ABSTRACT

 Increased cases of HIV / AIDS in Indonesia have become cases that have never escaped from the city. Attention to the increasing mortality rate makes people worried about the spread of HIV / AIDS. HIV / AIDS can only be transmitted through sexual contact from an infected person, blood transfusions contaminated with HIV / AIDS, and from HIV-infected women to their children during pregnancy, childbirth and breastfeeding. In Indonesia, the number of HIV / AIDS cases makes the relevant agencies must act quickly and accurately. HIV / AIDS counseling and testing can be done in province in Indonesia based province with the highest patients. In addition, will be integrated by the number of clusters of people with HIV / AIDS using the K-Means algorithm which will help related parties take action against HIV / AIDS.

 In this study, creating a web-based application. The application is created using PHP as a programming language, MySql as data storage space and CodeIgneter3 as a framework of this application. Expected to be expected in making the application. This application will process data using the K-Means algorithm. Furthermore, this web-based application will be integrated by grouping the number of people with HIV / AIDS using a K-Mean algorithm that will help relevant parties to take action against HIV / AIDS in Indonesia.

Keywords: clustering, HIV/AIDS, *K-MEANS* , *data mining*