

CargoLinker: Streamlined Container Booking App

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Abstract: *The global shipping and logistics industry play a vital role in facilitating international trade, yet small-scale exporters often face challenges in booking cargo container space efficiently. CargoLinker is a web and mobile application designed to bridge this gap, connecting exporters with available cargo container space in a streamlined manner. It is developed using an open source framework named Flutter, CargoLinker aims to enhance the efficiency and affordability of cargo shipping for small-scale exporters. The main aim of this application is to minimize the cost for small traders and maximize the profit for the company. This paper presents an overview of CargoLinker, its features, benefits, development process, challenges, and future directions.*

Keywords: Cargolinker, Flutter, logistics industry, shipping.

REFERENCES

- [1] Guo, D., Du, X., & Wu, G. (2018, June). Optimization of multi-dimensional container slot allocation based on joint dispatch and mutual renting. In 2018 Chinese Control And Decision Conference (CCDC) (pp. 6155-6160). IEEE.
- [2] Tian, J., & Chang, D. (2016, July). A research on empty container allocation problem. In 2016 International Conference on Logistics, Informatics and Service Sciences (LISS) (pp. 1-5). IEEE.
- [3] Liu, C., Jiang, Z., Liu, L., & Geng, N. (2013). Solutions for flexible container leasing contracts with options under capacity and order constraints. *International Journal of Production Economics*, 141(1), 403-413.
- [4] Feng, B., & Ye, Q. (2021). Operations management of smart logistics: A literature review and future research. *Frontiers of Engineering Management*, 8, 344-355.
- [5] Tang, Y., Chen, S., Feng, Y., & Zhu, X. (2021). Optimization of multi-period empty container repositioning and renting in CHINA RAILWAY Express based on container sharing strategy. *European Transport Research Review*, 13, 1-12.
- [6] Yui-Yip Lau, Adolf K. Y. Ng, Xiaowen Fu & Kevin X. Li (2013) Evolution and research trends of container shipping. *Maritime Policy & Management*, 40:7, 654-674
- [7] Brooks, M (2000), "Sea Change in Liner Shipping: Regulation and Managerial Decision-Making in a Global Industry", 6, 245-244
- [8] Sánchez, R. J. and D. E. Perrotti (2012), "Looking into the future: big full containerships and their arrival to South American ports", *Maritime Policy & Management*, vol. 39, No. 6.
- [9] Gómez Paz, M., A. Camarero Orive and N. González Cancelas (2015), "Use of the Delphi method to determine the constraints that affect the future size of large container ships", *Maritime Policy & Management*, vol. 42, No. 3.
- [10] Brooks, M. and others (2019), Technical Report: Regulation in the Liner Shipping Industry: Pathways to a Balance of Interests, Antwerp, Dalhousie University/Department of Transport and Regional Economics of the University of Antwerp