

Abstract

The PST system is a comprehensive web-based platform developed to efficiently manage scholarship program applications in Pasig City. Its functionalities enable administrators to effectively track and manage the academic progress of scholars, while students can conveniently check their scholarship status and apply online. The system employs two algorithms, Content-based filtering and Collaborative filtering, to recommend scholarships based on students' qualifications and preferences and rank the list of scholars accordingly.

The project underwent an evaluation process using the ISO/IEC 25010 standard to assess its functionality, usability, and reliability, receiving a rating of strongly agree for all three criteria. This study can serve as a valuable reference for future researchers to enhance the system's capabilities by incorporating the latest technology and information. The successful implementation of the PST system highlights its potential to address the challenges encountered in managing scholarship programs effectively. With its intuitive user interface and innovative approach, the PST system has the potential to revolutionize the way scholarship programs are managed and administered.

Keywords: Web-based Student E-Scholar Tracking, Content-based Filtering Algorithm, Collaborative Filtering Algorithm, Scholarship Program Applications, ISO/IEC 25010 Evaluation, User-friendly Interface