

Improvement Work on the Website of the Indonesian Natural Products Library

By

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STATEMENT BY THE AUTHOR

I hereby declare that this submission is my own work and to the best of my knowledge, it contains no material previously published or written by another person, nor material which to a substantial extent has been accepted for the award of any other degree or diploma at any educational institution, except where due acknowledgement is made in the thesis.



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ABSTRACT

IMPROVEMENT WORK ON THE WEBSITE OF THE INDONESIAN NATURAL PRODUCTS LIBRARY

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The Indonesian Natural Products Library (INPL) is an important archive for Indonesia's extensive biodiversity, providing useful information to scholars and the general public. However, its website confronts issues such as poor accessibility, low user engagement, and an out-of-date design. This study intends to improve the INPL website's functionality, user experience, and reach. The study takes a mixed-methods approach, integrating user surveys, usability testing, and heuristic evaluations to identify important concerns. To implement best practices, a benchmarking examination of similar databases from around the world is undertaken. Iterative design improvements are done using agile development techniques, followed by a pilot testing phase with key stakeholders. The findings show that major hurdles in navigation, search capabilities, and information presentation impede successful utilisation. Improved features such as an intuitive interface, advanced search options, and multimedia capabilities have significantly increased user satisfaction. The new website also raised interaction metrics by 35% during the pilot phase.

To sum up, the upgrading of the INPL website highlights the importance of user-centred design and iterative development in digital library platforms. These changes position INPL as a more accessible and dependable resource, helping to promote and utilise Indonesia's natural goods on a global scale.

Keywords: Natural Products, Natural Products Library, Web Development, Python, MongoDB.

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DEDICATION

I dedicate this work to my life and my mother.

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