An Agricultural Products Sales Website for Bac Ha, Lao Cai

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***Abstract*—This undergraduate thesis investigates an online sales website for agricultural products from Bac Ha district, Lao Cai. Local agricultural producers need a way to present products and manage customer enquiries and orders. The student elicits requirements, models customer and administrator use cases, and implements a website for product categories, staff, customers, and purchase workflows. The thesis documents the website design and demonstrates the principal pages. The author reports functional tests during development but does not provide reproducible performance figures. The source identifies complete product data, privacy, and interface refinement as challenges; online payment and AI-assisted features are described as possible later additions. The contribution is a documented student study or prototype whose stated scope can guide further testing.**

***Index Terms*—agricultural e-commerce, Bac Ha, product catalogue, website design**

I. Introduction

Local agricultural producers need a way to present products and manage customer enquiries and orders. This thesis investigates an online sales website for agricultural products from Bac Ha district, Lao Cai. 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], [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 elicits requirements, models customer and administrator use cases, and implements a website for product categories, staff, customers, and purchase workflows. 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 thesis documents the website design and demonstrates the principal pages. The author reports functional tests during development but does not provide reproducible performance figures. 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 identifies complete product data, privacy, and interface refinement as challenges; online payment and AI-assisted features are described as possible later additions. Further work could verify product data with local sellers, evaluate usability and order accuracy, and measure performance under a defined workload. 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 an online sales website for agricultural products from Bac Ha district, Lao Cai. The thesis documents the website design and demonstrates the principal pages. The author reports functional tests during development but does not provide reproducible performance figures. The source identifies complete product data, privacy, and interface refinement as challenges; online payment and AI-assisted features are described as possible later additions. Further work could verify product data with local sellers, evaluate usability and order accuracy, and measure performance under a defined workload. 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 Quang Hải, ”An Agricultural Products Sales Website for Bac Ha, Lao Cai,” internal undergraduate thesis (original in Vietnamese), Thai Nguyen University of Information and Communication Technology, 2024.

[2] 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.

[3] Nguyễn Thị Bích Liên, ”Product Promotion and Online Sales Website for Tribeco Northern Vietnam Co., Ltd. in Hung Yen,” internal undergraduate thesis, Thai Nguyen University of Information and Communication Technology, 2013.

[4] Lưu Thị Thu Hằng, ”Online Sales Website for the Paper Raw Material Plants Research Institute in Phu Tho,” internal undergraduate thesis, Thai Nguyen University of Information and Communication Technology, 2013.

[5] Nguyễn thị Vinh, ”Product Catalog and Online Sales Website for Tuan Nghia Manufacturing and Assembly Co., Ltd. in Hanoi,” internal undergraduate thesis, Thai Nguyen University of Information and Communication Technology, 2013.

[6] Trần Thị Thắng, ”Construction of an Online Product Introduction and Sales Website for the Vietnam-Hungary Electric Motor Manufacturing Company,” internal undergraduate thesis, Thai Nguyen University of Information and Communication Technology, 2013.

[7] Trần Thị Hải Yến, ”Development of a Product Website for Co Tra Eatery in Thai Nguyen,” internal undergraduate thesis, Thai Nguyen University of Information and Communication Technology, 2023.

[8] ICTU Student 221, ”Sales Website for Viet Thai Trading and Tourism Co., Ltd.,” internal undergraduate thesis, Thai Nguyen University of Information and Communication Technology, 2010.

[9] Trần Thị Lan, ”Online Sales Website for Khanh Linh Private Enterprise in Vinh Phuc,” internal undergraduate thesis, Thai Nguyen University of Information and Communication Technology, 2014.

[10] 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.