

## **ABSTRACT**

*Generally, damage caused to vehicle such as cars caused by the negligence of the owner in using and maintaining their car. However there are some cases of damage because the existing component is expired. Each car requires periodic maintenance. Generally, owner knows there are damage on their car when car not operating as usual. There are many causes and signs when cars does not operating properly. Some of them can be seen on fuel system parts, lubrication or mechanical parts.*

*In this final project author design an android-based on expert system to diagnose and solve the problem on the cars especially diesel cars. This final project used Forward Chaining method to help analyze the damage and provide solutions of the problem. This project made in android to allow users to access and resolve the problem anywhere.*

*This final project is expected to be able help the owner and diesel-fueled amateur mechanic for facing the problem in diesel cars.*

*Keywords: cars, diesel, forward chaining, mobile, expert system*