MobKas, Decision Tools for Purchasing Used Vehicle

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Abstract. The government tax policy about Tax Amnesty and progressive tax for vehicle owner culminating the escalation of used vehicle market. Purchasing used vehicle in Indonesia is not that simple since approximately more than 20 criteria needed to be taken as consideration. Prospective buyers confront challenging task to decide used vehicle that best suits their criteria. MobKas (stands for Mobil Bekas (used car)), web based decision tool for purchasing used vehicle was developed to overcome this problem. This application will support potential buyers to minimize the number of options that need to be considered when purchasing used vehicle based on selected criteria. MobKas application has been tested by a group of prospective buyers and 80% of them stated that this application has proven successful assisted prospective buyers when purchasing used vehicle.

1. Introduction

Cars and motorcycles are kind of land transportation that favorable assisting humans in daily activities. Land transportation control substantial aspect in the success of national development in the economic, social, cultural, political, defense and security [1],[13]. For instance, in the economics sector, transportation serves as the infrastructure to distribute people and/or goods, infrastructure spur regional economic growth, and the infrastructure that supports trade to other economic sectors [1]. Indonesia transportation contribute significantly in developing sovereign, independent, and mutual aid country as the vision of the 7th President of the Republic of Indonesia [13].

According to the data [12] on average 20% to 50% of public transportation in various regions in Indonesia is not feasible to use based on safety and comfort. In terms of amenity, most of public transport passenger are not satisfied due to the waiting time and traveling time, additionally public transport are often crowded with passengers [11]. In terms of safety, mostly public transportation is in poor condition and not feasible to accommodating passenger. In addition, the speeding driver’s habits to get more passengers are threatening the safety of passengers [11]. This directly afflicted people preferences to use private vehicles, either cars or motorcycle [14][20][9]. According to [16], transportation expert stated that public transport operating in the capital city solitary is only around 40%, the rest is private vehicles. This data sustained by Jakarta Bureau of Statistics agency (BPS) that exhibit about 70% of the capital's residents prefer to use public transport compared to private vehicles [4]. While in Surabaya (2nd biggest city in Indonesia), the ratio comparison between public transport and private vehicles passenger is 1:27. Private cars owner is around 60.48% and motorcycles around 22.35% [18].

Weakened economic conditions in Indonesia lead in increased demand for used cars [19][2]. Mobil88 used car sales in the period January to April 2015 increased by 15%, while online sales of