

# **ANDROID-BASED ONLINE CAR WORKSHOP APPLICATION WITH HOME SERVICE (CASE STUDY: TRI CAR WORKSHOP, KUALA KURUN REGENCY)**

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## **ABSTRACT**

*Private vehicles, such as especially cars, whose population in Indonesia has reached approximately 23,230,297 units, have become indispensable for logistics, daily commuting, and personal mobility. Each vehicle type demands specific maintenance procedures; for example, servicing an automatic-transmission car differs markedly from servicing a manual-transmission car. Breakdowns such as punctured tires, engine failure, or vehicles trapped in potholes frequently occur in route, yet many drivers lack immediate knowledge of the nearest workshop location and often must rely on asking passers-by. In addition, many owners are still unfamiliar with proper preventive maintenance. Leveraging current technological advances, this study proposes and develops an Android-based online car workshop application featuring on-demand home service, with TRI Car Workshop in Kuala Kurun Regency as the case study. The application enables drivers to request mechanical services directly to their location via a mobile interface, eliminating the need for on-site inquiries and facilitating convenient, efficient vehicle care from home. By integrating location services and real-time request handling, the system modernizes automotive maintenance, enhancing user experience and service accessibility.*

*Keywords: Online Workshop Application, Home Service, Android*