

Title: Android-Based Seedling Monitoring System for the University of Mindanao Environmental Research Department, CASE

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ABSTRACT

Nowadays, almost all transactions are automated which includes using the Smartphone so the researchers came up in the idea of seedling monitoring forms that will be automated with the use of Smartphone. They find it useable to implement in University of Mindanao Environmental Research Department where the planted seedlings will be monitored, and it is an alternative way of lessening the time consuming for the foresters in gathering information on every planted seedling using the manual monitoring forms when they visit the area. It gives benefits to the assigned foresters because they don't have to bring the past record forms and the new forms that need to be filled up manually. The capstone study entitled "Android-based Seedling Monitoring for the University of Mindanao Environmental Research Department, CASE" reduces the time consuming in monitoring the planted seedlings in the vast area. In just one click using the Smartphone, foresters will be able to use the application and can view all the records including the old ones and the recent information of the specific planted seedling, it can also add a new record and can view some infected planted seedlings. And by using the virtual map and the geotagging it's easy to locate the plant species within the vast area.

Keywords: Geo-tag, Spatial Databases, Android, Android Powered Devices, Mobile Phones