ABSTRACT

DESIGN AND DEPLOYMENT OF A GRADUATION RECOMMENDATION SYSTEM FOR NEW STUDENT CANDIDATES BASED ON MODEL VIEW CONTROLLER (Case Study: IT Telkom Purwokerto Admissions Unit)

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The process of selecting new students in the field of education is crucial and requires careful consideration. IT Telkom Purwokerto has a special division, the Admissions Unit, which is responsible for the new student selection process. However, this process often experiences errors, such as errors in calculating the average score of three subjects, mismatches between new student data and graduation guideline data, and a long graduation simulation process. This research proposes a solution to these problems through the implementation of an MVC-based graduation recommendation system to avoid the risk of errors in graduating new student candidates and provide recommendations for graduation status based on ability and field of study. The system was developed using a prototype approach and tested for functionality using blackbox and whitebox testing. The results of the tests that have been carried out show that the functionality of the system as a whole successfully runs according to the test scenario with a large percentage of feasibility of 100%. Thus, the new student candidate graduation recommendation system is feasible to use. It is hoped that the implementation of this MVC-based new student candidate graduation recommendation system will not only help the relevant officers in the decision-making process for new student admissions, but also reduce potential problems that may arise.

Keywords: Graduation Recommendation System, Prototype, MVC, Blackbox, Whitebox