

ABSTRACT

IoT-based data processing systems in the observation system help farmers in getting information from monitoring results more easily. The information is in the form of monitored plant growth data and the results of the monitoring data analysis. In this study, monitoring data will be sent to the IoT Platform and stored in a database, then the data will be processed and analyzed using PHP and linear regression methods. After successfully processed, the results will be displayed in a web application so that it can be read clearly or user friendly for farmers who read it. Besides being easy to read, farmers can also predict the growth of the web application. Forecasting from linear data with low distribution can be done and conclusions can be drawn, farmers can access the results of the forecasting via computer and open web pages using an internet browser. Growth charts, tables and data are successfully displayed and information can be read.

Key Words— *Linear Regression, IoT, Web Application.*