A C# Library Management System for Ung Hoa B High School

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***Abstract*—This thesis develops a C# library-management system for Ung Hoa B High School in Hanoi. The report analyzes library workflows, models readers and books, and designs forms for searching, borrowing, returning, and administering records. It documents implementation screens and the author states that the basic program was operated and its core functions worked. The conclusion also acknowledges an unfinished interface and incomplete features. Claims that the system will save staff time or reduce errors are proposed benefits; the source does not measure them. No sustained school deployment or independent user study is described. The contribution is a documented student software prototype that can be improved through functional testing with librarians and readers.**

***Index Terms*—library management, C#, books, borrowing, school library**

I. Introduction

School libraries need consistent records of books, readers, and loans. The thesis takes Ung Hoa B High School as a case for a C# management application. It describes the library process and identifies search, borrowing, returning, and administrative tasks. The objective is to organize these tasks in software. The source does not establish a quantitative baseline for staff workload, loan errors, or reader search time [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 library requirements, prepares UML and workflow diagrams, and develops forms with C# in Visual Studio. The design covers book stock, reader records, loan slips, returns, and search. The implementation chapter presents screenshots of the corresponding interfaces. The source does not describe a controlled field trial with librarians, independent security evaluation, or formal measurement of task completion time [1].

III. Results

The manuscript documents models and program screens for core library operations. The author says the program was operated and the basic functions worked, while acknowledging that some functions remain unfinished and the interface needs improvement. The report does not provide figures for loan processing speed, error reduction, or user adoption at the school. The evidence supports a student prototype with a partially implemented workflow [1].

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IV. Discussion

Bringing books, readers, and loan records into one application could make information easier to find, but that practical benefit remains unmeasured. Incomplete forms and functions may affect real library work. The author identifies these limitations and proposes making search and service more useful to readers. Further testing should use real circulation cases, verify data consistency, and solicit librarian feedback before regular deployment [1].

V. Conclusion

The thesis documents a C# library-management prototype for Ung Hoa B High School, including book, reader, search, borrowing, and return workflows. Its screens and diagrams show the intended structure and basic implementation. The author states that some features and interface details remain unfinished. The source does not establish measured time savings or error reduction. Additional functional testing and user review are needed [1].

References

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