

## **ABSTRACT**

*Tourism is one of the business products in the service sector and services. Indonesia is a country with a large tourism potential seen by strategic location and facilities as well as the large number of markets. It can be seen clearly that this sector have counributed for 5.25% Gross Domestic Product (GDP) in Indonesia. The tourism potential is huge in boosting the economic, social sector in Indonesia. One area of tourism that is currently experiencing progress is halal tourism. Indonesia's ability to develop halal tourism is very large in view of the majority Muslim community. However, in an effort to develop the halal tourism sector there are obstacles to the marketing process with too narrow a scope, limited access, and very little information. As a case study of the Al-Mabrur Tour and Travel agency, a halal tour service provider in the city of Solo. Therefore the Management Information System is designed to help the halal tourism business process. Designing an online website-based information system using the Waterfall diagram method. Starting from the process of planning, needs analysis, description of Usecase Diagrams, Sequence Diagrams, Activity Diagrams, coding processes to maintenance. The system design is mapped based on Real Value Added (RVA), Benfit Value Added (BVA), and Non Value Added (NVA) and calculates the cycle time. System Usability Scale (SUS) is done in order to get feedback from end users as a subjective assessment. The SUS score obtained is 73.45, showing a good value and is usable to run. The level of efficiency shows the average of existing business with a value of 59.48% in each business process, for the proposed business it reaches 65.41%. This means that the proposed system is rated better than the efficiency of the company's activity cycle time.*

**Keyword:** *Information Systems, Waterfalls, Mapping Business Processes, System Usability Scale (SUS), and Efficiency*