An Employee Management Application for Nam Tuyen Handicrafts and Trading Company

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***Abstract*—This thesis presents a personnel management application for Nam Tuyen Handicrafts and Trading Company. The author surveys the organization and its administrative tasks, models user requirements, and designs a Windows Forms application using C# and SQL Server. The documented functions include sign-in, departments, positions, employee records, salaries, and insurance information. Screens and use-case descriptions show the intended administrative workflow. The conclusion says the program was completed but also acknowledges development errors and limited functionality. It includes an unrelated sentence about customer orders; this summary relies on the personnel-management chapters instead. The source provides no measured productivity improvement, independent security review, or evidence of sustained company deployment. The result is a documented student prototype that needs further functional testing with the company before operational use.**

***Index Terms*—employee management, C#, Windows Forms, SQL Server, personnel records**

I. Introduction

Employee administration requires consistent records of people, organizational units, positions, pay, and insurance. This thesis takes Nam Tuyen Handicrafts and Trading Company as a case for developing a software system. The report describes the company context and reviews C#, Windows Forms, SQL Server, and object-oriented analysis. Its aim is to organize personnel operations in one interface. It does not establish a quantified baseline for the company existing workflow [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 surveys the personnel process, identifies user requirements, and prepares use cases and screen designs. A C# Windows Forms application is designed around an SQL Server database. The practical chapter documents login and interfaces for departments, positions, employees, salaries, and insurance, with descriptions of adding, editing, and removing records. The manuscript does not describe controlled user testing, a formal security assessment, or a comparison of processing time before and after implementation [1].

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III. Results

The source presents analysis diagrams, database-related design, use-case descriptions, and screenshots of the personnel-management interface. The conclusion reports that a program was completed and that its interface is easy to use, while acknowledging errors and a limited feature set. Claims about improved efficiency are not accompanied by measurements. No evidence of a production installation at Nam Tuyen or routine use by administrative staff is given [1].

IV. Discussion

Combining employee and organizational data in one application could reduce fragmented record handling, but this benefit remains an expectation. The source conclusion contains text about customers placing orders, which is unrelated to the personnel system and should not be treated as evidence about its functions. The documented errors and limited features also constrain adoption. Further work should validate access permissions, data correctness, backup, and staff workflows against actual company requirements [1].

V. Conclusion

The thesis documents a C# and SQL Server personnel-management prototype for Nam Tuyen. It shows interfaces for organizational and employee administration and describes common record operations. The author reports incomplete functionality and development errors. The source does not substantiate measured productivity gains or ongoing deployment. The prototype can be refined through requirements validation, functional testing, and security review before operational use [1].

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