

## ABSTRACT

In technology, there are two terms namely programming and programmer. Coding activities is believed to be able to train children's ability to train logic and concepts of thinking, solve problems systematically, and make children more fluent in using technology. However, the obstacle is how to attract children to start learning programming early. In the final project entitled "Nuby: Android-based Ruby for Elementary School" a mobile-based application was created to help children learn the Ruby programming language. In this application, learning will begin in stages, starting from the basic level, continued with an intermediate level, and ending with an advanced level. In this application there are 3 classes, each class has a theory, practice, and exam. So we can ensure that children will truly understand the theory. In this application there is also a playground for children who want to try running the Ruby program code. After completing the entire class, the children will be given an award in the form of a graduation certificate. With the test results getting a percentage of 89,6% of users strongly agree that the Nuby application is suitable for elementary school student from grade 4 to grade 6.

**Keywords:** programming, coding, Ruby, Android, mobile