Construction and Implementation of a Tax Management Program for the Yen Phong District Tax Office

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***Abstract*—This thesis focuses on the development and implementation of a tax management program for the Yen Phong District Tax Office. The research involved system surveys, system analysis and design, and the implementation of a database, forms, reports, and search functionalities. The system aims to streamline tax management processes, reducing time and human resource consumption. However, due to limited time and knowledge, the project has some shortcomings, and future work is planned to address these issues. The system includes modules for business registration, tax declaration, and tax payment, as well as a user management system. The database design and UML diagrams were created to support the system's functionalities. The implementation was carried out using VB6 programming, and the system was tested with a few worked examples. Despite the limitations, the system shows potential for improving the efficiency of tax management processes.**

***Index Terms*—tax management, system design, UML diagrams, database design, VB6 programming**

I. Introduction

With the advancement of information technology, its role in society has become increasingly significant. This thesis aims to develop and implement a tax management program for the Yen Phong District Tax Office to improve the efficiency of tax management processes. The research covers system surveys, system analysis and design, and the implementation of a database, forms, reports, and search functionalities. The system is designed to manage tax data, including business registration, tax declaration, and tax payment. However, due to the limited time and knowledge of the researcher, the project has some shortcomings, and future work is planned to address these issues [1]. Related earlier ICTU undergraduate theses provide context for this English summary [6], [7], [8]. Published books on the methods and subject of this project provide context for this English summary [9], [10].

II. Methods

The research involved system surveys, analysis, and design, including the creation of various diagrams such as Use Case Diagrams, Sequence Diagrams, Class Diagrams, and Component Diagrams. The system was designed to manage tax data, including business registration, tax declaration, and tax payment. The database design and UML diagrams were created to support the system's functionalities. The implementation was carried out using VB6 programming. The system was tested with a few worked examples, including business registration, tax declaration, and tax payment processes [1].

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III. Results

The system was designed to streamline tax management processes, including business registration, tax declaration, and tax payment. The system includes modules for business registration, tax declaration, and tax payment, as well as a user management system. The database design and UML diagrams were created to support the system's functionalities. The implementation was carried out using VB6 programming, and the system was tested with a few worked examples. However, due to the limitations of the research time and the researcher's knowledge, the system has some shortcomings, and future work is planned to address these issues [1].

IV. Discussion

The system was designed to improve the efficiency of tax management processes. However, due to the limitations of the research time and the researcher's knowledge, the system has some shortcomings. The system includes modules for business registration, tax declaration, and tax payment, as well as a user management system. The database design and UML diagrams were created to support the system's functionalities. The implementation was carried out using VB6 programming, and the system was tested with a few worked examples. Future work will focus on addressing these issues and applying the system in real-world scenarios [1].

V. Conclusion

The research concluded that the developed system could improve the efficiency of tax management processes. However, further development is needed to fully meet the requirements of the Yen Phong District Tax Office. The system includes modules for business registration, tax declaration, and tax payment, as well as a user management system. The database design and UML diagrams were created to support the system's functionalities. The implementation was carried out using VB6 programming, and the system was tested with a few worked examples. Future work will focus on addressing

the limitations and applying the system in real-world scenarios [1].

References

[1] ICTU Student 218, ”Construction and Implementation of a Tax Management Program for the Yen Phong District Tax Office,” internal undergraduate thesis (original in Vietnamese), Thai Nguyen University of Information and Communication Technology, 2010.

[2] Hướng dẫn sử dụng Microsoft Access tập 1+2- Giáo sư Phạm Văn Ất- Nhà xuất bản khoa học và kỹ thuật- 1987

[3] Biên soạn: Nguyễn Văn Toàn Nguyễn Thị Kim Phụng Nguyễn Đình Loạn Phương Giáo trình lập trình cơ sở dữ liệu với VB 6.0 -Đại học quốc gia thành phố HCM

[4] Giáo trình nhập môn lập trình VB6- Phạm Hữu Khang-Nhà xuất bản lao động XH

[5] Phân Tích và thiết kế hệ thống thông tin – Nguyễn Văn Ba- Nhà xuất bản đại học quốc gia Hà Nội

[6] ICTU Student 19, ”Construction of a Business Tax Management Program for the Tax Office of Thai Nguyen City,” internal undergraduate thesis, Thai Nguyen University of Information and Communication Technology, 2007.

[7] ICTU Student 20, ”Development of a Business Tax Management Program for a Local Tax Office in Thanh Phu District, Vietnam,” internal undergraduate thesis, Thai Nguyen University of Information and Communication Technology, 2007.

[8] ICTU Student 103, ”Design of a Tax Management Program for Stamp Duty Collection in Tang Yao,” internal undergraduate thesis, Thai Nguyen University of Information and Communication Technology, 2009.

[9] M. Fowler, UML Distilled: A Brief Guide to the Standard Object Modeling Language, 3rd ed. Addison-Wesley Professional, 2003. ISBN 9780321193681.

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