

ABSTRACT

The management of natural tourism by the Department of Culture and Tourism (DISBUDPAR) of Banyuwangi Regency is still conducted manually using paper maps and physical documents, resulting in inefficiencies in decision-making processes. This study aims to develop a web-based Geographic Information System (GIS) to map the potential of natural tourism and replace the manual process by providing a digital platform for managing tourism data. The system was developed using the Rapid Application Development (RAD) method, which allows for a fast, iterative process that adapts to user needs. The results demonstrate that the website can display tourism site information and supporting facilities interactively through a digital map, facilitating user access, evaluation, and planning based on spatial data. System validation was conducted through User Acceptance Testing (UAT) based on four ISO 25010 quality characteristics: functional suitability, performance efficiency, operability, and reliability. The average score of 82% indicates that the system is acceptable and usable. The developed website not only offers practical benefits for DISBUDPAR in managing tourism information but also reflects the application of Industrial Engineering knowledge in the field of Information Engineering.

Keywords - Tourism, Geographic Information System (GIS), Rapid Application Development (RAD), User Acceptance Testing (UAT)