

Design of Quail Egg Harvesting Equipment Base d on Internet of Things (IoT). Fendik Eko Purnomo, S.Pd., M.T. (Chief Counselor)

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ABSTRACT

The development of livestock commodities is the main source of economic growth in Indonesia which is driven by increasing demand for livestock products and an increasing population. The Internet of Things has been developed to monitor quail egg production. The product designed in this research is a SMART IoT-base d quail cage system. By using the R&D method in this research, the product can be analyzed to obtain data regarding the calculation of the number of quail eggs and whether the product functions well or not as well as its usefulness for users. The realization of designing the tool until the realization of making the system runs well. When the tool is turned on, it can be connected to the WiFi nip that has been programmed and the LCD can count eggs that pass through the sensor properly. The platform created can be used to archive data, calculate online and bots. Telegram successfully read the result data in the Spreadsheet and the Telegram bot displays read. In testing error calculations, the average error calculation result was 2%. The realization of tool design to the realization of system creation went well.

Keywords: Quail farming, egg production, livestock commodities, IoT technology, egg counting.