**Title:** Rent a Car Reservation and Billing System using jQuery Mobile Framework with Backbone.js and Real-time Information Processing for EcoTrans Rentals Company

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## ABSTRACT

Nowadays, there are online car reservation and billing system which give much benefit to users. A rental service is a service where customers arrive to request the hire of a rental unit. It is more convenient than carrying the cost of owning and maintaining the unit. EcoTrans Rental Company is also having a rental service which system is worked manually and individually. There are several problems that occur on the said company and also for their clients.

A web application is an application that is accessed over a network such as the Internet. Therefore, with this new method, the process will be more efficient and the safety of hiring car is secured. It's also the best way to increase the quality of management and can reduce time constraints.

The Rent a Car Reservation and Billing System for EcoTrans Rental Company will help lessen the company's problem in their daily transactions. Using this web application, the company will be able to create reservation, view reservation, monitor company sales report and update the company information. The company's client can manage their account, create reservation, view their history and view car availability. The web application will be hosted online so that it can be accessed everywhere. The web application is also responsive, which means it can be accessed in all platforms like mobiles, tablets and desktop computers.

The web application follows a software development life cycle approach that includes initiation, planning, design, development, testing, implementation, and maintenance phases. This system enables its user to perform all the operations regarding car rental with features that provides the user to make entry of user and admin registration.

**Keywords:** User Interface Design, Frameworks, Websocket, Car Rental, jQuery Mobile, JavaScript, Web Application