Estanilla, D. C. G., Khu, W. J. A., Libago Jr., N. Q., Vallejos, K. P. (2013). **Development of a Web-based Traffic Accident Management Information System.** Undergraduate Thesis (BSCS). Department of Computer Science, College of Computer Studies, Xavier University – Ateneo de Cagayan.

**ABSTRACT**

Traffic accidents need to be quickly responded by the entities necessary for the situation. On-site witnesses or informants at the scene of the accident are usually the ones calling only the entities whose hotline numbers they know of. These entities need to be able to respond fast in order to prevent traffic congestion, resolve cases of vehicle or property damage, attend to injury, or even save lives. However, without the existence of a traffic management system, the coordination of these entities is not maximized to their full extent. Due to this problem, this study aimed to design a web-based traffic accident management information system in order to help improve their coordination thus improving their response speed. To do this, the proponents first gather data from the entities involved in traffic accidents. Necessary information like their standard operating procedures, confidentiality policies, and contact details are needed. The system is then designed and built according to the requirements gathered. The system included major features like Short Message Service broadcasting and report generating. Tests were conducted on its features by a total of 14 respondents, 10 of which acted as callers and 4 as entities, and evaluated with a scoring rubric. Its evaluation was high and was fully meeting or exceeding expectations. This will hopefully improve the traffic accidents response of the entities.

**KEYWORDS:** *Traffic Accidents, Traffic Accident Management Information System, Traffic Congestion, Coordination, Response Speed, Short Message Service*