ABSTRACT

DESIGN AND DEVELOPMENT OF A WEB-BASED DONATION GOODS APPLICATION FOR XYZ FOUNDATION USING THE RAD METHOD

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The development of information technology offers opportunities for social foundations to improve the efficiency and effectiveness of managing donations. However, many foundations still rely on manual methods, which are less optimal for recording and managing donated goods. This research aims to design and develop a web-based donation goods application for the XYZ Foundation using the Rapid Application Development (RAD) method. The RAD method was chosen because it enables rapid application development through iterations and prototyping, effectively addressing user needs.

The application is designed to simplify the donation process for donors while assisting the foundation in recording, monitoring, and managing the distribution of goods transparently. The research process includes requirements analysis, system design, prototype development, and testing. The result of this study is a web-based application that provides features for donor registration, donation goods recording, and accessible reporting.

Application testing was conducted using the black-box testing method, which demonstrated that all application functions operate as required. This application is expected to provide an efficient and transparent solution for the XYZ Foundation in managing donated goods while enhancing public trust in the foundation.

Keywords: Donation Goods Application, RAD, Web Application Development