

INNOVATIONS IN PACKAGE DELIVERY TRACKING FOR MOBILE APPLICATIONS

Archit Joshi¹, Sivaprasad Nadukuru², Shalu Jain³, Raghav Agarwal⁴ & Om Goel⁵

¹Independent Researcher, Belgaum Karnataka 590019

²Independent Researcher, Muniswara Layout, Attur, Yelahanka, Bangalore-560064

³Research Scholar, Maharaja Agrasen Himalayan Garhwal University, Pauri Garhwal, Uttarakhand

⁴Independent Researcher, Mangal Pandey Nagar, Meerut (U.P.) India 250002

⁵Independent Researcher, Abes Engineering College Ghaziabad

ABSTRACT

In recent years, innovations in package delivery tracking for mobile applications have transformed the logistics and e-commerce industries, offering customers real-time visibility and enhanced control over their deliveries. Traditional methods of tracking, often limited to periodic status updates, have given way to advanced technologies that enable real-time location tracking, push notifications, and detailed delivery schedules. Mobile applications now integrate features such as GPS tracking, automated alerts, and AI-driven predictions, which enhance user experience by providing accurate delivery timelines and dynamic routing information. These advancements not only benefit consumers but also streamline operations for businesses, improving efficiency and reducing errors.

Moreover, mobile-based tracking applications leverage big data analytics and machine learning algorithms to predict delays, optimize delivery routes, and provide proactive solutions. The use of augmented reality (AR) is emerging as a new frontier, helping users visualize package locations and delivery paths. The development of secure, user-friendly interfaces ensures that customers can track their packages with ease, while encryption and biometric authentication enhance data security. As mobile technology continues to evolve, innovations in package tracking are expected to further revolutionize last-mile logistics, improving speed, accuracy, and transparency for both companies and end-users. This paper explores the recent technological advancements in mobile package tracking applications and their significant impact on the logistics ecosystem, focusing on enhancing customer satisfaction and operational efficiency.

KEYWORDS: *Real-Time Package Tracking, Mobile Applications, GPS Tracking, AI-Driven Predictions, Big Data Analytics, Augmented Reality, Delivery Optimization, Last-Mile Logistics, Customer Satisfaction, Operational Efficiency*

Article History

Received: 11 Mar 2022 | Revised: 17 Mar 2022 | Accepted: 22 Mar 2022
