

**EVALUASI APLIKASI PMB ONLINE UNIVERSITAS  
MUHAMMADIYAH JEMBER BERBASIS *TOP TEN WEB APPLICATION  
QUALITY* DENGAN METODE *ANALYTICAL HIERARCHY PROCESS***

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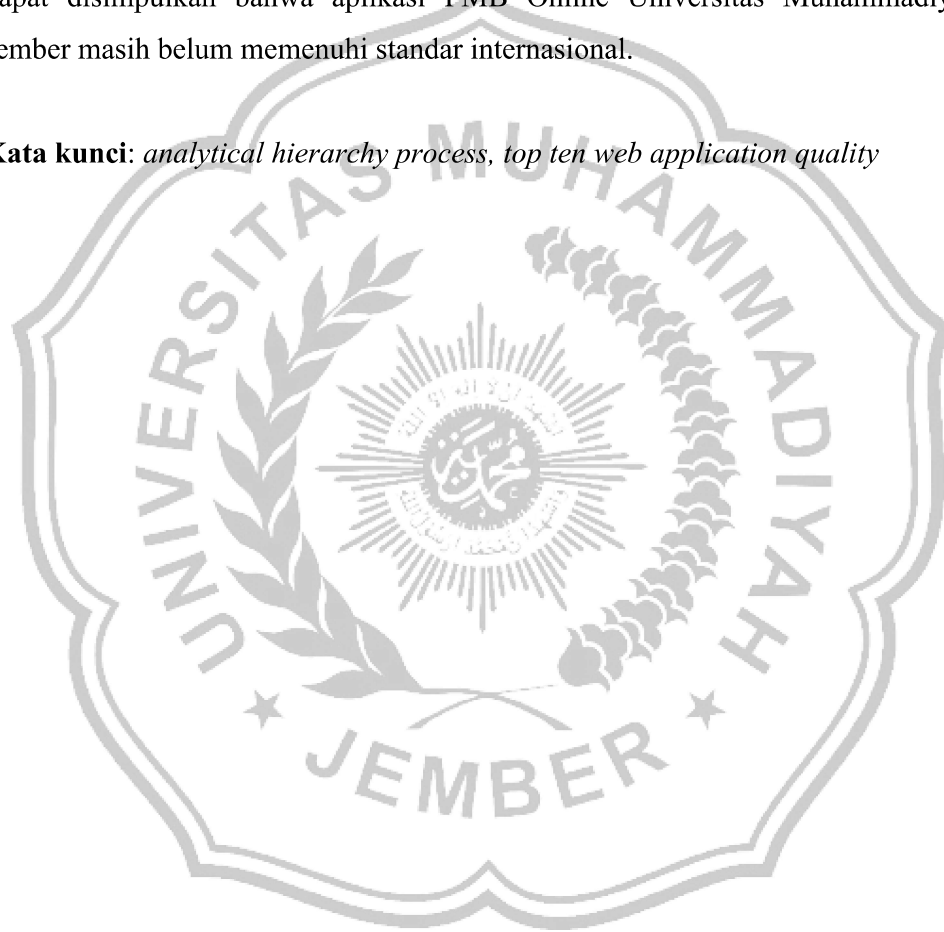
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**ABSTRAK**

Penelitian ini bertujuan untuk mengevaluasi kualitas aplikasi Pendaftaran Mahasiswa Baru (PMB) Online Universitas Muhammadiyah Jember menggunakan atribut *Top Ten Web Application Quality* yang dikombinasikan dengan metode *Analytical Hierarchy Process* (AHP). *top ten web application quality* mencakup sepuluh atribut penting dalam kualitas aplikasi web, yaitu *efficiency*, *security*, *usability*, *traceability*, *availability*, *scalability*, *functionality*, *customizability*, *recoverability*, dan *consistency*. Metode *Analytical Hierarchy Process* (AHP) digunakan untuk menentukan bobot prioritas dari masing-masing atribut yang bertujuan untuk membandingkan penilaian dari para ahli dan pengguna aplikasi. Data dikumpulkan melalui kuesioner yang disebarakan kepada mahasiswa selaku pengguna aplikasi PMB Online. Hasil analisis *Analytical Hierarchy Process* (AHP) menunjukkan bahwa atribut *recoverability* memiliki bobot prioritas tertinggi, diikuti oleh *customizability* dan *traceability*. Hasil evaluasi menunjukkan bahwa aplikasi PMB Online Universitas Muhammadiyah Jember memiliki kualitas yang baik secara keseluruhan, namun masih terdapat beberapa area yang perlu ditingkatkan, terutama dalam hal *recoverability*. Penelitian ini memberikan kontribusi dalam pengembangan model evaluasi kualitas aplikasi web yang komprehensif dan dapat diterapkan pada konteks yang berbeda. Selain itu, hasil penelitian ini juga dapat menjadi masukan bagi Universitas Muhammadiyah Jember dalam meningkatkan kualitas aplikasi PMB Online Universitas Muhammadiyah Jember. Dari hasil pembobotan dengan metode AHP di dapatkan hasil pembobotan setiap kriteria dari *Top Ten Web Application Quality* untuk kriteria *efficiency* memiliki bobot 0,086, *security* memiliki bobot 0,014, *usability* memiliki bobot 0,062, *traceability* memiliki bobot 0,104, *availability* memiliki

bobot 0,045, *scalability* memiliki bobot 0,038, *functionality* memiliki bobot 0,030, *customizability* memiliki bobot 0,212, *recoverability* memiliki bobot 0,321, dan *consistency* memiliki bobot 0,064. Dari hasil penghitungan akurasi dan presisi untuk perbandingan perbandingan kriteria *Top Ten Web Application Quality* antara nilai aktual dan hasil prediksi yang telah dilakukan diperoleh untuk hasilnya sebesar 0 % yang menandakan bahwa tidak ada sama sekali akurasi dan presisi antara nilai aktual dengan hasil prediksi. Dari hasil penghitungan akurasi dan presisi tersebut dapat disimpulkan bahwa aplikasi PMB Online Universitas Muhammadiyah Jember masih belum memenuhi standar internasional.

**Kata kunci:** *analytical hierarchy process, top ten web application quality*



**EVALUATION OF THE ONLINE NEW STUDENT  
REGISTRATION APPLICATION AT MUHAMMADIYAH  
UNIVERSITY JEMBER BASED ON TOP TEN WEB  
APPLICATION QUALITY USING THE ANALYTICAL  
HIERARCHY PROCESS METHOD**

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**ABSTRAK**

*This study aims to evaluate the quality of the Online New Student Registration (PMB) application at the University of Muhammadiyah Jember using the top ten web application quality attributes combined with the Analytical Hierarchy Process (AHP) method. The top ten web application quality attributes encompass ten essential attributes in web application quality, namely efficiency, security, usability, traceability, availability, scalability, functionality, customizability, recoverability, and consistency. The Analytical Hierarchy Process (AHP) method is used to determine the priority weights of each attribute, aiming to compare assessments from experts and application users. Data were collected through questionnaires distributed to students as users of the PMB Online application. The results of the Analytical Hierarchy Process (AHP) analysis indicate that the recoverability attribute has the highest priority weight, followed by Customizability and Traceability. The evaluation results show that the University of Muhammadiyah Jember's PMB Online application has good overall quality, but there are still some areas that need improvement, especially in terms of Recoverability. This research contributes to the development of a comprehensive web application quality evaluation model that can be applied in different contexts. Furthermore, the results of this study can also serve as input for the University of Muhammadiyah Jember to improve the quality of their PMB Online application. From the weighting results using the AHP method, the weight of each criterion of the Top Ten Web Application Quality is obtained. The efficiency criterion has a weight of 0.086, security has a weight of 0.014, usability has a weight of 0.062,*

*traceability has a weight of 0.104, availability has a weight of 0.045, scalability has a weight of 0.038, functionality has a weight of 0.030, customizability has a weight of 0.212, recoverability has a weight of 0.321, and consistency has a weight of 0.064. From the calculation of accuracy and precision for the comparison of rankings of the Top Ten Web Application Quality criteria between the actual value and the predicted results, it is obtained that the result is 0%, indicating that there is no accuracy or precision at all between the actual value and the predicted result. From the results of the accuracy and precision calculations, it can be concluded that the Online Admission System of the University of Muhammadiyah Jember does not yet meet international standards.*

**Keywords:** *Analytical Hierarchy Process, top ten web application quality*

