

## ABSTRACT

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*The Multimedia Engineering Technology (TRM) Study Program at Telkom University requires a facility for interaction and resource exchange between students and the community. Additionally, it needs a platform to document the works of TRM students. To address these needs, the development of a website-based application called Open Resource Binary and Interactive Technology (ORBIT) was undertaken. In its development, the author utilized a software development life cycle methodology, specifically the waterfall method, and employed the Codeigniter 3 framework. To ensure functionality and usability aligned with user requirements, testing was conducted using black box and System Usability Scale (SUS) methods. The black box testing results indicated that the functionality of ORBIT met expectations, although there were still some bugs. The SUS testing involved 20 respondents and yielded a score of 68 with an Adjective Rating of "Okay" and a Grade of C. This indicates that the ORBIT application is functional and can be utilized as a repository for students of the TRM program.*

*Keywords: CodeIgniter, Website, Waterfall*