A Smart Home Device Sales Website for Hunonic

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***Abstract*—This undergraduate thesis investigates a website for selling Hunonic smart-home devices. A device supplier needs a product catalogue, search, and a manageable online storefront. The student analyses the business case, designs a database, and builds a website with product information, search, news, account administration, images, and an online-payment feature described in the source. The conclusion lists the main website functions and states that the report and program were completed. It also acknowledges shortcomings in the user-facing system and proposes better account permissions, stock reporting, and automated order processing. The thesis does not provide independent evidence of completed financial transactions, real-world adoption by Hunonic, or a security review of accounts and payments. The contribution is a documented student study or prototype whose stated scope can guide further testing.**

***Index Terms*—smart-home devices, Hunonic, e-commerce, product search**

I. Introduction

A device supplier needs a product catalogue, search, and a manageable online storefront. This thesis investigates a website for selling Hunonic smart-home devices. 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 analyses the business case, designs a database, and builds a website with product information, search, news, account administration, images, and an online-payment feature described in the source. 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 lists the main website functions and states that the report and program were completed. It also acknowledges shortcomings in the user-facing system and proposes better account permissions, stock reporting, and automated order processing. 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 thesis does not provide independent evidence of completed financial transactions, real-world adoption by Hunonic, or a security review of accounts and payments. Further work could verify the payment and order flows, protect customer data, and test inventory accuracy with operational examples. 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 website for selling Hunonic smart-home devices. The conclusion lists the main website functions and states that the report and program were completed. It also acknowledges shortcomings in the user-facing system and proposes better account permissions, stock reporting, and automated order processing. The thesis does not provide independent evidence of completed financial transactions, real-world adoption by Hunonic, or a security review of accounts and payments. Further work could verify the payment and order flows, protect customer data, and test inventory accuracy with operational examples. 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].

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