

## **ABSTRACT**

*Attention-Deficit / Hyperactivity Disorder (ADHD) is a neurodevelopmental disorder that affects behavior and generally affects children. Usually parents tend to ignore the symptoms of ADHD that are shown by their children. Parents consider the behavior of children who have difficulty concentrating, behave impulsively, or can't stay still as normal behavior in childhood. Parents will only realize after the symptoms shown get worse over time. This is one of the causes of delays in the diagnosis and treatment of ADHD.*

*Researchers have built a web-based behavioral disorder test application that can be accessed via the internet. Thus, parents can easily access it and use it as a screening tool to identify ADHD in their child. In the application that was built, the identification of ADHD is done by implementing a fuzzy algorithm in it. The identification of ADHD with this fuzzy algorithm is carried out based on the symptoms experienced by the child.*

*In this research, system testing has been carried out. Based on the results of alpha testing, it was obtained at 100% which means the application is running well according to its function. Then the application has successfully identified ADHD using a fuzzy algorithm and has been validated by a pediatrician, obtaining an accuracy of 100%. While the results of beta testing showed 52% of respondents chose the answer Agree from a total of 50 respondents, which means that the overall nuisance test web application built is necessary and easy to use.*

**Keywords:** *A behavioral Disorder Test, ADHD, Children, Fuzzy Algorithm.*