A Personal Blog Website with Node.js and React

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***Abstract*—This undergraduate thesis investigates a personal blog website built with Node.js and React. A blogger needs to publish and manage posts while readers browse, search, and comment. The student specifies use cases for searching posts and adding, editing, and deleting posts and comments, then documents the Node.js and React implementation and its interfaces. The report presents the blog prototype and user workflows. Its conclusion emphasizes the experience of building and managing an online blog but supplies no measured readership or engagement outcome. The source does not provide production traffic data, a security review, a controlled usability study, or proof of community growth. The contribution is a documented student study or prototype whose stated scope can guide further testing.**

***Index Terms*—Node.js, React, personal blog, content management**

I. Introduction

A blogger needs to publish and manage posts while readers browse, search, and comment. This thesis investigates a personal blog website built with Node.js and React. 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 specifies use cases for searching posts and adding, editing, and deleting posts and comments, then documents the Node.js and React implementation and its interfaces. 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 report presents the blog prototype and user workflows. Its conclusion emphasizes the experience of building and managing an online blog but supplies no measured readership or engagement outcome. 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 provide production traffic data, a security review, a controlled usability study, or proof of community growth. Further work could test the publishing and comment controls, improve moderation, and measure usability and performance with real 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 personal blog website built with Node.js and React. The report presents the blog prototype and user workflows. Its conclusion emphasizes the experience of building and managing an online blog but supplies no measured readership or engagement outcome. The source does not provide production traffic data, a security review, a controlled usability study, or proof of community growth. Further work could test the publishing and comment controls, improve moderation, and measure usability and performance with real 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] Hoàng Trung Kiên, "A Personal Blog Website with Node.js and React," internal undergraduate thesis (original in Vietnamese), Thai Nguyen University of Information and Communication Technology, 2024.

[2] Bùi Xuân Việt, ”Construction of Real-Time WebChat Using NodeJS,” internal undergraduate thesis, Thai Nguyen University of Information and Communication Technology, 2021.
[3] Kiều Hoàng Phúc, ”Construction of an Online Clothing Store Website Using Reactjs for Hoang Minh Store,” internal undergraduate thesis, Thai Nguyen University of Information and Communication Technology, 2023.
[4] 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.
[5] Nikos Kasioumis et al., ”Towards building a blog preservation platform,” World Wide Web, 2013. doi:10.1007/s11280-013-0234-4.
[6] Karan Gupta et al., ”Blog in web application: a software engineering perspective,” International Journal of Web Engineering and Technology, 2014. doi:10.1504/ijwet.2014.064789.
[7] A., ”REQUIREMENTS FOR BLOG IN WEB APPLICATION,” American Journal of Engineering and Applied Sciences, 2012. doi:10.3844/ajeassp.2012.266.274.
[8] Jong-Deok Kim et al., ”Changes of Technologies of the Self by Personal Blog,” The Journal of the Korea Contents Association, 2008. doi:10.5392/jkca.2008.8.8.128.
[9] A. Oghlukyan and G. Karapetyan, ”Information Technologies and Developing a Single Page Web Application Using the React Library,” Alternative, Mar. 2022.
[10] David R. Karger et al., ”What would it mean to blog on the semantic web?,” Journal of Web Semantics, 2005. doi:10.1016/j.websem.2005.06.002.