

Transparent Government Display System: Conceptual Implementation of CRUD approach

Project Presentation of Group 6

The Team



Feria



Mendoza



Lara



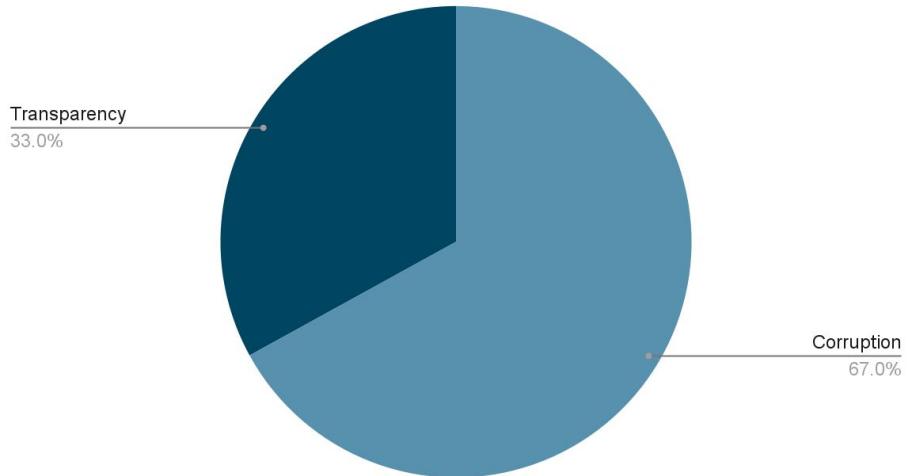
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Introduction

Addressing the major challenge of a lack of transparency in public finance which enables the misuse of taxes and causes public distrust, a concern amplified by studies (Farazmand et al., 2022) suggesting that technological solutions like blockchain-based fund-tracking can make records traceable and tamper-proof, thereby strengthening accountability this project proposes to design and implement a transparent financial management system that makes financial records accessible, verifiable, and easier to audit by combining tamper-evident digital tracking, user-friendly public reporting, and compliance checks with existing Philippine laws such as Republic Act No. 6713 and Executive Order No. 2 of 2016, leveraging our expertise to ensure it is technically robust and legally aligned, with the ultimate goal of supporting and piloting the system within a local government unit to evaluate its effectiveness, gather stakeholder feedback, and scale the solution nationally if it demonstrably improves transparency and reduces financial irregularities.

Statistical Presentation

Points scored



PHILIPPINES

Score

33/100

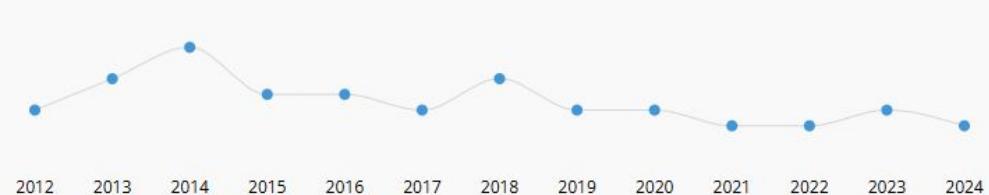
Rank

114/180

Score change

⬇️ -1 Since 2023

Score changes 2012 - 2024



Objectives

1. Develop a management system that:
 - a. Integrates a login feature to access information.
 - I. For local user log-in (For the public with view feature only)
 - II. For administrative log-in (For dedicated users to edit, delete, update, etc.)
 - b. Read user credentials and privileges
 - c. Displays and creates all project information such as, budget used, etc.
 - d. Deletes outdated projects BUT stores it in the archive.
2. Test and evaluate the system's accuracy.

Pseudocode

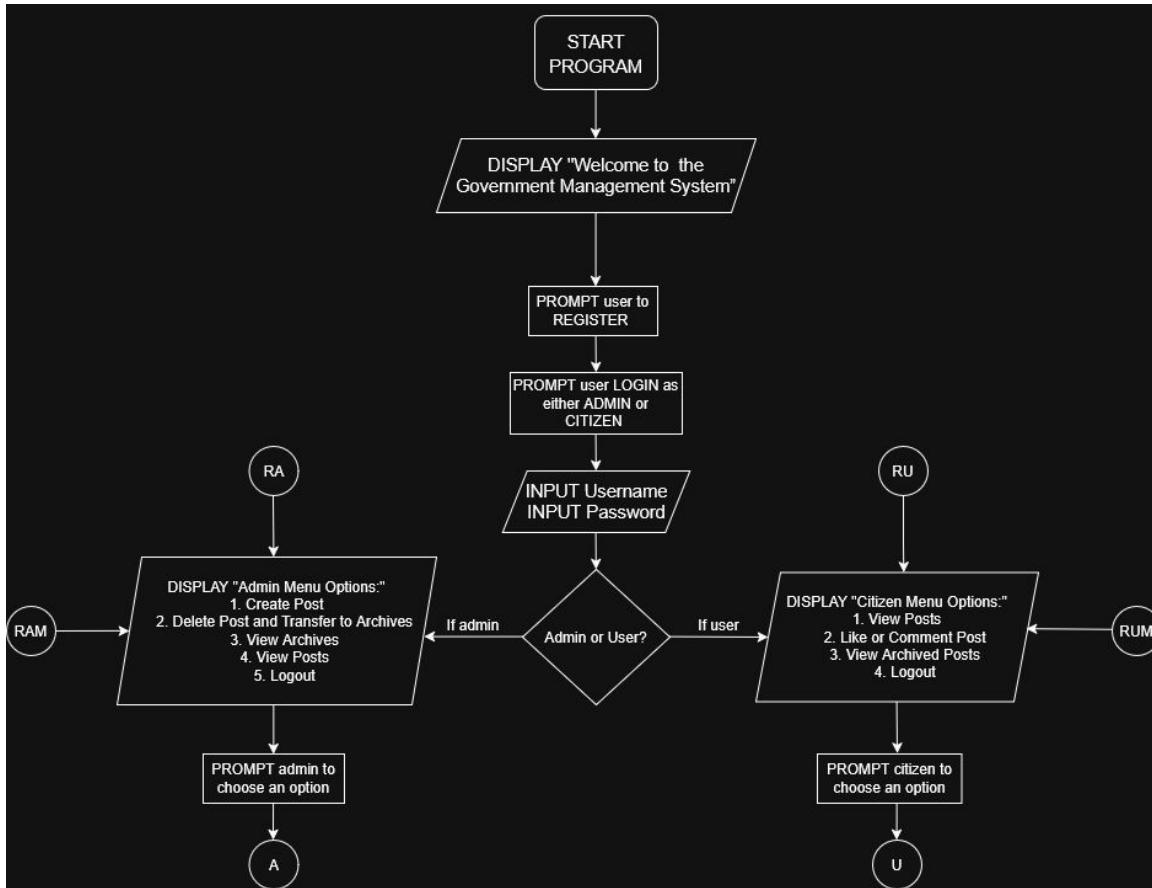
```
START PROGRAM
    DISPLAY "Welcome to the Government Management System"

    REPEAT
        DISPLAY "What would you like to do?"
        DISPLAY "(1) Register"
        DISPLAY "(2) Login"
        DISPLAY "(3) Admin Login"
        DISPLAY "(4) Exit"
        PROMPT user for choice

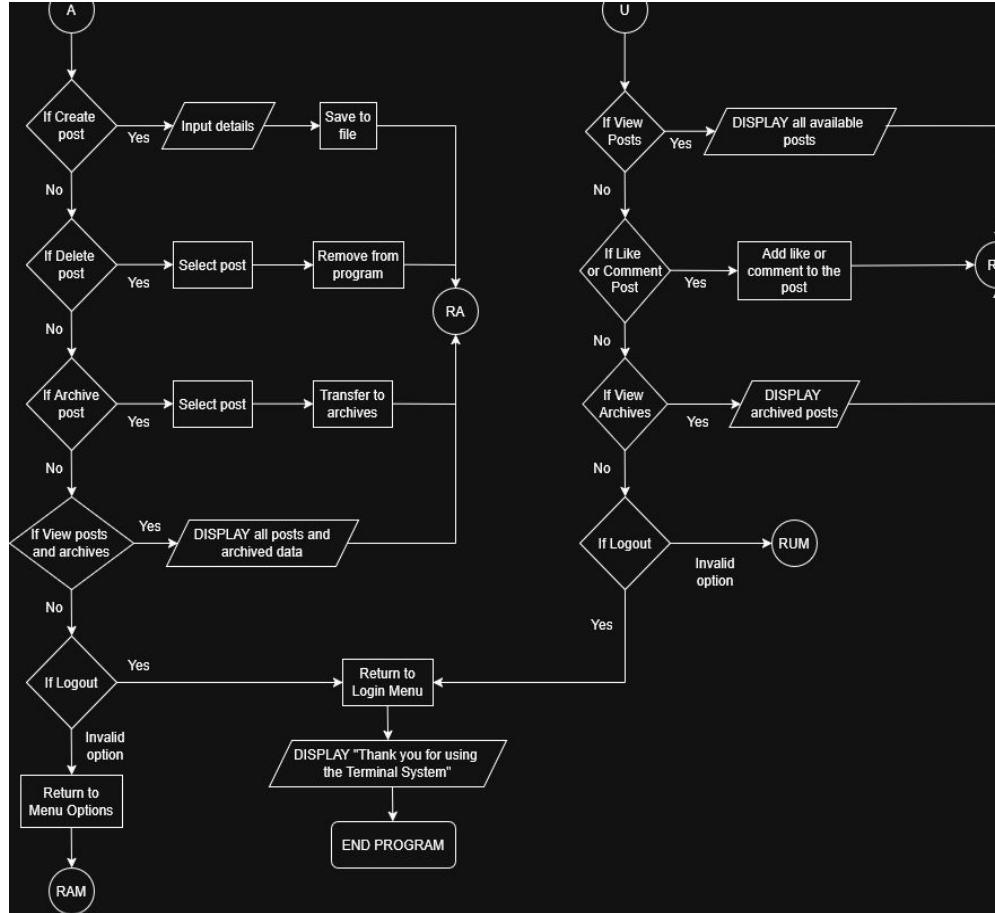
        IF choice = 1 THEN
            CALL registration()
        ELSE IF choice = 2 THEN
            CALL login()
            IF login is successful THEN
                CALL localMenu()
            END IF // END THE IF STATEMENT
        END IF
    END IF

    ELSE IF choice = 3 THEN
        CALL adminLogin()
        IF admin login is successful THEN
            CALL codeInter() // ID
            IF code is correct THEN
                CALL adminMenus()
            END IF
        END IF
        ELSE IF choice = 4 THEN
            DISPLAY "Thank you for using our system!!"
            EXIT LOOP
        ELSE
            DISPLAY "Invalid Main Menu choice!"
            WAIT for 2 seconds
        END IF
    UNTIL choice = 4
END PROGRAM
```

Flowchart



Flowchart



Results and Discussion

Testing		
Category	Remark	Result
User Registration	Saves Unique User and Pass	<input checked="" type="checkbox"/>
Admin Login	Secured Verification	<input checked="" type="checkbox"/>
View Project and Archives	Includes Filters and Displaying all Projects	<input checked="" type="checkbox"/>
Create and Delete Posts	Saving and deleting with timestamps	<input checked="" type="checkbox"/>
Archives Transfer	Moving to archives	<input checked="" type="checkbox"/>
Error Input Handling	Detecting Invalid Inputs	<input checked="" type="checkbox"/>

Conclusion

The development of the *Transparent Government Display System* successfully achieved its main objective to promote transparency by allowing citizens to view how government funds are utilized. The system effectively integrates essential features such as user and administrator login, project creation, updating, deletion, and archiving of outdated records. Through these functions, the project demonstrates how technology can strengthen accountability and public trust by providing accessible and organized information about government projects and expenditures.

All the objectives were met:

The **log-in system** ensures secure access and distinguishes between public users and administrative users with different privileges.

The **data management functions** (create, read, update, delete, and archive) allow proper record handling and ensure data integrity.

The **archiving feature** retains deleted project records for reference and transparency.

The **testing and evaluation phase** confirmed the system's reliability and accuracy in displaying project data.

References

- Abhishek, A., Rao, S., & Sinha, R. (2022). *Towards devising a fund management system using blockchain*. arXiv preprint arXiv:2211.03613. <https://arxiv.org/abs/2211.03613>
- Farazmand, A., Kim, S., & Rafiq, A. (2022). Corruption, lack of transparency and the misuse of public funds in times of crisis. *Public Organization Review*, 22(4), 901–915. <https://doi.org/10.1007/s11115-022-00651-8>
- Transparency International. (2024). Corruption Perceptions Index 2024 – Philippines. Retrieved from <https://www.transparency.org/en/countries/phippines>
- Zuijderwijk, A., Al Mushayt, O., & Janssen, M. (2025). *TAPAS: A pattern-based approach to assessing government transparency*. arXiv preprint arXiv:2505.16413. <https://arxiv.org/abs/2505.16413>