

Book Donation System

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Abstract: *The Book Donation System is a mobile and web application developed with Flutter and Firebase. Its goal is to connect book donors and recipients. It provides a space where individuals, students, NGOs, and schools can easily share and access books. Traditional book donation drives often face issues like poor coordination, lack of transparency, and limited interaction. This project addresses these problems with features like real-time book listings, chat communication, QR-based donation verification, and impact tracking. The application is built entirely on Firebase's free plan, making it easy to scale and deploy without costs. It includes user authentication, book management, multilingual access, voice features, eco-tracking, and a community feed for user engagement. The system supports digital literacy, environmental sustainability, and educational equality by encouraging book reuse and knowledge sharing in local communities.*

Keywords: Book Donation, Flutter, Firebase, Sustainability, Community Platform, Education Technology

