

## **ABSTRACT**

*In today's digital era, mobile apps have become an important part of everyday life. Therefore, it is important to ensure that these applications not only function properly technically, but also provide an optimal user experience. To achieve this goal, Application Performance Monitoring (APM) has become an important approach.*

*This study aims to propose and develop a performance and quality monitoring scheme for mobile applications based on Synthetic APM. Synthetic APM is an approach where simulation scenarios created by developers can be used to test application performance and quality under various conditions. This scheme includes the creation of simulation scenarios that reflect real user interactions with applications, the execution of these simulations in a test environment, and the acquisition of data regarding application performance and response.*

*The results of this research are expected to provide better insight into the performance and quality of mobile applications, as well as provide guidance for developers in improving user experience through a better understanding of how applications function in different scenarios. With the Synthetic APM schema in place, developers are able to identify potential issues.*

**Keywords:** *Mobile application, Application performance monitoring, Application quality, Synthetic APM.*