

ABSTRACT

QR Code for Indonesia's Shipping System

Rama Aprilliant Qinovari

In general, shipping has been part of humanity's economy since the dawn of civilization. Moving items from one place to another is a necessity regardless, whether the intention is to trade or for a gift. Entering the era of free trade, the importance of shipping became clearer. For example, the factory can be located in one continent and the seller of the product in another continent. Yet for all its significance, our country has yet to utilize its maximum capabilities to boost our Trade aspect. One of the aspects that I view can be improved is the bureaucratic process of trade customs. Our custom bureaucratic system can be quite slow in its process. My proposal is to streamline the export/ shipment process by creating a web application that contains data and information needed to pass form checking and form approval.

The proposed system is a system to create a Web-based application for shipment administration purpose. Our system is divided into two main parts, namely user and admin. The system is divided to reduce the workload for the server and to have the port officials a system that they can be involved with. The user side will refer to the system that the user (shipment sender) can interact and use. The other part of the system will consist of administration of the port or port officials. They will set the price of the trade based on regulation made by the government and creates the bill of lading for each shipment. This will allow the user a simple process to submit their shipment and allow the admin to monitor the process.

The System is developed based on the web with JavaScript, NodeJs and PostgreSQL as the database with an approach to designing an architecture with integration between modules which communicate with each other. The use of our Shipping system web application is expected to improve the process where time is more effectively used to create a shipment; as well as being easier to monitor and control information and ensuring the accuracy of the items to be shipped.

Keyword : QR code, Web application, Web software, software development