

Cheap Insurance Telematics Application for Insurance Premiums and Motor Fleet Management

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Abstract

There has been a high population growth in Kenya in recent years which has resulted in increase in number of vehicles to facilitate movement. However, as the vehicles increases, road accidents also increase, this is due to reckless driving, poor un-roadworthy and uninsured vehicles which continue to operate in Kenyan roads. It is a legal requirement that every vehicle and motorcycle operating in Kenyan roads be insured but this is not always the case as some of the motorists drive uninsured and uninspected vehicles. Insurance companies and NTSA are responsible for offering insurance premiums and inspecting vehicles in the country respectively. Despite being given crucial role of offering quality affordable insurance premiums to all people, our country insurance industry is facing stiff competition and unethical business practices by some insurance providers to attract more customers. This has led to insolvent of insurance companies as they cannot afford to maintain their daily operations. Apart from insurance companies being insolvent, the alarming increase in number of accidents in the country calls for an action to solve and curb this problem. Cheap insurance telematics and motor fleet management system is a web-based application that calculates insurance premiums cover based on driver geographical location attributes of vehicle's area of operation, distance vehicle has been driven per month, time of trip in a day, driver's experience and age among other attributes. This system has been developed using waterfall methodology and consists of three (3) main modules: user-customer module, administrator-insurance company module and android speedometer module to measure vehicle's speed and monitor its location This system provides solution to poor record keeping of vehicles inspection, tracking of vehicles to prevent theft and terrorism, tracking of uninsured vehicles which still operate in Kenyan roads, cheap affordable insurance premiums to all Kenyans, risk premium charges based on real risk associated with it rather than the conventional method been used today this will make insurance companies be more competitive, increase their profit, reduce road accidents and improve efficiency in motor fleet management