ABSTRACT

Technology has developed very rapidly in recent years, this has led to an increase in information and communication systems in various fields, ranging from data access, actual information, advertising, communication, and education. Universities definitely need technological advances in activities to improve the quality of information services in presenting information and communication widely. One of them is the use of social networks for the benefit of alumni data collection media.

To overcome this, the Fateka application is here to provide information and media interaction to connect the academic community with all Telkom University Computer Engineering alumni. Fateka as an application website is supported by its main features such as alumni data, career vacancies, interaction media, activities, news, articles with a user-friendly appearance. The Fateka application is built on the website platform. With the presence of the Fateka application, it is hoped that it will facilitate user access, a backend application is needed that will provide and process various data that will occur on the website-based Fateka platform.

On the Fateka application website using two testing methods namely unit testing and stress testing, the results of unit testing using the laravel framework and laravel phpunit library show that the features can run properly and based on the results of stress testing using apachebench by sending 1000 requests to the server, with the results the time required for testing is 292,423 seconds, 1000 complete requests, concurrency level 100, and the total average time required is under 5 seconds.

Keywords: Alumni, Backend, Information System, Laravel.