# **ABSTRACT**

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In the face of increasingly rapid human movements, a car is a necessity that cannot be avoided. The car is one of the means of transportation which is also always developing following the technology of machines and computerization. This research is motived by the problem of decision makers that are still done manually and how to diagnosis the damage to vehicle by knowing the types of damage, symptoms and indications.

This research was conducted using MySql as a database. Researchers write an understanding of Case-base Reasoning and supporting tools such as HTML, CSS, and Notepad ++ for making diagnosis systems. Researchers used the SDLC model, the waterfall model as a method of system development

Data collection and user needs are done by conducting interviews with Denso Motor workshop owners and library research such as reading book, journals and websites as a reference to support this reasearch.

The design of the system created will include system architecture, use case and activity diagrams to better illustrate the program. The result obtained will be in the form of decision making symptoms of damage so that it can facilitate the mechanic in repairing.

Throught the reasearch process that has been carried out and the application development process that has been ongoing, the reasearchers concluded that by using Case-Based Reasoning can facilitate decision making symptoms of car damage at the Denso Motor workshop.

**Keywords:** Case-Based Reasoning, Diagnosis System, Car Damage