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Performance Task 2 – Part 2 (Individual Work)

Create/provide a comprehensive system architecture diagram of the system/application of your Capstone Project that illustrates the key components/modules, their interactions, and the flow of data within the system/application.
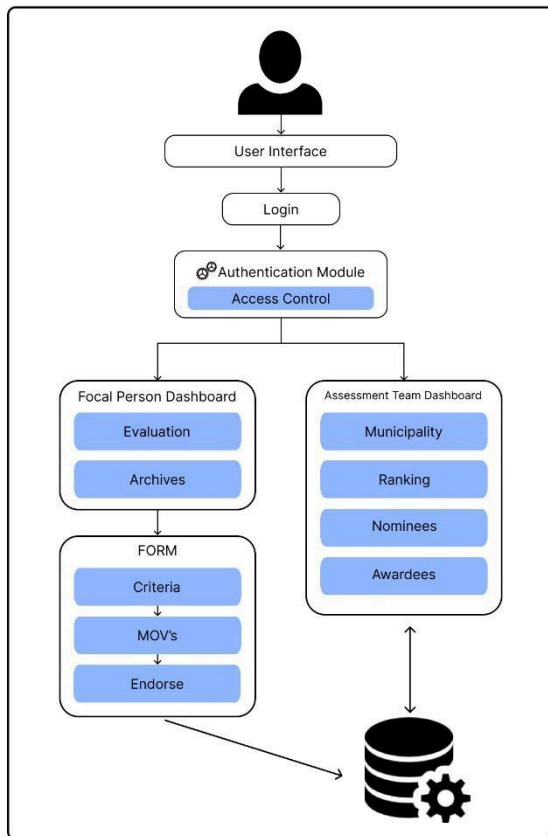
Additionally, provide also the following:

1. Detailed explanation of the choices made in your architecture, highlighting how each component/modules contributes to the overall functionality and security of the system/application.

2. Detailed explanation of their interactions, and the flow of data within the system/application.

3. Security measures and flexibility applied in your design/system.

I: Detailed explanation of the choices made in your architecture, highlighting how each component/module contributes to the overall functionality and security of the system/application.

User Interface - serves as an entry point for users. Both users have different UI for each account created. The module's contribution is that it ensures that both users interaction with the system is user-friendly and intuitive.

Log-in module - handles the credentials of users. The contribution of this is that it ensures only both users who are registered can access the system.

Authentication module – Verifies user credentials. This component is vital for both security and functionality, ensuring that only authenticated users with appropriate roles (Focal Person, Assessment Team) can access the corresponding dashboards.

Focal Person – This module contains 2 functions, criteria and MOV. Criteria is the basis of what would be the content of the file to be submitted. MOV (Means of Verification) module is where the user will upload the file per criteria. This dashboard is essential for the Focal Person to perform evaluations

based on predefined criteria and submit them through the system. It provides a structured workflow for handling documents, archiving historical data, and endorsing completed assessments.

Assessment team Dashboard – this page is where the assessor will grade the file submitted by the Focal Person. Points to be given are based on the point system given by DILG per criteria. After grading, compiled grades of barangays are sorted from highest to lowest. They will be nominated and awarded once DILG holds a program. All data and files are saved at the database. The database ensures that all the data processed by the system is stored securely and is readily available for retrieval when needed. It supports both dashboards and the overall functioning of the system, ensuring data integrity and efficient access. Backend services connected to the database also handle processing tasks and enforce security protocols, such as encryption and data validation.

II. Detailed explanation of their interactions, and the flow of data within the system/application

Focal Person focuses on uploading data and evaluation, and the Assessment Team focuses more on managing nominees and auto-generating rankings. The system's database is the central storage for the design, ensuring data integrity, security, and quick retrieval of information when required.

III: Security measures and flexibility applied in your design/system.

- User Accounts are required to use a combination of lowcase and uppercase letters.
- Database is highly protected under MySQL protocol.
- Plan for incident and disaster response.
- Implementing security monitoring and auditing.