# **ABSTRAK**

Hermawan Prasetyo, 2021, **APLIKASI MANAJEMEN PENDAKIAN GUNUNG PANDERMAN-BUTHAK BERBASIS ANDROID MENGGUNAKAN METODE SCRUM**, Tugas Akhir, Program Studi Teknik Informatika (S1), STIKI – Malang, Pembimbing: Nira Radita, S. Pd., M. Pd, Co. Pembimbing: Arif Tirtana, S. Kom., M. Kom

**Kata Kunci**: Pendakian, Gunung Panderman-Buthak, Android, Metode Scrum, QR Code

Pos Pendakian Gunung Panderman-Buthak merupakan pos pendakian yang mengelola dua jalur pendakian sekaligus, yaitu Gunung Panderman dan Gunung Buthak. Jalur pendakian tersebut selalu menarik minat para pendaki, dimana terlihat dari rata-rata pendaki yang melakukan pendakian mencapai 1.200 orang per bulan. Pos pendakian Gunung Panderman-Buthak dikelola oleh msyarakat sekitar, sehingga untuk memperoleh informasi pendakian harus langsung menuju kesana. Selain itu, terdapat beberapa masalah seperti pendaki yang mendaki melalui jalur illegal, memetik bunga edelweiss, maupun pendaki yang tersesat. Oleh karena itu, peneliti melakukan penelitian berupa membangun Aplikasi Manajemen Pendakian Gunung Panderman-Buthak Berbasis Android Menggunakan Metode Scrum sehingga dapat membantu pihak pengelola pendakian maupun pendaki. Penggunaan metode scrum juga bertujuan untuk menghasilkan aplikasi yang sesuai dengan kebutuhan karena metode scrum merupakan metode berkolaborasi antara peneliti dengan pihak pengelola pendakian. Dalam penelitian ini, peneliti menggunakan pengujian sistem Blackbox Testing, dimana sistem ini akan diuji secara fungsionalitas dan sesuai dengan kebutuhan. Dengan aplikasi ini, untuk proses *check in* dan *check out* pendakian cukup menggunakan QRCode pendaki. Berdasarkan hasil penelitian, peneliti menyimpulkan bahwa aplikasi yang telah dibangun sesuai dengan kebutuhan pihak pengelola pendakian, dan dapat membantu pendaki dalam pendakian.

# **ABSTRACT**

Hermawan Prasetyo, 2021, **MOUNT PANDERMAN-BUTHAK MANAGEMENT APPLICATION BASED ON ANDROID USING SCRUM METHOD**, Final Project, Informatics Engineering Study Program (S1). STIKI - Malang, Supervisor: Nira Radita, S. Pd., M. Pd, Co. Supervisor: Arif Tirtana, S. Kom., M. Kom

Keywords: Climbing Panderman-Buthak Mountain Android Scrum Method QR Code

Mount Panderman-Buthak Climbing Post is a climbing post that manages two climbing routes at once, namely Mount Panderman and Mount Buthak. The hiking trail always attracts the interest of climbers, which can be seen from the average climber who climbs up to 1,200 people per month. The Mount Panderman-Buthak climbing post is managed by the surrounding community, so to obtain climbing information, you must go directly there. In addition, there are several problems such as climbers climbing through illegal routes, picking edelweiss flowers, and climbers who get lost. Therefore, researchers conducted research in the form of building an Android-Based Mount Panderman-Buthak Climbing Management Application using the Scrum Method so that it could help climb managers and climbers. The use of the scrum method also aims to produce applications that meet the needs because the scrum method is a collaborative method between researchers and the climbing manager. In this study, researchers used the Blackbox Testing system testing, where this system will be tested functionally and according to needs. With this application, for the check-in and check-out process, it is enough to use the climber's QRCode. Based on the results of the study, the researchers concluded that the application that had been built was in accordance with the needs of the climbing manager, and could help climbers in climbing.