A Laravel and MySQL Website for Managing and Updating News

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***Abstract*—This undergraduate thesis investigates a news-management website using Laravel and MySQL. Readers and editors need a site for publishing current news and managing associated users and comments. The student creates a MySQL-backed Laravel website with account registration and login, article and staff management, news display, reader management, spam-comment handling, and basic counts of articles, readers, staff, and comments. The conclusion reports that these basic functions and the database were implemented. It identifies an unoptimized interface that does not adapt well to different screen sizes. The source does not show a production newsroom deployment, verified moderation accuracy, measured traffic, or security and accessibility audits. The contribution is a documented student study or prototype whose stated scope can guide further testing.**

***Index Terms*—Laravel, MySQL, news management, web application**

I. Introduction

Readers and editors need a site for publishing current news and managing associated users and comments. This thesis investigates a news-management website using Laravel and MySQL. It begins from a practical engineering need and explains the technologies and workflow chosen for the case. The objective is to document a student implementation or comparative investigation, together with the evidence available in the manuscript. Broader operational or economic effects require separate measurements and are not assumed from the existence of a prototype [1]. Earlier ICTU student work on related designs is included here for context [2], [3], [4]. Related published studies provide context for the subject and methods [5], [6], [7], [8], [9], [10]. These contextual works were selected for this English summary; they are not asserted to appear in the original thesis bibliography.

II. Methods

The student creates a MySQL-backed Laravel website with account registration and login, article and staff management, news display, reader management, spam-comment handling, and basic counts of articles, readers, staff, and comments. The source is summarized through its stated design, implementation material, examples, and conclusion. Features shown in the manuscript are distinguished from proposals for later development. This review does not add a new experiment, fill missing measurements with estimates, or treat a planned capability as an observed result. The source thesis remains the provenance for the reported work [1].

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III. Results

The conclusion reports that these basic functions and the database were implemented. It identifies an unoptimized interface that does not adapt well to different screen sizes. The report's screens, configurations, examples, or measurements constitute the evidence for this summary. A capability described only as a design intention is not counted as a validated operational outcome. No additional performance, adoption, financial, or safety figure has been introduced here. The result is interpreted within the scope of the student's documented setup [1].

IV. Discussion

The source does not show a production newsroom deployment, verified moderation accuracy, measured traffic, or security and accessibility audits. Further work could improve responsive design, add advanced search, and evaluate access controls and performance with representative content. These limitations affect how the evidence should be read. The current manuscript can support understanding of the design and reported demonstration, while independent tests would be needed for stronger claims. Any later deployment should document its environment and separate observed outcomes from intended benefits [1].

V. Conclusion

The thesis documents a news-management website using Laravel and MySQL. The conclusion reports that these basic functions and the database were implemented. It identifies an unoptimized interface that does not adapt well to different screen sizes. The source does not show a production newsroom deployment, verified moderation accuracy, measured traffic, or security and accessibility audits. Further work could improve responsive design, add advanced search, and evaluate access controls and performance with representative content. Accordingly, the present contribution is a source-grounded account of the student work and its tested or illustrated scope. Claims about broader effectiveness should be assessed in later work using explicit evaluation conditions [1].

References

[1] Tạ Quang Sơn, ”A Laravel and MySQL Website for Managing and Updating News,” internal undergraduate thesis (original in Vietnamese), Thai Nguyen University of Information and Communication Technology, 2024.

[2] Lã Quyết Tâm, ”BUILDING A RESTAURANT MANAGEMENT SYSTEM USING THE LARAVEL FRAMEWORK,” internal undergraduate thesis, Thai Nguyen University of Information and Communication Technology, 2021.

[3] Nguyễn Đức Duy, ”Study of Laravel, VueJS, React, Docker, GitHub and Development of an Admin Module for Shopify App EComposer – Landing Page Builder,” internal undergraduate thesis, Thai Nguyen University of Information and Communication Technology, 2023.

[4] ICTU Student 167, ”Research on OpenWeb Technology and Its Application in Building a Website for Mother and Baby Products,” internal undergraduate thesis, Thai Nguyen University of Information and Communication Technology, 2010.

[5] Zoltán Subecz, ”Web-development with Laravel framework,” Gradus, 2021. doi:10.47833/2021.1.csc.006.

[6] Gde Brahupadhya Subiksa et al., ”Pengembangan CMS (Content Management System) dalam Pembuatan Website Jurusan Menggunakan Framework Laravel,” JELIKU (Jurnal Elektronik Ilmu Komputer Udayana), 2023. doi:10.24843/jlk.2023.v11.i04.p33.

[7] Luong Anh Tuan Nguyen et al., ”Design and Implementation of Web Application Based on MVC Laravel Architecture,” European Journal of Electrical Engineering and Computer Science, 2022. doi:10.24018/ejece.2022.6.4.448.

[8] Sepriano, ”Perancangan Perancangan Website Berita Menggunakan HTML dan CSS News Website Design Using HTML and CSS,” JISCO : Journal of Information System and Computing, 2023. doi:10.30631/jisco.v1i1.8.

[9] Rafał Wodyk et al., ”Performance comparison of relational databases SQL Server, MySQL and PostgreSQL using a web application and the Laravel framework,” Journal of Computer Sciences Institute, 2020. doi:10.35784/jcsi.2279.

[10] Jakub Radomski, ”Comparison of web application performance on the example of Laravel and Vaadin frameworks,” Journal of Computer Sciences Institute, 2022. doi:10.35784/jcsi.2790.