Payroll Management Program for TNL Thai Nguyen Real Estate Joint Stock Company

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***Abstract*—This thesis develops a payroll management program for TNL Thai Nguyen Real Estate Joint Stock Company. The student surveys the company's salary-accounting workflow, designs personnel and attendance records, and implements salary calculation and monthly reporting functions. The original conclusion says the application moved selected management steps from manual handling toward computer-based records. It does not present a formal reliability test, a finding of zero critical errors, or measured efficiency gains. This paper summarizes the implemented functions and distinguishes the intended benefits from validated outcomes. Further checking with complete and exceptional payroll cases would be needed before routine company use could be assessed.**

***Index Terms*—salary management, real estate, employee information, salary components, testing**

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]. Related earlier ICTU undergraduate theses provide context for this English summary [8]. Published books on the methods and subject of this project provide context for this English summary [9].

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].

III. Results

The student analyzed payroll at TNL Thai Nguyen Real Estate and implemented functions for employee information, positions, departments, attendance, salary calculations, and monthly reports. The source conclusion describes the move from manual handling toward computer-based records as a project outcome. It does not present a formal test finding of zero critical errors or independently measured reliability. The program's documented outputs are the stated management and reporting functions. Claims about fewer mistakes and faster retrieval are expressed in the source as expected benefits and would need comparative verification [1].

Supervisor: Trịnh Phú Cường.

IV. Discussion

The student analyzed payroll at TNL Thai Nguyen Real Estate and implemented functions for employee information, positions, departments, attendance, salary calculations, and monthly reports. The source conclusion describes the move from manual handling toward computer-based records as a project outcome. The reported functions can be interpreted against the original organizational need, but implementation alone does not establish every intended benefit. The work demonstrates a computer-based payroll workflow for the case study. Full operational assessment would require representative payroll cases, checks of exceptional rules, and feedback from company users. 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 Nguyễn Thị Vân addressed company payroll management software [7].

V. Conclusion

The thesis presents a payroll program for TNL Thai Nguyen Real Estate with employee records, attendance, calculations, and reports. The original conclusion states that these functions address the student's initial objectives. It does not document a complete system audit, production rollout, or measured savings in time and error rate. The work demonstrates a computer-based payroll workflow for the case study. Full operational assessment would require representative payroll cases, checks of exceptional rules, and feedback from company users [1].

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