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CITI-LINK Bus Pass System for Nashik

Pratik B. Agale¹, Prathamesh D. Bhosale², Gokul D. Gadakh³, Aditya D. Gaidhani⁴,

Prof. Rupali B. Rahinj⁵

Department of Computer Engineering^{1,2,3,4,5} Matoshri Aasarabai Polytechnic, Eklahare, Nashik, Maharashtra, India

Abstract: The CITILINK Bus Pass System is a digital solution aimed at improving public transportation for Nashik's frequent commuters, including students and employees. The system simplifies the traditional bus pass application and usage process by offering a user-friendly mobile platform where individuals can apply for passes, complete registration, and make payments. Upon successful completion, users receive a QR code, which serves as their bus pass. This QR code is scanned at bus stops for easy and efficient boarding, eliminating the need for physical tickets or manual verification. On the administrative side, the system is equipped with a CodeIgniter-based web application that allows the transit authority to manage users, track pass usage, and monitor bus stop activities in real time. The Flutter-based QR code scanner facilitates quick identification and seamless entry at bus stops, further enhancing operational efficiency. The integration of these technologies ensures smoother operations, reduced paperwork, and a more secure, automated process for both commuters and bus operators. This system modernizes the bus pass management for CITILINK, providing a more convenient, efficient, and scalable solution to meet the needs of Nashik's growing population, all while promoting a smarter public transportation network.

Keywords: Bus Pass System, QR Code, Flutter, Node js

