Guardian Connect: A Comprehensive Amber Alert Mobile System

Rutuja Pravin Dhatrak[1], Diksha Jagdish Sonawane[2], Kishori Bajirao Jagtap[3],
Omkar Prakash Gunjal[4], Prof. P. M. Achat[5]

[1,2,3,4,5]Department of Computer Engineering

Matoshri Aasarabai Polytechnic, Eklahare, Nashik, Maharashtra, India

Abstract*: "Guardian Connect: A Comprehensive Amber Alert Mobile System" is an innovative mobile application designed to address the inefficiencies and fragmentation in existing child recovery processes. By integrating advanced geolocation services, real-time notifications, secure data management, and proactive workflows, the app ensures seamless coordination between victims, parents, law enforcement, and the community. The system provides tailored functionalities for each user group, enabling victims to report incidents promptly, parents to proactively upload child information, and officers to manage cases efficiently with real-time visualization of incidents. An intuitive admin backend oversees the platform, ensuring data integrity and facilitating verification of reported cases. The app emphasizes privacy, security, and accessibility, featuring multi-language support, strong data encryption, and media integration to amplify community involvement. Built on robust hardware and software architecture, it leverages technologies like Firebase for real-time updates and Google Maps for precise location tracking. By fostering collaboration and enhancing the effectiveness of Amber Alerts, "Guardian Connect" aims to safeguard children and reunite families swiftly, making it a transformative tool in child protection efforts.*

Keywords: Amber Alert System, Missing Children Recovery, Real-Time Notifications, Geolocation Services.