

FIRMAN FERDIANSYAH, 21.230.0055

SISTEM INFORMASI PEMBERIAN POINT PELANGGARAN LALU LINTAS BERBASIS WEB DI POLRES PEKALONGAN, dibawah bimbingan

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ABSTRAK

Banyaknya pelanggar lalu lintas yang terus melakukan pelanggaran tanpa rasa jera terkena tilang, menyebabkan usulan tentang pemberian point pelanggaran dan akumulasi point. Dari kasus tersebut muncul permasalahan terkait belum adanya sistem yang terintegrasi terkait pencatatan point pelanggaran lalu lintas di Polres Pekalongan sesuai dengan peraturan kepolisian (PERPOL) Negara Indonesia Nomor 5 Tahun 2021 tentang Penerbitan dan Penandaan Surat ijin Mengemudi. Dari permasalahan tersebut, maka dibuat Sistem Informasi Pemberian Point Pelanggaran Lalu Lintas Berbasis Web di Polres Kabupaten Pekalongan yang dapat melakukan pencatatan dan akumulasi point pelanggaran, serta dapat diakses secara publik oleh pengendara untuk memantau riwayat pemberian point pelanggaran yang dilakukan. Sistem dibangun dengan menggunakan metode Waterfall dengan tahapan Analisis Kebutuhan, Desain Sistem, Implementasi, Pengujian, dan Pemeliharaan atau Penyerahan. Alur sistem dirancang dengan menggunakan usecase diagram, activity diagram, sequence diagram, dan class diagram, serta Lembar Kerja Tampilan (LKT) untuk desain tampilan sistem. Sistem dibangun menggunakan bahasa pemrograman PHP dan framework CodeIgniter, serta database MySQL. Hasil pengujian menggunakan metode Whitebox, Blackbox, dan User Acceptance Test (UAT).

Kata Kunci : Sistem, Point, Pelanggaran, Lalu Lintas, Web.

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WEB-BASED TRAFFIC VIOLATION POINT INFORMATION SYSTEM

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ABSTRACT

The high number of traffic violators who continue to commit offenses without deterrence despite receiving fines has led to the proposal of a violation points system and points accumulation. This issue highlights the absence of an integrated system for recording traffic violation points at the Pekalongan Police Department in accordance with Indonesian Police Regulation (PERPOL) No. 5 of 2021 concerning the Issuance and Marking of Driving Licenses. To address this issue, a Web-Based Traffic Violation Points Information System was developed for the Pekalongan Police Department. This system allows for recording and accumulating violation points and provides public access for drivers to monitor their violation points history. The system was built using the Waterfall method, which includes the stages of Requirements Analysis, System Design, Implementation, Testing, and Maintenance or Handover. The system flow was designed using use case diagrams, activity diagrams, sequence diagrams, class diagrams, and Interface Design Sheets (IDS) for the system's visual layout. The system was developed using the PHP programming language, the CodeIgniter framework, and the MySQL database. Testing was conducted using Whitebox, Blackbox, and User Acceptance Test (UAT) methods.

Keywords: System, Points, Violations, Traffic, Web.