

MEIDIANSYAH SHOFIAN NDARU, 21.240.0122

SISTEM BOOKING ONLINE WISATA PENDAKIAN BERBASIS WEBSITE
STUDI KASUS PENDAKIAN GUNUNG RAUNG 3332 MDPL, Dibawah
bimbingan Moses Aidjilli, M.Kom dan Victorianus Aries S., S.E., M.Si

229 + xix halaman / 140 gambar / 27 tabel / 4 lampiran / 30 daftar pustaka

ABSTRAK

Pendakian gunung merupakan kegiatan yang membutuhkan manajemen data dan administrasi yang tertata, terutama dalam proses pendaftaran, penjadwalan, hingga pelaporan. Penelitian ini bertujuan untuk merancang dan membangun sistem booking online pendakian Gunung Raung guna mempermudah proses administrasi dan meningkatkan efisiensi layanan kepada pendaki. Sistem ini dibangun menggunakan framework CodeIgniter 4 dengan arsitektur Model-View-Controller (MVC) dan database MySQL serta dilengkapi dengan teknologi pendukung seperti payment gateway menggunakan midtrans. Pengembangan sistem dilakukan menggunakan metode Waterfall berdasarkan pendekatan dari Ian Sommerville, yang mencakup tahapan: requirement definition, system and software design, implementation and unit testing, integration and system testing, serta operation and maintenance. Untuk pengujian sistem menggunakan metode whitebox, blackbox dan user acceptance testing (UAT). Hasil pengujian menunjukkan bahwa sistem berjalan dengan stabil dan disetujui pihak trip organizer dan pengelola. Hasil kuisioner mencatat tingkat kepuasan pendaki sebesar 93,5 % dengan mayoritas responden menilai sistem mudah digunakan dan meningkatkan efisiensi proses administrasi pendakian. Secara keseluruhan, sistem ini mampu mengatasi permasalahan sebelumnya dan meningkatkan kualitas pelayanan bagi para pendaki yang akan melakukan pendakian ke Gunung Raung.

Kata Kunci: Sistem Informasi, Booking Online, Pendakian Gunung, CodeIgniter 4, Waterfall.

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ABSTRACT

Mountain climbing is an activity that requires organized data management and administration, especially in the registration, scheduling, and reporting processes. This study aims to design and build an online booking system for climbing Mount Raung to simplify the administration process and improve service efficiency for climbers. This system was built using the CodeIgniter 4 framework with a Model-View-Controller (MVC) architecture and a MySQL database and is equipped with supporting technologies such as a payment gateway using midtrans. System development was carried out using the Waterfall method based on the approach of Ian Sommerville, which includes the following stages: requirement definition, system and software design, implementation and unit testing, integration and system testing, and operation and maintenance. For system testing, whitebox, blackbox, and user acceptance testing (UAT) methods were used. The test results showed that the system ran stably and was approved by the trip organizer and management. The questionnaire results recorded a climber satisfaction level of 93.5% with the majority of respondents assessing the system as easy to use and improving administration efficiency. Overall, this system is able to overcome previous problems and improve the quality of service for climbers who will climb Mount Raung.

Keywords: *Information System, Online Booking, Mountain Climbing, CodeIgniter 4, Waterfall.*