ABSTRACT

Advances in information technology currently have a significant influence on all sectors, including changes in the business sector. Electronic commerce or more often referred to as e-commerce is one approach to the use of information technology in business. The Ozchic store is located in the city of Solo, focusing on selling fashion needs but does not yet have e-commerce so that it does not meet the needs of users in shopping. In the development of website applications, traditional architecture has a weakness in the use of wasteful bandwidth when making requests from the web server so that the Single Page Application (SPA) architecture using ReactJs is used in developing this website with efficient data management from a fast and interactive web server. SPA uses AJAX (Asynchronous JavaScript and XML) to dynamically update pages. On the website that has been created, the application only makes requests to the server only if the user needs it, so the application loads faster the first time than without using SPA. If the user has previously visited the website page, then the website does not need to make a request again if it has previously made a request. In developing using the ReactJs library, the source code can be separated into a component so that development becomes efficient. In testing the functionality of the Ozchic e-commerce website application using Blackbox testing, the results of testing the functionality of the application run well. Then testing using usability testing with 30 respondents who filled out 16 questionnaire questions resulted in a score of 76.91% which according to usability standards had a good grade. From the results of testing using the method on the application, it can be concluded that the Ozchic web application can run well.

Keyword : E-Commerce, Single Page Application, ReactJs