

FIXIT

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Abstract

A vehicle breakdown occurs when a vehicle's mechanical or electrical system fails, preventing it from being driven and forcing it to stop. This can be caused by a faulty battery, damaged tyres, fuel issues, overheating, and other factors. People often overlook the importance of regularly taking their vehicles to a repair shop. Also, most vehicle breakdowns occur unexpectedly, so most drivers are unsure how to react. This can result in unsafe behavior, hence secondary incidents. Therefore, if a vehicle breaks down, it is best to seek professional assistance because they have a thorough understanding of the problem and how to fix it.

The aim of the project is to analyse and identify the problems faced by vehicle drivers during a breakdown and to design, develop and evaluate an IT solution that addresses the issues identified and allows the individuals to find mechanics efficiently and provide self-repair instructions. A comprehensive review of the existing literature was conducted to identify and analyse the main challenges. Interviews and surveys were carried out to further evaluate the identified challenges. Through these facts and finding, the need for a solution to this problem was identified. Hence, a mobile application called “FixIt” has been designed and developed. Both experts and users tested and evaluated the application to ensure that it met the required quality and standard. Based on the evaluations, this application was considered successful in overcoming the challenges identified.

Keywords: Vehicle breakdown, mechanics, vehicle self-repair, challenges