## PENGGUNAAN APP INVENTOR SEBAGAI ALAT PENGHITUNG BIBIT IKAN OTOMATIS

## **Muhammad Sidiq Budianto**

Program Studi Teknik Komputer, Fakultas Sains dan Teknologi Universitas Teknologi Yogyakarta Jl. Ringroad Utara Jombor Sleman Yogyakarta E-mail : <u>msbsidiq@gmail.com</u>

## ABSTRACT

Indonesia is a country blessed with abundant natural resources. One of them as a support for the economy in Indonesia is in fisheries, namely freshwater fishery commodities. One of the freshwater fish that is highly demanded by the community is catfish and tilapia. The Ministry of Marine Affairs and Fisheries (KKP) also targeted catfish and tilapia production to reach 1,494,691 tons (31.9%) of the total freshwater fishery production of 4,685,446 tons in 2020. Catfish seeds that are ready to be farmed or sold must meet specific criteria. So far, catfish and tilapia fish breeders count fish seeds using the conventional method of human labor. This way has a weakness: human judgment is still subjective and inconsistent with an object, and repeatedly done work can cause saturation. Therefore we need a tool that can count catfish and tilapia seeds that meet the ready-to-sell criteria, thereby improving the quality, time to calculate, the selling price, simplifying and accelerating the work of cultivators in calculating catfish and Nila seeds. In this research, an automatic fish seed counting device based on App inventor will be made to select catfish or tilapia ready to be sold automatically based on the price. The fish seed counted is obtained from the reading from the obstacle sensor. Based on the tests carried out, the accuracy and precision values of the catfish seeds reading are 95.1934% and 93.667%, and the accuracy and precision values of the tilapia seeds reading are 93.95273% and 94.6667%. The reliability of the sensors reading on this sorter is considered quite good and needs to be redeveloped.

Keywords: Catfish and Tilapia Seeds, App Inventor, Counter, Nodemcu