

## ABSTRACT

*Cervical cancer is a disease to watch out for. This disease is caused by Human Papilloma Virus (HPV). Cervical cancer is the fourth highest cancer with an estimated 570,000 new cases in 2018 representing 6.6% of all female cancers. High mortality rates from cervical cancer can be reduced through prevention, early diagnosis, and treatment programs. The Indonesian government has made efforts to prevent the spread of the disease. One of the efforts made by the government is the provision of facilities for early detection of cervical cancer through a Visual Inspection with Acetic Acid (VIA) test. However, the data collection of the results of early cervical cancer detection was only carried out by each medical officer in each hospital and community center.*

*To simplify and optimize the data collection, in this Final Task a website-based information system is designed and implemented. By utilizing data from image detection results through VIA tests that have been collected, a Geographic Information System (GIS) can be made to see the distribution of cervical cancer in an area.*

*Based on research that has been done, all the functionality on the website has been running as it should and has displayed data on the distribution of cervical cancer in Bandung Regency. From the server test results, Virtual Private Server (VPS) from Digitalocean has availability of 100% of 1,000-500,000 data requests, while shared hosting from Hoster Commerce has 100% availability only in the range of 1,000-250,000 data requests. Then, from the subjectivity test results obtained an average value of 4.37 from a scale of 1-5. It can be concluded that according to the questionnaire score, the system is quite good.*

**Keyword:** *Cervical Cancer, Geographic Information System, Website, VIA*