

## ABSTRACT

*With its growth in all current technological paths, public health institutions in Indonesia show the path of existence and services in the eyes of the public. One of the old hospitals in Indonesia, Dr. Hasan Sadikin Central General Hospital, is increasingly improving its services by providing radiation energy technology treatment from nuclear nuclei. Of course, this will produce radioactive waste from medical treatment, which needs to be treated properly. Dr. Hasan Sadikin Central General Hospital manages the radioactive waste generated from the treatment process internally. However, the medical waste treatment process is still done conventionally. It comes from the recording process. The daily waste generated is recorded manually in the warehouse section's recording logbook. The processing is carried out without the help of a monitoring system, so it is difficult to collect data and record the prepared reports. Therefore, in this study, an open-source Enterprise Resource Planning (ERP) system for radioactive waste management module that adapted from manufacturing module in Odoo will be developed, assisted by Quickstart as a method of developing this system. With Odoo ERP, the system can be integrated with various modules such as purchasing modules for the procurement of waste raw materials to be processed, inventory modules for storing the waste materials, manufacturing modules for monitoring waste treatment, and other modules that can be tailored to the needs of Dr. Hasan Sadikin Central General Hospital in the management of this radioactive waste. Using the open-source Odoo ERP, the resulting report will be generated automatically when the waste treatment is done. It can be viewed in various forms such as charts, dashboards, excel, pdf, and others. It will help the extra hospital confidence to make decisions.*

***Keyword—Open-source Enterprise Resource Planning (ERP), Odoo, Quickstart, radiactive medical waste management***