



Architecture Pattern

Course No: CSE-3106

Course Title: Software Development Project

Submitted to,

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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. Application Layer:

Responsibility: The application layer contains the business logic of the application.

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

Interaction: It interacts with the domain layer to perform business operations and with the presentation layer to receive user input and provide output.

3. Business Logic Layer:

Responsibility: Encompasses the core business rules and logic specific to the TaskManager Pro.

Components: Task entity, User entity.

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

4. 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.

5. 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.

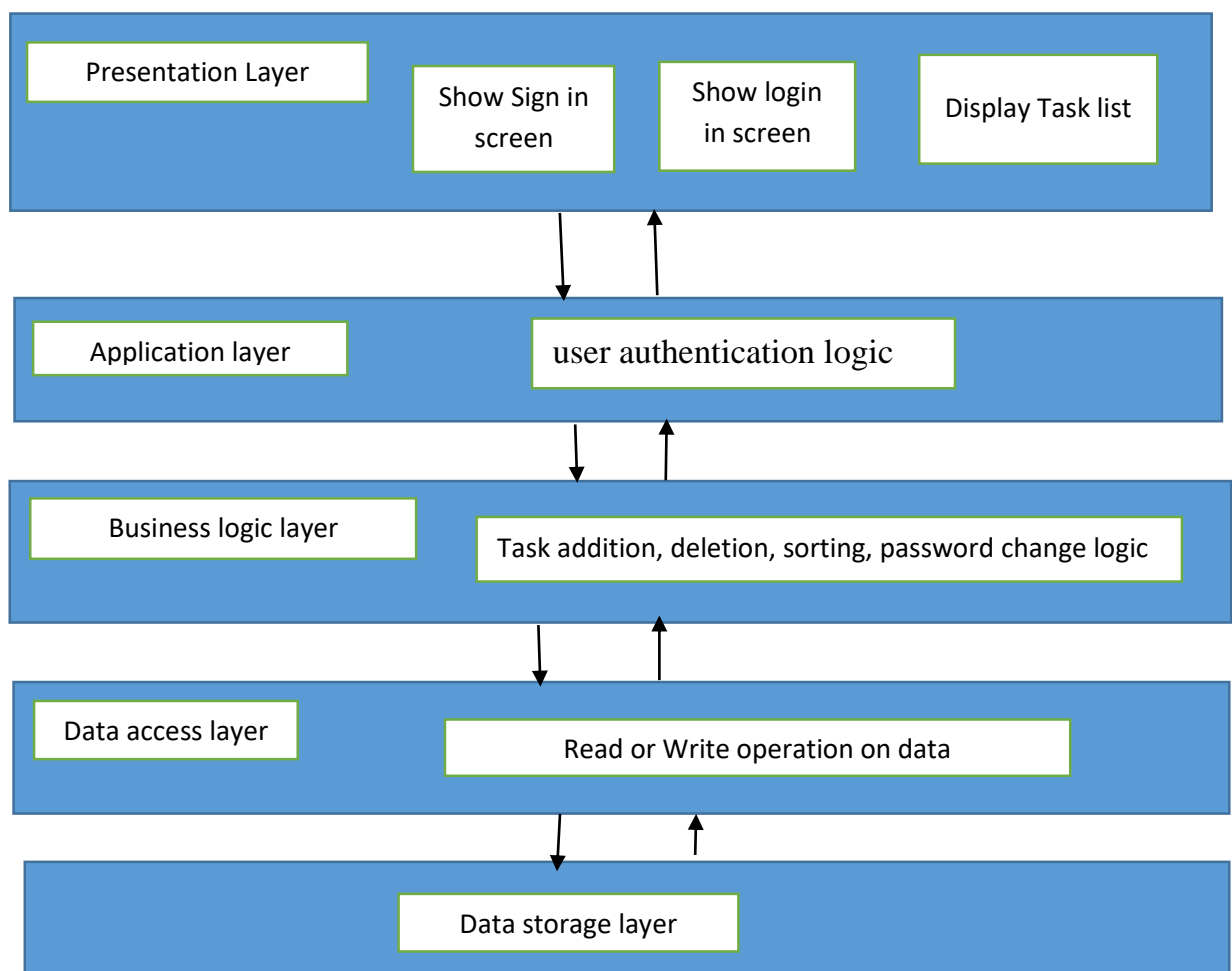


Fig: Layered Architecture model of TaskManager Pro

