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TITLE: Development of a Computer-Based records management and monitoring system of fuel consumption and vehicle utilization for the Mariano Marcos State University motor pool.

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Abstract: This study focused on the development of a Computer-based records management and monitoring system of fuel consumption and vehicle utilization of the motor pool of Mariano Marcos State University. Development of a database system was identified to upgrade the existing manual system of the motor pool to help them in records management, monitor efficiently the utilization and fuel consumptions of vehicles, to help the advocacy of the university to conserve energy and to improve the scope of its services.

The research and development (R&D) methodology was used in this study. Significant facts and information were gathered through casual interviews and questionnaires to assess the existing manual system in the motor pool and the level of interest of the MMSU staff in using a database system in managing records and monitoring of transactions. Questionnaires were distributed to determine the effectiveness and validity of the database system that was developed.

Effectiveness of the proposed computer-based records management and monitoring system of fuel consumption and vehicle utilization was evaluated by future internal users. Validation was done by I.T. experts who are exposed to software development.

Findings obtained from the evaluation of effectiveness and validity of the proposed computer-based records management and monitoring system of fuel consumption and vehicle utilization were rated as strongly agree, which means that evaluators strongly agree in the effectiveness and validity of the proposed system, hence, can be adopted for implementation by the MMSU Motor Pool office.