

## **ABSTRACT**

### **DEVELOPMENT OF IoT-BASED PRESENCE SYSTEM FOR SCHOOL USING PROTOTYPE METHOD (Case Study: YPPMNU Ajibarang)**

*Author*

Teguh Rijanandi

19104008

*The Ajibarang Ma'arif NU Education Organizing Foundation (YPPMNU) is a foundation engaged in the field of education in the Ajibarang Banyumas area. YPPMNU has four technical implementation units (UPT), namely SMK Ma'arif NU 1 Ajibarang, SMK Ma'arif NU 2 Ajibarang, STIKES Ibnu Sina Ajibarang, and Modern Islamic Boarding School Ibnu Sina Ajibarang, with around 200 active employees. YPPMNU already uses an information system called the YPPMNU Ajibarang Personnel Management Information System, which has functions such as the ability to record employee data and employee attendance. Previously YPPMNU had its own attendance system using a web-based application where every day employees took attendance by taking out their cell phones and pressing the enter and return buttons. This study aims to develop an IOT-based attendance system using the prototype development method and carry out a final evaluation of the IOT-based attendance system using the UAT (User Acceptance Test) testing technique, so that the IOT-based attendance system can be well received by YPPMNU Ajibarang employees. The research method used in this research is to use the prototype method to make several designs and each design is tested using the blackbox testing method to find out that each design is appropriate and functions properly. The results of this study are in the form of a final evaluation of how the IoT-based attendance system uses the UAT method, and the attendance system itself is IoT-based.*

**Keywords: Attendance, ESP8266, Laravel, RFID, UAT**