

ABSTRACT

Madiun City, located in the area of East Java Province, is a city that has a type of urban conditions with dense population and tropical geographical conditions with moderate rainfall. With this geographical type, Madiun City is classified as vulnerable to dengue infection. Madiun City is one of the areas that has experienced a rapid increase in the spread of Dengue Fever every year. Based on this phenomenon, we need an information system that can be accessed publicly by the public in anticipation that the location of the population is included in the area with a risk category of spreading Dengue Fever or not.

The aim of this study is to create a geographic information system mapping the distribution of Dengue Fever disease areas. This system development model uses the concept of spatial data model based on Google Maps Application Programming Interface (API). With the creation of this system, it can become a means of information to the public in anticipation that the location of the population concerned is in the category of risk of spreading certain Dengue Fever diseases.

Keywords: Geographical Information System, the spread of Dengue, Madiun City