ABSTRACT

WEBSITE-BASED E-INVENTORY SYSTEM DESIGN USING AGILE METHODS

(Case Study: GBKP Runggun Pantai Barat)

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The goods inventory process at GBKP Runggun Pantai Barat faces various obstacles, such as difficulty searching for data, the risk of damage or loss of documents, as well as no reporting of goods being borrowed, returned and the condition of goods. Manual management also causes the last data update to be carried out three years ago because it takes a long time. The aim of this research is to overcome obstacles by utilizing Agile methodology to develop a web-based e-inventory system. This system is designed to make inventory management easier, allows data input through image uploads, and provides structured reporting on borrowing, returns and the condition of goods. System development was carried out using the Laravel framework with Agile stages, namely planning, design, development, testing, deployment, review and launch. The test results using Blacbox Testing with testers, namely website experts and User Acceptance Testing (UAT), presented a satisfaction level of 92% from the Admin and 91.6% from the Congregation, which was categorized as "Very Good." Through the two stages of testing that have been carried out, it can be concluded that the website-based e-inventory system at GBKP West Coast provides a solution to solve problems related to inventory that have been experienced by GBKP West Coast.

Keywords: *Agile, E-inventory, Information system, User Acceptance Testing*