

ABSTRACT

Tourism villages serve as strategic drivers of local economic growth, particularly in regions rich in natural and cultural resources, such as Serayu Larangan Village, located in Mrebet District, Purbalingga Regency, Central Java. This village holds promising tourism potential; however, its current management still faces several challenges, particularly in the ticket booking and sales recording processes, which are still conducted manually using paper-based methods. These processes are prone to human error, inefficient, and carry a high risk of data loss. This study aims to design and develop a web-based tourist ticket booking application that can be utilized by both tourism managers and visitors. The system includes features such as ticket booking, transaction recording, digital ticket generation, and sales reporting. In its development, the system was designed using the Extreme Programming (XP) method. The results of the testing show that the system performed well based on Black Box Testing, achieving a 100% success rate across all test scenarios for both user and admin features. Furthermore, the study evaluated the system's user acceptance using the User Acceptance Testing (UAT) method. The results demonstrated a high level of user acceptance, with an overall average score of 87.6%, indicating that the system successfully meets user needs and expectations. In conclusion, the developed application has proven to effectively replace manual processes with digital solutions, improve the efficiency of tourism ticket management, and is ready to be implemented by tourism managers in Serayu Larangan Village.

Keywords: Serayu Larangan, Ticket Booking, Extreme Programming, Tourism, UAT