of end users. The test results show that the developed alumni management system is in accordance with user expectations. The implementation of this system is expected to make a significant contribution in supporting alumni management activities in schools, including facilitating access to information for alumni. This research also confirms the importance of the XP approach in developing software that is effective against user needs..

*Keywords— **extreme programming, mobile, alumni management system, user acceptance test***