

ABSTRACT

Traditional saving methods present several limitations, one of which is the inability of users to accurately monitor the amount of money they have saved. To address this issue, a smart piggy bank application for paper currency was developed. This tool is designed to provide convenience and security in the saving process, allowing users to avoid concerns about the amount saved, the authenticity of the money, or the durability of the piggy bank itself.

The smart piggy bank allows real-time monitoring of the saved amount through a mobile application, enabling users to easily view their balance and deposit history. The application is developed using Android Studio with JavaScript programming language and the React Native framework, and it features an intuitive dashboard interface.

The system operates by receiving input from a NodeMCU device embedded in the smart piggy bank. The data is then transmitted via an internet connection and processed using the Firebase cloud service, which manages and stores information related to monetary value and currency authenticity. The processed data is displayed through the mobile application, allowing users to efficiently track their savings and transaction history by date.

Kata Kunci: *Mobile Application React Native, Javascript, Android Studio, Firebase,.*