Architecture Pattern

Course No: CSE-3106

Course Title: Software Development Project

Submitted to,

Associate Professor

Dr. Amit Kumar Mondal

Computer Science and Engineering Discipline, Khulna University,

Khulna

Submitted By,

Parthoraj Nandi (210202)

Susmita Biswas (210224)

CSE Discipline, Khulna University, Khulna

Project name: TaskMaster Pro

Decision: Use Layered Architecture for TaskManager Pro

1. Presentation Layer:

Responsibility: The presentation layer is responsible for handling user interaction and displaying the user interface.

Components: Login screen, task management interface, settings interface.

Interaction: It communicates with the application layer to retrieve data and execute user actions.

2. Business Logic Layer:

Responsibility : Business Logic Layer contains the business logic of the application.

Components: Task manipulation logic (addition, deletion, sorting), user authentication logic, password change logic.

Interaction: It defines the structure and behavior of domain entities and may contain validation and business rules.

3. Data Access Layer:

Responsibility: The data access layer handles data retrieval and manipulation operations with the underlying database.

Components: Data access objects (DAOs), database connection management.

Interaction: It interacts with the storage layer to perform READ/WRITE operations on data entities.

4. Storage Layer:

Responsibility: In this layer we store the data into the text files.

Components: Text files.

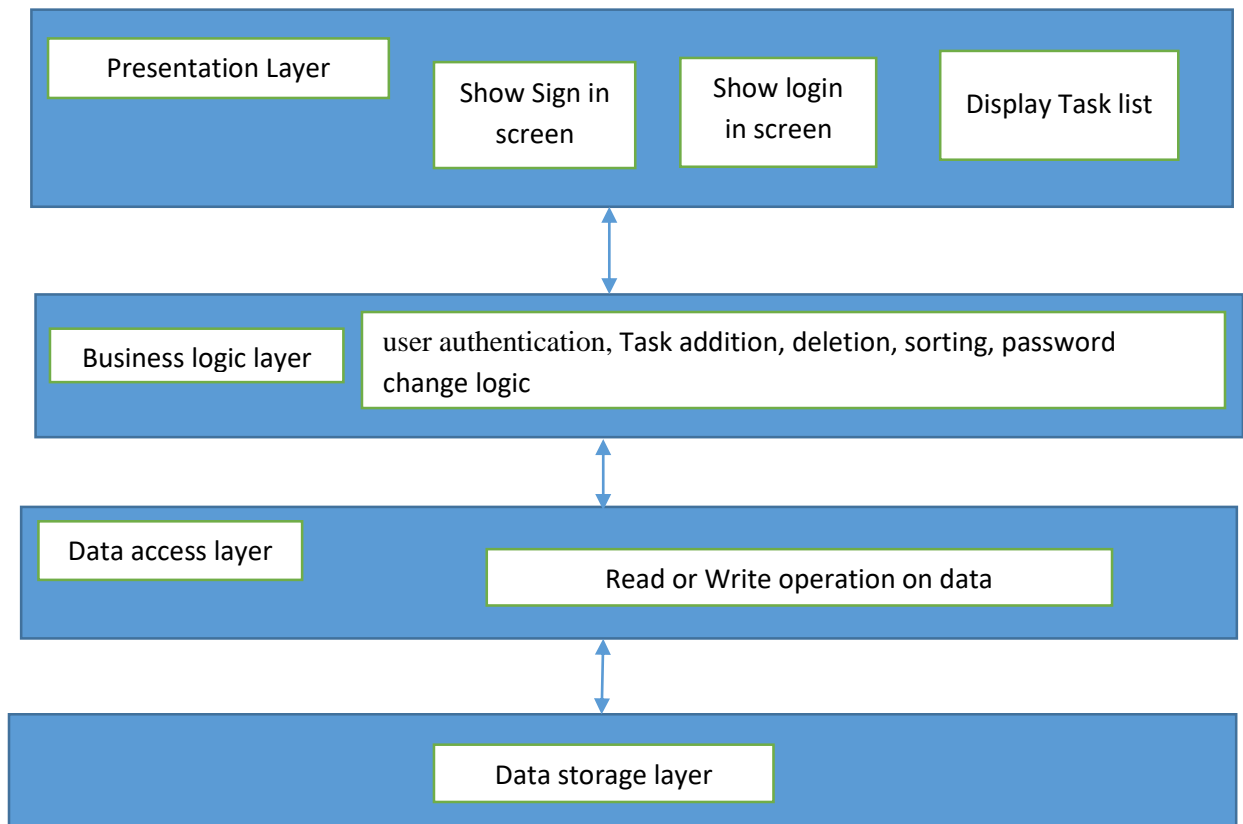**Interaction:** It stores and retrieves data according to requests from the data access layer.

Fig: Layered Architecture model of TaskManager Pro