

## DESIGN AND DEVELOPMENT OF HELP PATIENT DATA MANAGEMENT INFORMATION SYSTEM AT SINERGI ATAP NEGERI FOUNDATION WEB-BASED USING CODEIGNITER

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### ABSTRACT

*The Sinergi Atap Negeri Foundation is a legal and independent non-profit social foundation with the goal of becoming a halfway house facilitator for needy patients and families. The purpose of this study is to create a data management information system for assisted patients to aid in data management, patient submissions, and data transactions at the Sinergi Atap Negeri Foundation, thereby making work more effective and efficient. The waterfall method is used in software development to collect data from previous studies through observations, interviews, and literature studies. The Sinergi Atap Negeri Foundation's patient data management system, according to the analysis, is still manual, whereas previously data management could only be managed by one foundation administrator and accessed by anyone. Given these concerns, researchers are encouraged to develop a web-based application using PHP, the Codeigniter 3 framework, and Mysql as a database. It is hoped that this information system will improve the performance of foundation employees by making data entry easier and faster, as well as avoiding data loss errors from a security standpoint.*

**Keywords:** Information Systems, Patient Data Management, Framework Codeigniter 3, UML

### 1. Introduction

Indonesia's technological advancement is increasing, and the advancement of information technology is currently very rapid (Friandi, et al., 2021; Setyowati, et al., 2021; Hamzah, et al., 2022). Almost every industry relies on information technology to aid and facilitate human labor. The demand for information is high, and the data produced is true, transparent, and accurate. For an agency, institution, or foundation, data and information must be managed quickly, precisely, and efficiently (Bawono, 2021; Hamzah, et al., 2022).

The Sinergi Atap Negeri Foundation is a non-profit social foundation that is both legal and independent. One of its goals is to become a halfway house facilitator for patients and their families who require a proper place to stay when hospital rooms are limited and users are unable to afford to rent lodging due to economic circumstances. It also helps with the mentoring process, which includes patient pick-up, hospital treatment assistance, and consultation with doctors.

According to the investigation, the Sinergi Atap Negeri Foundation's patient data management system remains manual, despite the fact that previous data management could only be handled by one foundation administrator and viewed by anyone. Furthermore, patient reports are difficult to control and can lead to human errors. Given these concerns, researchers are encouraged to develop a web-based application using PHP, the Codeigniter 3 framework, and Mysql as a database. This information system is intended to improve foundation staff performance and make data submission easier so that it is faster and more detailed, as well as to reduce data loss problems from a security standpoint (Purnomo, et al., 2022).

This research will be used by the Sinergi Atap Negeri Foundation to design, implement, and evaluate a web-based data management information system. This program also aims to replace the current system with a new computerized system that will be more effective and efficient in managing data for all aided patients, recording patient administration, patient submissions, and producing reports online.

a. Understanding of Design