ABSTRACT

The logistics industry in Indonesia is facing significant challenges related to inefficiency and irregularity, particularly in the commodity cargo route system. This issue is further exacerbated by the high logistics costs in the country, which currently stand at 23%, higher than in other countries. To address this issue, this paper proposes the implementation and examination of several algorithms, including Greedy and A*, to optimize the cargo route system and reduce logistics costs. These algorithms are compared using various parameters, including price, distance, rating, and time. The research results indicate that the Greedy algorithm is not a reliable option for cargo route optimization. On the other hand, the A* algorithm offers a better solution compared to the Greedy algorithm, although the results it provides may not always be optimal.

Keywords: Cargo Route, Shortest Path, Greedy, Best First Search