A React Website for Sao Viet Glass Store in Thai Nguyen

Nguyễn Văn Tin
Thai Nguyen University of Information and Communication Technology
Thai Nguyen University, Thai Nguyen, Vietnam
student568@ictu.edu.vn

***Abstract*—This undergraduate thesis investigates a React storefront for the Sao Viet glass store in Thai Nguyen. A glass retailer needs a way to present products and receive customer requests online. The student studies React and designs a web storefront with product display, search, a shopping cart, checkout screens, and administrative functions. The thesis documents the application structure and example interfaces. The report presents the main storefront and administration screens as a student implementation. Its conclusion proposes better reporting, delivery-fee handling, and responsive display as future work. It does not establish verified online payments or real sales. The source does not report a controlled usability assessment, production deployment, security review, or independently measured business outcome. The contribution is a documented student study or prototype whose stated scope can guide further testing.**

***Index Terms*—React, e-commerce, glass store, web application**

I. Introduction

A glass retailer needs a way to present products and receive customer requests online. This thesis investigates a React storefront for the Sao Viet glass store in Thai Nguyen. 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], [5], [6], [7], [8]. Related published studies provide context for the subject and methods [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 studies React and designs a web storefront with product display, search, a shopping cart, checkout screens, and administrative functions. The thesis documents the application structure and example 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].

Supervisor: Nguyễn Hiền Trinh, Thai Nguyen University of Information and Communication Technology (nhtrinh@ictu.edu.vn).

III. Results

The report presents the main storefront and administration screens as a student implementation. Its conclusion proposes better reporting, delivery-fee handling, and responsive display as future work. It does not establish verified online payments or real sales. 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 report a controlled usability assessment, production deployment, security review, or independently measured business outcome. Further work could test complete customer orders, verify inventory accuracy, and evaluate access across different screen sizes. 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 React storefront for the Sao Viet glass store in Thai Nguyen. The report presents the main storefront and administration screens as a student implementation. Its conclusion proposes better reporting, delivery-fee handling, and responsive display as future work. It does not establish verified online payments or real sales. The source does not report a controlled usability assessment, production deployment, security review, or independently measured business outcome. Further work could test complete customer orders, verify inventory accuracy, and evaluate access across different screen sizes. 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] Nguyễn Văn Tin, ”A React Website for Sao Viet Glass Store in Thai Nguyen,” internal undergraduate thesis (original in Vietnamese), Thai Nguyen University of Information and Communication Technology, 2024.

[2] Nguyễn Như Nguyên, ”Construction of an Online Phone and Accessories Sales Website for F5 Mobile Store,” internal undergraduate thesis, Thai Nguyen University of Information and Communication Technology, 2021.

[3] Đinh Tiến Tùng, ”Construction of an E-commerce Website for Laptop Sales for Hoang Anh-Bac Giang Store,” internal undergraduate thesis, Thai Nguyen University of Information and Communication Technology, 2021.

[4] 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.

[5] Lô Khánh Hòa, ”Construction of an Online Clothing Store Website for Ilike Store,” internal undergraduate thesis, Thai Nguyen University of Information and Communication Technology, 2021.

[6] Lưu Xuân Chiến, ”Construction of a Bookstore Website for Minh Sang Bookstore,” internal undergraduate thesis, Thai Nguyen University of Information and Communication Technology, 2023.

[7] Trần Thanh Tú, ”Clothing Sales Website for Ha My Store in Thai Nguyen,” internal undergraduate thesis, Thai Nguyen University of Information and Communication Technology, 2014.

[8] Ngọ Văn Tùng, ”Construction of an Online Shopping Website for a Furniture Store,” internal undergraduate thesis, Thai Nguyen University of Information and Communication Technology, 2021.

[9] O.A. Tuzenko et al., ”Development of a web application for houseplants e-commerce shop based on technology stack Laravel + React,” Reporter of the Priazovskyi State Technical University. Section: Technical sciences, 2023. doi:10.31498/2225-6733.47.2023.299975.

[10] Aleksandra Całka et al., ”Online website in brand creation of online store,” Marketing i Zarządzanie, 2016. doi:10.18276/miz.2016.46-13.