Payroll Management Program for Thai Nguyen Provincial Radio and Television Station

Nguyễn Thị Huế
Thai Nguyen University of Information and Communication Technology
Thai Nguyen University, Thai Nguyen, Vietnam
student351@ictu.edu.vn

***Abstract*—This undergraduate project examines "Payroll Management Program for Thai Nguyen Provincial Radio and Television Station." The thesis describes a Visual C# and SQL Server payroll program for Thai Nguyen Provincial Radio and Television Station. The original conclusion says it worked in a Microsoft Visual Studio and SQL Server Express test environment and implemented a database, basic content-management functions, and some data queries. Payroll joins personnel records, attendance, allowances, and salary rules. The available thesis does not document routine institutional deployment or measured efficiency gains. Its contribution is a tested prototype and system analysis within a limited feature scope, with further work needed on the unfinished payroll functions. The work is reported within the scope supported by the original manuscript, without assuming an unrecorded deployment or quantitative benefit.**

***Index Terms*—salary management, database, Visual C#, SQL Server, programming, system design**

I. Introduction

Payroll joins personnel records, attendance, allowances, and salary rules. The thesis examines an organization's existing workflow and the information needed to support its selected task. It identifies a practical task, selects functions to study or build, and explains why the task matters to the organization concerned. The evidence for the project is its requirements analysis, design material, and described implementation. Intended advantages are distinguished from effects actually established in the manuscript [1]. Published books on the methods and subject of this project provide context for this English summary [9], [10].

II. Methods

The student analyzed the selected case, described the relevant records and procedures, and prepared the design or program functions reported in the thesis. The design links input records to the updates, searches, reports, or other functions relevant to the task. Functional descriptions, diagrams, interfaces, and source conclusions are used where present to identify completed work. The manuscript is not treated as evidence of an additional user trial or dataset that it does not document [1].

Supervisor: Vũ Xuân Nam, Thai Nguyen University of Information and Communication Technology (vxnam@ictu.edu.vn).

III. Results

The thesis describes a Visual C# and SQL Server payroll program for Thai Nguyen Provincial Radio and Television Station. The original conclusion says it worked in a Microsoft Visual Studio and SQL Server Express test environment and implemented a database, basic content-management functions, and some data queries. It also states that many planned functions were unfinished. These facts support a working trial application, not a fully integrated station payroll system. The source does not quantify processing time, salary accuracy, or adoption by the station's staff [1].

IV. Discussion

The thesis describes a Visual C# and SQL Server payroll program for Thai Nguyen Provincial Radio and Television Station. The original conclusion says it worked in a Microsoft Visual Studio and SQL Server Express test environment and implemented a database, basic content-management functions, and some data queries. The reported functions can be interpreted against the original organizational need, but implementation alone does not establish every intended benefit. The available thesis does not document routine institutional deployment or measured efficiency gains. Its contribution is a tested prototype and system analysis within a limited feature scope, with further work needed on the unfinished payroll functions. Complete payroll cases and exception handling would be needed to validate calculated pay. The source provides a case study and a basis for later verification of completeness, reliability, and use [1]. Earlier ICTU undergraduate work by Bùi Thị Dịu addressed payroll management software [8].

V. Conclusion

The student analyzed the station's payroll task and built a program that operated in a specified development test environment. The source conclusion records basic database and query functions and acknowledges that several requirements remained unmet. It proposes continued development before fuller practical use. The available thesis does not document routine institutional deployment or measured efficiency gains. Its contribution is a tested prototype and system analysis within a limited feature scope, with further work needed on the unfinished payroll functions [1].

References

[1] Nguyễn Thị Huế, "Payroll Management Program for Thai Nguyen Provincial Radio and Television Station," internal undergraduate thesis (original in Vietnamese), Thai Nguyen University of Information and Communication Technology, 2014.

[2] Thạc Bình Cường (2002), Giáo trình phân tích và thiết kế hệ thống thông tin, NXB đại học Quốc gia, Hà Nội

[3] Nghiêm Văn Lợi (2012), Giáo trình kế toán hành chính sự nghiệp, Đại học kinh tế quốc dân

[4] Lê Văn Phùng (2005), Cơ sở dữ liệu quan hệ và công nghệ phân tích thiết kế, NXB Thông tin và Truyền thông

[5] Nguyễn Hồng Phương, Huỳnh Minh Đức, Đoàn Thiện Ngân, (2008), Phân tích thiết kế hệ thống thông tin phương pháp và ứng dụng, NXB Lao động xã hội

[6] Chu Kỳ Quang (2010), Giáo trình Cơ sở dữ liệu, Học viện Công nghệ Bưu chính Viễn thông

[7] Đào Kiến Quốc (1999), Phân tích và thiết kế hệ thống tin học hoá, NXB Đại học Quốc gia Hà Nội

[8] Bùi Thị Dịu, "Employee Payroll Management Program for Thai Nguyen Transport Construction Consulting Joint Stock Company," internal undergraduate thesis, Thai Nguyen University of Information and Communication Technology, 2013.

[9] A. Silberschatz, H. F. Korth, and S. Sudarshan, Database System Concepts, 5th ed. McGraw-Hill, 2005. ISBN 9780072958867.

[10] I. Sommerville, Software Engineering, 7th ed. Addison-Wesley, 2004. ISBN 9780321210265.