

DESIGN AND DEVELOPMENT OF WEB-BASED FLEET MAINTENANCE
MANAGEMENT SYSTEM FOR SMALL TO MEDIUM SIZE TRUCKING
COMPANY

By

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STATEMENT BY THE AUTHOR

I hereby declare that this submission is my own work and to the best of my knowledge, it contains no material previously published or written by another person, nor material which to a substantial extent has been accepted for the award of any other degree or diploma at any educational institution, except where due acknowledgement is made in the thesis.

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ABSTRACT

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This research involves a company that handle freight and based in Cilegon, Banten, Indonesia. As a freight company where trucks are their main asset, keeping the truck fleet in good condition is essential so that the company can keep taking and complete orders. To achieve that goal, the company must have an effective maintenance process so that the fleet maintenance process is not over budget. Because of that, the company need a system to help them manage the maintenance activity. This thesis focused on the design and development of the fleet maintenance management system that are customized based on existing maintenance process in the company. The objective of this system development is to provide maintenance schedule and fleet maintenance history. The development of the system is using an incremental SDLC model. The system main feature to record maintenance activity has completed.

Keywords: System Development Life Cycle, React, React JS, Redux, Web System, Web-Based Application, CMMIS.



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DEDICATION

I dedicate this thesis works for the company owner who had allowed me to use his company as my thesis use case and to my parents.



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