

## ABSTRACT

Health is a matter that is so important for humans. It's just a lot of diseases that ultimately diagnosed late so it reaches the chronic stage which made it difficult to handle, but every disease before it reaches the chronic stage / high stage generally show symptoms of the disease that has been suffered by the patient but is still in the early light, for example, some early symptoms of the disease diabetes mellitus (DM) type 2. Based on the above problems, the authors build a simple application of an expert system that aims to diagnose the risk of diabetes mellitus using Certainty Factor (CF) and to make it easy for lay people in the prevention of diabetes mellitus accompanied with simple explanations.

The system is applied to a mobile device Android smartphone. Conclusion of making this application that one can diagnose type 2 DM to avoid disease by a factor of risk experienced and easily understood by the general public.

**Keywords:** Expert System, Diabetes Mellitus Type, Certainty Factor.

