

ABSTRACT

The need for accommodation among new students and those who no longer reside in the dormitories at Telkom University has witnessed a significant surge over the past few years. Tekos, a novel startup, introduces a web application that serves as a platform for Telkom University students to seek housing options beyond the dormitories. This platform offers students the convenience and assurance of finding suitable post-dormitory accommodations. Meanwhile, UI/UX designers have meticulously crafted the visual design of the application/website to enhance user experience. However, the role of a front-end developer is pivotal in translating these designs into a tangible and accessible application website. The primary objective of this final project is to implement the Tekos website's front-end using React JS, thereby enabling users to access and navigate the developed Tekos web application. Furthermore, this project aims to enhance the performance of the Tekos application by optimizing the front-end operations through efficient utilization of React JS. It also ensures the alignment of the user interface (UI) with the envisioned design and introduces improved accessibility features to the Tekos application. The core findings of the experiment reveal that the implementation of the UI/UX design through React JS in the Tekos application has yielded favorable outcomes in terms of performance and accessibility.

Keywords: Website, Tekos, Front-end, React JS, Performance, Accessibility.