

ABSTRACT

Green Open Space is a place to grow plants, both growing naturally and intentionally planted. It can resemble in urban areas, some of which include, city parks, nature tourism parks, urban forests, nature reserves, and botanical gardens. One of its purposes is to provide education for visitors. In Boyolali Regency also has some green open spaces such as Boyolali City Forest, Indrokilo botanical garden, and parks. The limitation of information that could be placed in the signboard of the plant will affect the education's purpose and information retrieved by visitors.

This thesis aims to provide an alternative solution by replacing the use of nameplate on plants by using a QR code by making it an application called Taneman that connects the QR code with information online on the database server. The technology used is a client-server-based system with Android as a client and Django Rest Framework as a backend on the server. In this research, the authors use the Unified Extreme Programming (XP) method, and the design uses the Unified Modeling Language (UML). The result of the research showed that the application could give information about plants through android application and the test is done by using the Black-Box equivalence partitioning that it can prove running as well as the requirement. From this study, it can be concluded that with this research, it is expected to be able to facilitate visitors in obtaining more information on the plants easily and quickly around the green open spaces in Boyolali.

Keywords: Plant information, QR code, Android, Django Rest Framework