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Project 381

Technical 2: Business Logic

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# Introduction

The business logic layer manages the logic, computations, and business rules that determine how an application operates. In other words, the BLL controls how database data is utilized and what it is permitted to do within the program.

The presentation layer, often known as the end-user interface, and the database are managed by the business logic layer in this fashion. It is a component of the software engineering multitier architecture, in which different functions are physically separated.

# Business logic layer definition

The business elements that offer OAGIS services(a methodology and framework for communications in XML that is consistent.) to return data or launch business processes make up the business logic layer. The presentation layer uses these OAGIS services to show data or launch a business process. The business logic provides data needed by the display layer. The business logic layer was created because applications need to do more than just collect and update data; they also need to perform extra business logic that is separate from the display layer.

# What our logic layer contains

Our logic layer currently has the main goal to act as a login operation so that not anyone can access the system because there might be some sensitive data stored in the database. We created a main.py file in witch there are a few complex functions that reads and writes user info to and from a text document to check if the user name and password matches. For future functionality we are going to move this sensitive data to a more secure location than a txt file. Furthermore there as a interface that is displayed through the console for development purposes before we attach the system to a GUI witch will be added while implement the presentation layer witch we already have in development.

As of right now, the major objective of our logic layer is to serve as a login process, preventing anyone from gaining access to the system because the database may contain some important data. In order to check if the user name and password match, we constructed a main.py file with a few complicated methods that read and write user information to and from a text document. We will migrate this sensitive data from a txt file to a more secure location for future functionality. Before we connect the system to a GUI, which will be introduced as we add the presentation layer that we are already developing, there is also an interface that is displayed through the console for development purposes.

# How it will link into the existing python code

# Conclusion

The Business Logic Layer (BLL) in programming acts as a conduit for information flow between the Data Access Layer and the Presentation Layer. The business logic layer handles the business rules, computations, and logic that determine how an application operates. In other words, the BLL controls how database data is utilized and what it is permitted to do within the program. No successful program can run without a business logic layer.