

## **ABSTRACT**

# **WEBSITE-BASED MAPPING OF MSME MAPPING GEOGRAPHIC INFORMATION SYSTEM IN PURWOKERTO CITY**

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*Micro, Small, and Medium Enterprises (MSMEs) play an important role in supporting the regional economy. However, especially in Banyumas Regency, particularly in the Purwokerto City area, information regarding MSMEs is still non-spatial and has not been integrated geographically. This condition limits public access to information related to the locations and distribution of existing business units. A system is needed to address this issue, capable of presenting spatial data interactively to facilitate the search and management of MSME information. This study aims to develop a web-based geographic information system that can display MSME data along with the location and description of each business. The Rapid Application Development (RAD) method is used in this study for system development, which includes the stages of needs identification, system design, implementation, and testing. In the mapping aspect, the Leaflet Maps API is used to dynamically visualize MSME locations through a digital map. To ensure all features function according to specifications, testing is conducted using a black-box testing approach. The testing results show that the system is able to accurately map and present MSME data and meets user needs. It is expected that the existence of this system can become a solution for the community and related institutions to obtain MSME information more efficiently and in a structured manner in the Purwokerto City area.*

*Keywords: MSMEs, GIS, RAD, blackbox testing*