ABSTRACT

During this pandemic, patients often face problems such as crowds and queues at the hospital which should be avoided because it causes the Covid-19 virus to spread more quickly to humans and the ineffectiveness of time spent queuing at the hospital which should be done for other activities. The next problem is to consult a doctor who is required to carry out medical examinations such as to determine the condition of the patient's body. This is worried by the community because people must avoid mobility in a place that may have a place such as a hospital. From these problems, we need an application that makes it easier for patients to consult with doctors supported by patient examination data without having to go to the hospital.

In this final project, an Adadokter application is designed that focuses on online doctor consultation and is integrated into the Smart Health Monitoring tool assisted by AR features to display data to doctors. This application is divided into two users; where patients who will do online consultations are supported by medical checkup results. Then on the application side, the doctor will provide a diagnosis of the disease to the patient and prescribe medicine according to the illness.

The output of the Adadokter application is that patients can do online consultations with doctors. The features that help patients or doctors to conduct online consultations are monitoring data that is integrated with Smart Health Monitoring and AR as a feature to display patient data to doctors. From the results of the MOS aspect on testing the need for AR features, it gets a value of 4.1 for the statement "open and accept the latest technology such as the presence of AR in the doctor application". Furthermore, in testing the feasibility of the application for doctors, a score of 3.92 is obtained for the statement "The Doctor's Application is easy to understand and recognize", the patient gets a value of 4.60 for the statement "The Adadokter Application is Eligible to support online consultations with doctors". AR can scan at an optimal angle of 0° with a distance 19 cm, and the optimal AR scanning distance is 7 cm to 23 cm indoors and 27 cm outdoors. Minimum Android Operating System The application used is Nougat 7.1 API 25.

Keywords*: *Smart Health Monitoring, Medical Check Up, MOS, AR, Operating System