# A Spring MVC E-Commerce Website for Mobile Phones and Accessories

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***Abstract*—This thesis develops an e-commerce website using Spring MVC and related Java technologies. The reported application presents mobile phones, accessories, and technology articles and lets users search, place orders, review their orders, and cancel them. The author describes JavaScript, HTML, Spring Boot, MySQL, system diagrams, and implementation screens. The conclusion calls the system relatively complete but also states that some e-commerce functions remain missing. Facebook account connection, phone verification, chatbot support, and delivery tracking are proposed future features. The source does not provide a measured reliability benchmark, transaction audit, or evidence of live commercial use. Its contribution is a documented student storefront prototype with a defined set of implemented and unfinished functions.**

***Index Terms*—Spring MVC, e-commerce, mobile phones, MySQL, order management**

## I. Introduction

Online phone sales require product information and a workflow for customer orders. This thesis explores those needs through a website developed with Spring MVC. It reviews web languages, Java frameworks, database technology, and relevant development tools before presenting the application. The objective is to support browsing and ordering of phones and accessories. The source does not establish a measured baseline for an existing store or a completed commercial rollout [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 author analyzes the storefront functions, prepares system designs, and develops the application with Java, Spring-related tools, JavaScript, HTML, and MySQL. The practical chapters describe interfaces and APIs for finding products, reading technology articles, placing orders, viewing order history, and canceling an order. Postman and development tools appear in the implementation. The report does not specify a formal load test, payment-security audit, or user acceptance study [1].

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## III. Results

The manuscript presents a website prototype with product and article browsing, search, order placement, and order management. Its conclusion reports that these core functions were built. It also acknowledges that a full e-commerce site requires additional features. No independent measurement supports claims of improved efficiency or reliability. The documented outcome is the implemented student application and its screens, not a verified production sales service [1].

## IV. Discussion

The site provides a starting point for online phone and accessory purchases, but operational commerce needs secure accounts, payment handling, delivery integration, and reliable error recovery. The author identifies account linking, phone verification, chat assistance, and shipment tracking as possible extensions. Those functions should not be presented as already available. A later evaluation should test transactions and data integrity with real users and controlled loads [1].

## V. Conclusion

The thesis documents a Spring MVC based e-commerce prototype for phones and accessories. It supports product information and basic order workflows, according to the implementation and conclusion. The author explicitly notes missing features and proposes later integration work. The source does not verify production use or measured performance. Additional testing and completion of commerce functions would be necessary before routine deployment [1].

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