

**PENGARUH PERANCANGAN E-ARSIP BERBASIS WEBSITE DI  
TRANSMISI TVRI GUNUNG BETUNG LAMPUNG MENGGUNAKAN  
ALGORITMA DECISION TREE**

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**ABSTRAK**

Penelitian Pembuatan E-Arsip pada Transmisi TVRI Gunung Betung Lampung ini diupayakan untuk kesempurnaan dalam penyelenggaraan kearsipan yang selama ini belum bersifat terpadu, dan pengelolaan dokumen-dokumen masih dilakukan secara manual. Tujuan dari penelitian ini yaitu mengimplementasikan algoritma Decision Tree untuk dapat mempermudah pencarian kembali dokumen yang telah direkam dan dapat mengklasifikasikan arsip secara otomatis ke dalam kategori atau jenis arsip. Metodelogi pada tahap penelitian yang digunakan adalah metodelogi UCD (*User Centered Design*) yaitu sebuah filosofi perancangan yang menerapkan pengguna sebagai pusat dari sebuah pengembangan sistem. Dari hasil analisa, perancangan, pengujian dan implementasi program yang telah dilakukan terhadap Website E-arsip ini Algoritma Decision Tree dapat di implementasikan pada pencarian arsip berdasarkan jenis arsip seperti arsip dokumen, teknis, administrasi, kegiatan dan inventaris. Pengujian dilakukan dengan software Orange dan uji blackbox menunjukan bahwa dalam pembuatan dan penggunaan website yaitu mudah digunakan dan sesuai kebutuhan. Dengan adanya E-arsip ini dapat mempermudah user ataupun admin karyawan di Transmisi TVRI Gunung Betung Lampung dalam proses pencarian data arsip yang ada.

**Kata Kunci : E-arsip, Decision Tree, UCD, Orange, Black box.**

## ABSTRACT

### THE INFLUENCE OF WEBSITE-BASED E-ARCHIVE DESIGN AT TVRI GUNUNG BETUNG TRANSMISSION USING THE DECISION TREE ALGORITHM

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This study aimed to develop a website-based electronic archiving (e-archive) system for the TVRI Gunung Betung Transmission Office to improve the efficiency and accuracy of archive management, which had previously been conducted manually and in an unintegrated manner. The objective of the research was to implement the Decision Tree algorithm to facilitate faster document retrieval and enable automatic classification of archives into appropriate categories. The methodology used in this study was the User-Centered Design (UCD) approach, which emphasizes designing a system based on user needs and usability. The development process included requirement analysis, system design, implementation, and testing. The Decision Tree algorithm was applied to classify archive types such as document archives, technical archives, administrative archives, activity archives, and inventory archives. Testing was conducted using the Orange data mining software to evaluate the algorithm's classification performance, along with Black Box Testing to assess system functionality. The results indicated that the Decision Tree algorithm was successfully implemented for archive classification, and the developed e-archive system met user requirements, was easy to use, and improved the efficiency of retrieving archived documents. In conclusion, the website-based e-archive system provides a practical and effective solution for supporting the archival needs of employees at the TVRI Gunung Betung Transmission Office.

**Keywords:** E-Archive, Decision Tree, UCD, Orange, Black Box Testing

