

## ABSTRACT

Information technology is an integral part of modern life. In the fast-growing security field, the applications of information are also proliferating, providing benefits to humanity. Indonesia, as an agricultural country that produces vast quantities of food, requires effective security measures in every plantation to ensure crop yields consistently meet the desired targets.

The surveillance system is designed to enhance security by processing CCTV footage recorded from various remote locations that are difficult to monitor. This is enabled by IP cameras that can be accessed from anywhere, ensuring high mobility. The system has proven to be effective in reducing criminal activities in plantation areas. This final project aims to design a web-based application that will monitor IP cameras.

This surveillance system features a web-based IP camera monitoring application that is linked to a database server. The server organizes all recordings produced by the IP cameras based on their recording times. In addition to live monitoring and streaming, this functionality can also be accessed through the web application. During the final project, no losses were incurred on the internet network. The translation was completed using www.

Key terms related to this system include agrarian, security, IP camera, database server and web application.