

## **Abstract**

For a university, the use of web information systems is indispensable. Like iGracias, which is used by the entire academic community of Telkom University to store various information and user activities in the university environment. Therefore, it is necessary to improve the structure to maintain the quality of iGracias. One of the techniques that can be used is web usage mining. This study uses the FIN algorithm method which is used to mine frequent access patterns and uses iGracias data, where the iGracias users used are student data. This method has the advantage of being able to search for patterns on user access trends and also with the FIN algorithm it can improve on lower memory and faster execution performance. From the implementation of this method in order to get iGracias user access patterns that match the user id of the student user group. The pattern is recommended to display frequent itemset based on the user activity history.

**Keywords:** FIN algorithm, *web usage mining, mining frequent access pattern*