

Bikezy: The Bike Rental System

Abhijit Khedekar, Kiran Bhad, Shubham Ekhande, Abhay Ganage

Parvatibai Genba Moze Moze College of Engineering, Wagholi, Pune

Abstract: *The Bike Rental System app provides a convenient, digital platform for short-term bike rentals aimed at simplifying access to affordable transportation. Designed for use by commuters, tourists, and recreational users, the app enables users to browse, rent, unlock, and pay for bikes directly from their smartphones. Key features include real-time bike availability, GPS-based tracking, secure payment processing, and user-friendly navigation. By integrating third-party services like map and payment gateways, the app automates inventory management and enhances user experience while offering business insights through rental data analytics. This platform leverages React Native for cross-platform compatibility on iOS and Android, along with a robust backend infrastructure, to ensure performance, scalability, and security. The app supports business growth by streamlining operations, providing data-driven insights, and delivering a reliable, user-focused solution for bike rentals..*

Keywords: Shared transportation, sustainable urban mobility, active transportation, bike rental system, LOGIT model