



TECHNOLOGY

VROOM (Vehicle Rental Repair Operations Organization and Maintenance)

OVERVIEW

VROOM is a fleet management system that integrates vehicle tracking, rental and maintenance into a single system. Functionality can be broken down into the following sections: local user administration, vehicle management, fuel tracking, customer administration, rental assignment and maintenance. The system integrates these functions into a client program that is run on users' desktops in the motor facilities. Additionally, the system provides a Web-based vehicle reservation system for use with the rental function. The backend functionality is provided by a relational database system.

The local user administration section provides the means to control which local users have access to the application and what the user can do once logged in. For each section of the system, there is a set of privileges that may be assigned to users. Each user may be assigned any combination of privileges in any section (i.e., a user may be able to see and modify maintenance order or only read rental information and have no other access in the system).

The vehicle management section provides for the management of vehicle information. Such information includes Vehicle Identification Number, year, make, model and current status. From this section, vehicles may be added to and disposed of from the fleet.

The fuel tracking section provides for tracking fuel usage. It allows for the entering of relevant fuel data (such as date/time of the fueling, gallons used, cost, etc.)

The customer administration section provides for administering the fleet's customers. This includes entering and tracking information such as name, address, department and e-mail address. Additionally, a number of roles may be assigned to the customer.

The rental assignment section provides for the management of vehicle assignment. This section includes the functionality to track the assignment and usage of vehicles. Standard rental fields such as departure date and time, estimated return date and time, actual return date and time, vehicle type requested, driver's name and requestor's name are tracked. Using this section, fleet administrators can quickly determine the assignment status of a vehicle.

The maintenance tracking section provides for the tracking of vehicle maintenance. The parts and labor are entered using codes so that reporting may be done based on labor type and/or part type. Additionally, a work order history is maintained so that the maintenance history of a vehicle may be quickly seen.

The system provides a variety of reports to help manage the day-to-day operation of the fleet. These reports include items such as vehicle assignment, work order and vehicle mileage reports. Additionally, the system permits sending of e-mail-based maintenance reminders. A data export is also available for integration with other applications.

For more information contact the Office of Technology Commercialization at 301.405 3947 or otc@umd.edu

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