# ABSTRAK


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| **Judul** | **:** | **Perancangan Sistem Informasi Inventaris Sarana dan Prasarana Sekolah Berbasis Web di SDN 04 Koto Tuo Sulit Air Menggunakan Bahasa Pemrograman PHP dan Database MySQL** |
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| **Program Studi** | **:** | **Sistem Informasi** |
| **Jenjang Pendidikan** | **:** | **Strata-1 (S1)** |
| **Pembimbing** | **:** | **1. Dr. Rini Sovia, S.Kom., M.Kom**<br>**2. Desi Afrianti, S.S., M.Hum** |



Perkembangan teknologi informasi berperan penting dalam pengelolaan data inventaris sekolah, termasuk di SDN 04 Koto Tuo Sulit Air. Sekolah ini masih menggunakan metode konvensional dalam pencatatan inventaris sarana dan prasarana, seperti Buku Pencatatan Manual dan *Microsoft Excel*, yang menyebabkan banyak kendala, seperti data tidak akurat, sering terhapus, tidak saling terhubung, serta pencarian informasi yang memakan waktu lama. Sistem pencatatan yang tidak terstruktur menyulitkan staf administrasi dalam melacak status barang dan menghasilkan laporan inventaris yang akurat. Penelitian ini bertujuan untuk merancang sistem informasi inventaris berbasis web kemudian dianalisis menggunakan pendekatan *Unified Modelling Language* (UML), termasuk diagram *Use Case Diagram, Class Diagram, Activity Diagram,* dan *Sequence Diagram* guna meningkatkan efisiensi dan akurasi dalam pengelolaan data sarana dan prasarana. Sistem ini menyediakan fitur pencatatan barang masuk dan keluar, data bangunan, serta pembuatan laporan otomatis. Metode pengembangan yang digunakan adalah *Software Development Life Cycle* (SDLC) dengan pendekatan *waterfall*, yang mencakup tahap analisis, desain, implementasi, pengujian, dan pemeliharaan. Sistem ini juga dapat mengurangi kemungkinan kesalahan manusia dalam pencatatan dan meminimalkan risiko kehilangan aset sekolah. Dengan adanya sistem ini, pengelolaan sarana dan prasarana di SDN 04 Koto Tuo Sulit Air menjadi lebih efektif dan transparan.



**Kata kunci: Sistem Informasi, Inventaris, Sarana dan Prasarana, Pengelolaan Data, Sekolah.**

## *ABSTRACT*

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| ***Title*** | **:** | ***Design of Web Based School Inventory Information System at SDN 04 Koto Tuo Sulit Air Using PHP Programming Language and MySQL Database*** |
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| ***Study Program*** | **:** | ***Information Systems*** |
| ***Degree Granted*** | **:** | **Strata-1 (S1)** |
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*The development of information technology plays an important role in managing school inventory data, including at SDN 04 Koto Tuo Sulit Air. This school still uses conventional methods in recording inventory of facilities and infrastructure, such as Manual Recording Books and Microsoft Excel, which cause many obstacles, such as inaccurate data, often deleted, not connected to each other, and time-consuming information searches. The unstructured recording system makes it difficult for administrative staff to track the status of goods and produce accurate inventory reports. This study aims to design a web-based inventory information system and then analyze it using the Unified Modeling Language (UML) approach, including Use Case Diagram, Class Diagram, Activity Diagram, and Sequence Diagram diagrams to improve efficiency and accuracy in managing facility and infrastructure data. This system provides features for recording incoming and outgoing goods, building data, and automatic report generation. The development method used is the Software Development Life Cycle (SDLC) with a waterfall approach, which includes the stages of analysis, design, implementation, testing, and maintenance. This system can also reduce the possibility of human error in recording and minimize the risk of losing school assets. With this system, the management of facilities and infrastructure at SDN 04 Koto Tuo Sulit Air becomes more effective and transparent.*



**Keywords: Information System, Inventory, Facilities and Infrastructure, Data Management, School.**