THE DEVELOPMENT OF GEOGRAPHIC
INFORMATION SYSTEM BASED ON ANDROID
MOBILE- APPLICATION FOR MAPPING THE
SPREAD OF COW DISEASE (CASE STUDY:
DEPARTMENT OF ANIMAL HUSBANDRY AND
VETERINARY IN MALANG)

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Abstract
Detection of cow disease is an important thing to increase the productivity of cow’s milk. The process of detecting cow disease would be more practical and efficient if it would be implemented into a mobile-based application using knowledge based. In the previous final project about cow disease detection, there’s a mobile-based application that used knowledge representation to optimize its application performance. But the management of the application said that it would be more optimal to detect the cow disease if there’s a features that visualize mapping of the spread of cow disease in a certain area, so the management could see the area that has the most type and spread of cow disease so that the handling of the disease could be right on target.

This final project tries to build Geographic Information System (GIS) application based on mobile android maps which is one of technology to implement the concept of Decision Support System (DSS) into a visualization form, such as map, graphic, and diagram. GIS application based on mobile android is generally used for visualizing
mapping the spread of cow disease in certain area. In addition, the application can display the spread of cow disease in two categories, based on location and based on type of illness. Search by category of illness, the user can find the most disease that attack of cow. With a search based on location, the user can find the location of the most spread of cow disease, and when the most spread of cow disease occurs.

The final result of this application is can be used by the management of department of Animal Husbandry and Animal Health to handle the cow disease in certain area properly, so that the productivity of cow’s milk in that area could be increased.

**Keyword:** GIS, Android, Google Maps, Cow Disease.