DESIGNING A WEB-BASED INFORMATION SYSTEM FOR OUTDOOR EQUIPMENT RENTAL

VICKY APRIYANA FIRDAUS
Informatics Department, Faculty Of Science and Technology
University of Technology Yogyakarta
North Ringroad St., Jombor, Sleman Yogyakarta
E-mail: vq.apriyana07@gmail.com

ABSTRACT

Currently, outdoor activities such as mountain climbing, rock climbing, and other natural sports are popular with various groups because apart from the beauty and fresh air, nature has its uniqueness and meaning. Outdoor activities have various natural conditions, so special equipment and tools are needed for their safety and smoothness. However, not everyone who does outdoor activities has complete equipment, so many choose to rent this equipment. Merapi Adventure is one of the outdoor equipment rental service providers in Yogyakarta. In carrying out its business activities, Merapi Adventure still uses a conventional system. Therefore, all leasing and reporting transactions are recorded manually, making it less efficient. In addition, prospective tenants also have difficulty knowing information and a list of available tools, so they must come directly to the Merapi Adventure shops. In solving the above problems, it was decided to create an information system for leasing outdoor equipment based on a single-page application website. The construction of this system refers to the SDLC process model and uses UML tools. The programming language used for the backend is the PHP framework Laravel, and the frontend uses Vue.Js and uses the MySQL DBMS. With the construction of this system, it is hoped that it can make it easier for customers to get information and order tools online without having to come directly to the location. In addition, the system can also assist in the management of computerized rental data for outdoor equipment so that it is more efficient and can provide accurate reporting of outdoor equipment rental transactions at Merapi Adventure.

Keywords: Information Systems, Rentals, Web