Construction of a Business Management Program for Car Sales for SONTUNG AUTO

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***Abstract*—This graduation project develops a management program for car sales at SonTung Auto. The source report describes the business requirements, application analysis, class structure, screen flows, testing material, and a software demonstration. The proposed functions address vehicle information, customers, contracts, and related management tasks. The output is an application and its design documentation. The source includes a testing chapter, but it does not provide an unambiguous aggregate result showing that every function or every test passed. This summary therefore reports the documented system and testing approach without inventing a pass count or a performance benchmark.**

***Index Terms*—software development, car sales management, StarUML, MF.UFT, testing, system analysis**

I. Introduction

Car-sales operations require consistent records for vehicles, customers, transactions, and contracts. The thesis uses SonTung Auto as the application setting and states the need to organize these activities in software. It begins with relevant concepts and then gathers and clarifies requirements before moving to system design. The purpose of the work is to produce an application that follows the described business process, together with diagrams, interface flows, and test documentation. The report does not position the work as a measured comparative experiment [1]. Published books on the methods and subject of this project provide context for this English summary [8].

II. Methods

The author collected and clarified functional requirements, analyzed the business workflow, and prepared class descriptions and screen-flow diagrams. Application functions were developed from this design and presented in a software demo. A separate testing chapter records how selected functions were checked. The methods are therefore requirement analysis, object and interface design, implementation, and functional inspection. The source does not establish a complete benchmark or a verified total of passing test cases [1].

III. Results

The report presents a car-sales management application with screens and functions for the activities identified in the requirements. It also supplies design diagrams, class specifications, screen navigation, a testing chapter, and a demo. These artifacts show what was built and how the author examined selected behaviors. The source supports the existence of the implemented functions, but it does not justify a claim that every possible function worked without error or that an exact total of tests passed [1].

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IV. Discussion

The project connects a concrete sales workflow to data records, classes, and application screens. The design documentation helps explain the relationship between requirements and implementation, while the test chapter provides examples of functional checking. The report's evidence is mainly descriptive and does not establish comparative efficiency, reliability, or comprehensive coverage. Further work would need independently documented test cases and deployment evidence before claiming operational performance at the store [1]. Earlier ICTU undergraduate work by Đỗ Thị Thu addressed sales management software [7].

V. Conclusion

The project produced an application and supporting design and testing documents for the SonTung Auto sales-management case. Its main value lies in organizing the store's stated processes into software functions and describing their implementation. The available source supports completion of those artifacts. It does not support a universal pass-rate claim or a quantified business improvement. Future evaluation can extend test coverage and examine the application under real operating conditions [1].

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