# Chapter V

# SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

This chapter provides a comprehensive overview of the research project "An Integrated PWD Data Management System with Data Analytics for Tacloban City PDAO Office". It synthesizes the project's key outcomes, presenting a detailed summary of the system's development, drawing evidence-based conclusions from the implementation, and offering strategic recommendations for future system improvements and expansions.

## Summary

The proponents developed a comprehensive web-based information system aimed at addressing the inefficiencies in the manual management of Persons with Disabilities (PWD) data at the Tacloban City Person with Disability Affairs Office (PDAO). The system integrates key features such as a Centralized Database, Data Analytics Tools, and Data Visualization Features, utilizing advanced techniques to transform PWD data management.

The Centralized Database successfully replaced the previous Excel spreadsheet-based system, providing a robust and secure platform for storing and managing PWD records. The Data Analytics Tools enabled comprehensive tracking and automated management of PWD information, including features like automatic record archiving and age updates. The Data Visualization Features transformed complex PWD data into easily understandable graphical representations, facilitating more informed decision-making.

The implementation of this system has significantly improved data management practices for the Tacloban City PDAO, resulting in more efficient operations, reduced administrative workload, and enhanced ability to analyze and respond to the needs of the PWD community.

## Conclusions

The researchers successfully developed and implemented a Web-Based PWD Data Management System for Tacloban City's PDAO, addressing key issues of data management inefficiencies. The system met the following objectives:

- Created a centralized database for storing and managing PWD records with enhanced accuracy, accessibility, and security.
- Developed data analytics tools to facilitate comprehensive data analysis and provide actionable insights through automated record management and tracking.
- Utilized data visualization features to present PWD information in clear, accessible, and insightful graphical representations.

In conclusion, the system effectively enhanced PWD data management, leading to improved efficiency in record keeping, data analysis, and decision-making processes. With its successful implementation and validation through comprehensive test cases, the system is ready for full deployment at the Tacloban City PDAO.

## Recommendations

While the system achieved its primary objectives, there are several areas where future enhancements can be made to further improve its performance and functionality. The following recommendations are proposed:

1. **Enhanced Data Integration:** Explore possibilities of integrating additional data sources beyond the current local government systems to provide more comprehensive PWD insights.
2. **Advanced Analytics Features:** Implement machine learning algorithms to develop predictive analytics capabilities, enabling more proactive service planning and resource allocation.
3. **Mobile Accessibility:** Develop a mobile application or responsive design to allow PDAO staff to access and update PWD records remotely, increasing system flexibility and efficiency.
4. **Multilingual Support:** Add language localization features to make the system more accessible to diverse user groups and potentially expand its use to other regions.
5. **Continuous User Training:** Develop ongoing training programs and comprehensive documentation to ensure PDAO staff can fully utilize the system's advanced features.

By incorporating these recommendations, the PWD Data Management System can further enhance its functionality, contribute to more effective PWD service delivery, and serve as a potential model for other local government units seeking to improve their disability data management practices.