Women Safety Cab Booking with Exact Location Alert on Mischievous Tracking

Santhiya M[1], Shruthika S[2], Shivani R[3], Sivabharathi S[4]
B Tech, Information Technology[1,2,3,4]
Anjalai Ammal Mahalingam Engineering College, Thiruvarur, India

Abstract: *This study focuses on evaluating the state of women's safety in public transportation and highlights the growing demand for a dedicated taxi service exclusively for women. Night-time travel, in particular, poses significant safety concerns, with numerous reported incidents involving cab drivers. To address this, an Android-based application has been developed to enhance security for women booking cabs during late hours. The system incorporates trajectory tracking technology to monitor deviations from the intended route and detect excessive travel time. If any unusual travel behavior is identified— such as route deviation or delayed arrival—an immediate alert, including the driver's location, is sent via SMS to nearby police authorities and the passenger's family members. This proactive approach ensures swift action can be taken to safeguard the passenger before any potential harm occurs.*

Keywords: Women Safety, Public Transportation, Night Travel, Cab Booking, Android Application, Trajectory Tracking, Route Deviation Detection, Emergency SMS Alerts, GPS Monitoring.

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