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CarGo: A Smart Car Rental App with Real-Time Tracking and Notifications - Powered by React Native

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Abstract: "CarGo" is a state-of-the-art car rental system developed in React Native that provides a seamless and easy-to-use experience for people looking for car rental services. This innovative app includes user registration, hassle-free booking management, real-time tracking capabilities, an integrated notification system, and much more. Through an intuitive interface, users can easily log in, browse available vehicles, view detailed vehicle information and book with preferred date, time and pickup location. A standout feature of this app is its real-time tracking integration, which allows users to monitor the location of their rental vehicle, ensuring safety and convenience throughout the rental period. "CarGo" is seamlessly compatible with Android and iOS platforms, ensuring a consistent and powerful experience for all users. We promise to redefine the car rental industry with a modern and efficient approach.

Keywords: Car rental, React Native, Tracking, Notification

REFERENCES

- [1]. bin Uzayr, S. (Ed.). (2022). Mastering React Native: A Beginner's Guide. CRC Press.
- [2]. Holmes, E., & Bray, T. (2015). Getting Started with React Native. Packt Publishing Ltd.
- [3]. Brahmbhatt, S., & Khara, S. (2015). 21st Century and Cutting Edge Technology for Front-End Web-Development (React & Angular): A Programmer Approach. of Papers Page, 119.
- [4]. Danielsson, W. (2016). React Native application development: A comparison between native Android and React Native.
- [5]. Danielsson, W. (2016). React Native application development. Linköpings universitet, Swedia, 10(4), 10.
- [6]. Tollin, G., & Marcus, L. (2023). React Native vs. Flutter: A performance comparison between cross-platform mobile application development frameworks.
- [7]. Cherbakov, L., Galambos, G., Harishankar, R., Kalyana, S., & Rackham, G. (2005). Impact of service orientation at the business level. *IBM Systems Journal*, 44(4), 653-668.
- [8]. Muñoz, P. B., & Willing, J. N. (2020, January). DORA: An Experimental Platform for Smart Cities. In Intelligent Transport Systems. From Research and Development to the Market Uptake: Third EAI International Conference, INTSYS 2019, Braga, Portugal, December 4–6, 2019 (Vol. 310, p. 292). Springer Nature.
- [9]. Nigam, V. P., Kutvonen, A., Molina, B., Muñoz, P. B., & Willing, J. N. (2020). Dora: An experimental platform for smart cities. In *Intelligent Transport Systems*. From Research and Development to the Market Uptake: Third EAI International Conference, INTSYS 2019, Braga, Portugal, December 4–6, 2019 (pp. 292-302). Springer International Publishing.
- [10]. Ambadekar, S., Hatode, P., Jain, A., Chaurasiya, D., Raut, P., & Bajpai, S. (2021, May). Mark Us: A Social Experience Built Using Augmented Reality. In *Proceedings of the 4th International Conference on Advances in Science & Technology (ICAST2021)*.
- [11]. Le-Dinh, D. (2020). Multiplatform Architecture, Protocols and Technologies for Smart Systems.

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- [12]. Kamilaris, A., Gao, F., Prenafeta-Boldu, F. X., & Ali, M. I. (2016, December). Agri-IoT: A semantic framework for Internet of Things-enabled smart farming applications. In 2016 IEEE 3rd World Forum on Internet of Things (WF-IoT) (pp. 442-447). IEEE.
- [13]. Prideaux, B. (2000). The role of the transport system in destination development. Tourism management, 21(1), 53-63.
- [14]. Calza, F., Parmentola, A., & Tutore, I. (2017). Types of green innovations: Ways of implementation in a non-green industry. Sustainability, 9(8), 1301.
- [15]. Yilmaz, Y., & Bititci, U. (2006). Performance measurement in the value chain: manufacturing v. tourism. International Journal of Productivity and Performance Management, 55(5), 371-389.
- [16]. Hansson, N., & Vidhall, T. (2016). Effects on performance and usability for cross-platform application development using React Native.
- [17]. Martinez, E. R. (2018). React: Cross-platform Application Development with React Native: Build 4 Real-world Apps with React Native. Packt Publishing Ltd.
- [18]. Gill, O. (2018). Using React Native for mobile software development.
- [19]. Kumar, S., & Moore, K. B. (2002). The evolution of global positioning system (GPS) technology. Journal of science Education and Technology, 11, 59-80.
- [20]. Dommety, G., & Jain, R. (1998). Potential networking applications of global positioning systems (GPS). arXiv preprint cs/9809079.
- [21]. Mintsis, G., Basbas, S., Papaioannou, P., Taxiltaris, C., & Tziavos, I. N. (2004). Applications of GPS technology in the land transportation system. European journal of operational Research, 152(2), 399-409.
- [22]. Wang, C., & Qi, H. (2021, March). Influencing factors of acceptance and use behavior of mobile health application users: systematic review. In Healthcare (Vol. 9, No. 3, p. 357). MDPI.
- [23]. Love, C. (2018). Progressive Web Application Development by Example: Develop fast, reliable, and engaging user experiences for the web. Packt Publishing Ltd.
- [24]. Si, L., Shi, R., & Chen, B. (2011). An investigation and analysis of the application of Web 2.0 in Chinese university libraries. The electronic library, 29(5), 651-668.

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