Design Specification Document

Version 1.0

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Diary Management System

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1.Use Case Diagram

Its the simplest representation of a user's interaction with the system that shows the relationship between the user and the different use cases in which the user is involved.
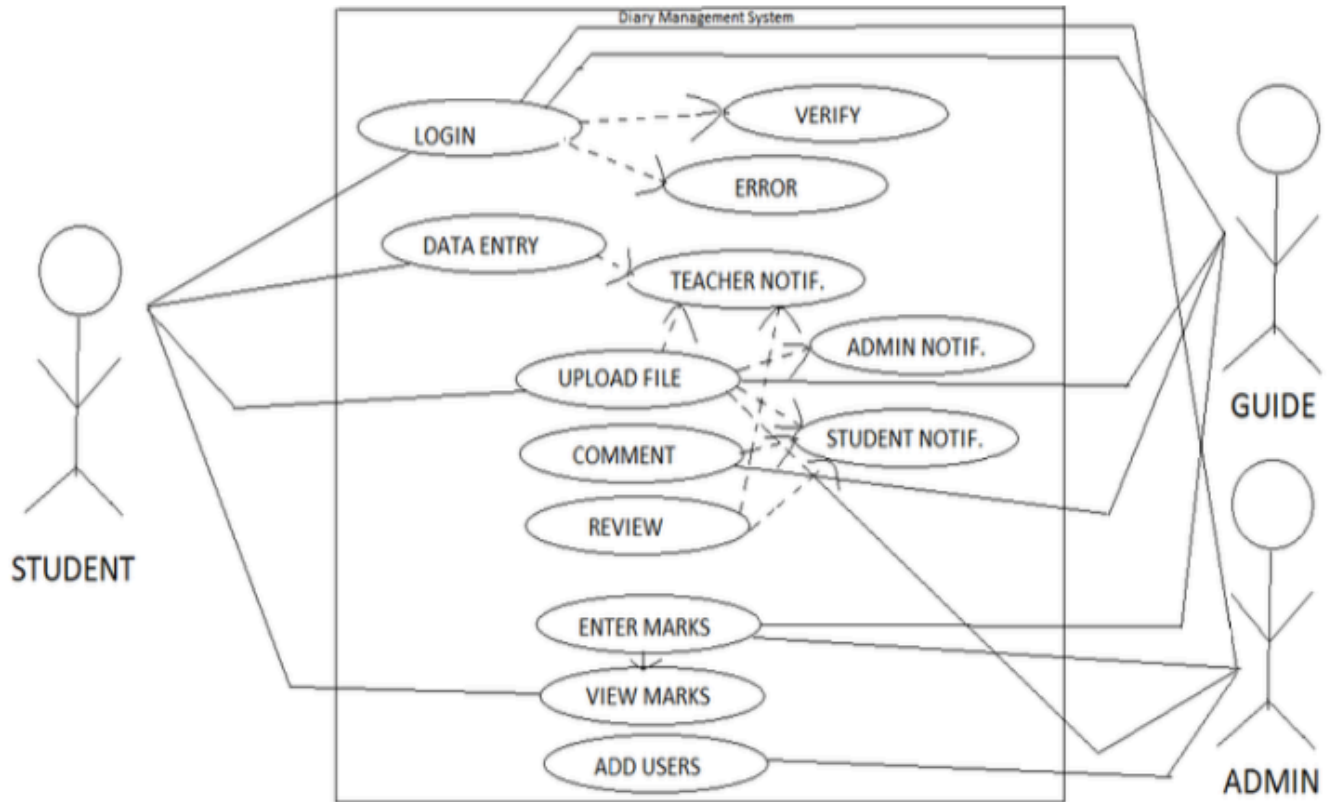

Figure 1 - System Environment

Figure 1: UseCase Diagram

2. State Diagarm

State diagram is used to give an abstract decription of the behavior of the system. It is a control specification which represents behavior of the system.
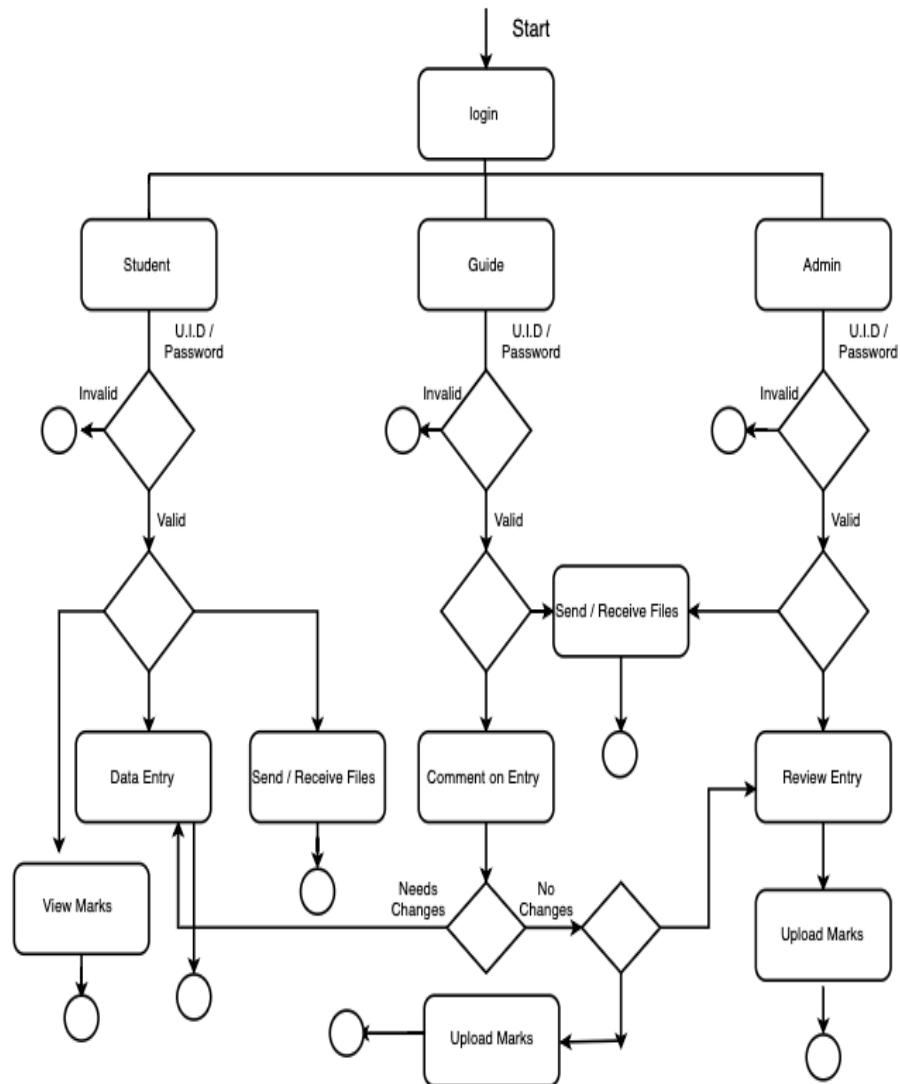
Figure 2: State Diagram

3. Sequence Diagram

A sequence diagram simply depicts interaction between objects in a sequential order i.e. the order in which these interactions take place.
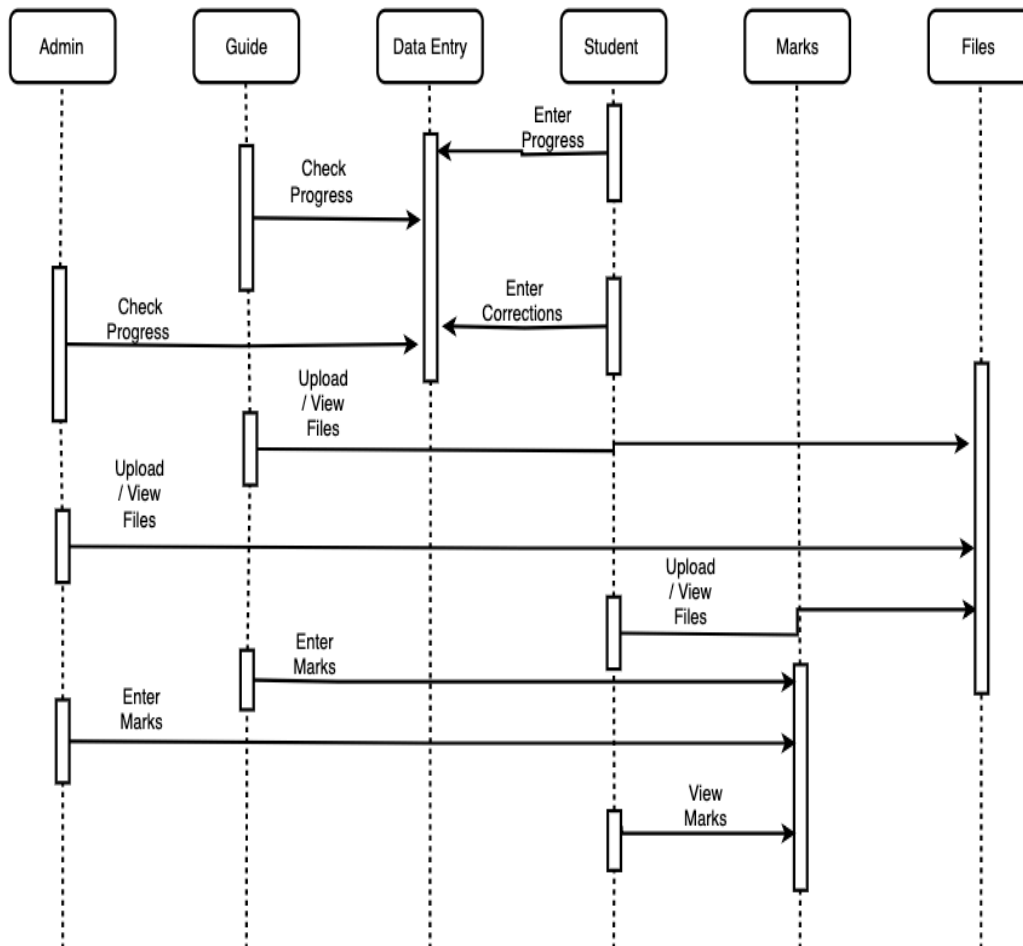

Figure 3: Sequence Diagram

4. Swimlane Diagram

A swimlane diagram is a type of flowchart that delineates who does what in a process. Using the metaphor of lanes in a pool, a swimlane diagram provides clarity and accountability by placing process steps within the horizontal or vertical "swimlanes" of a particular employee, work group or department.
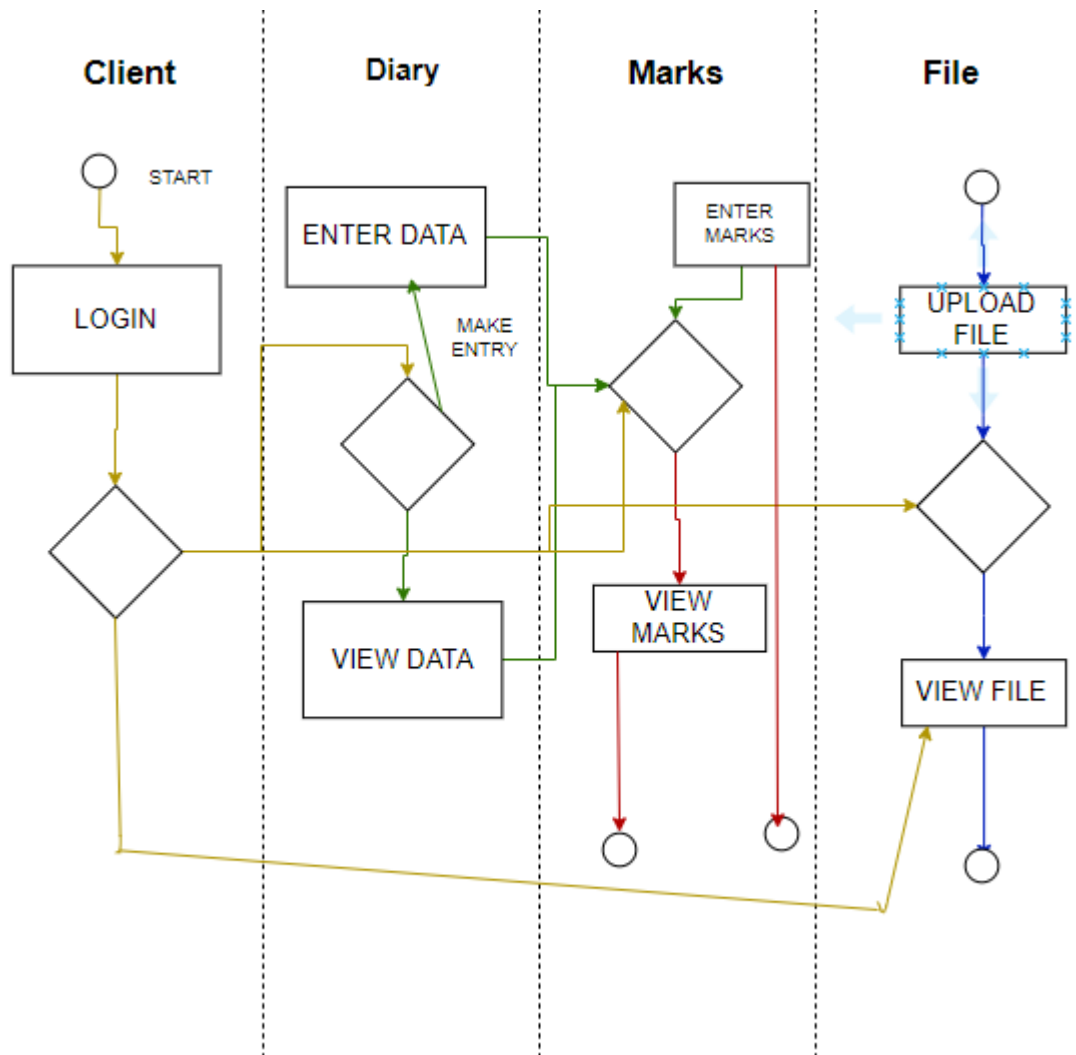

Figure 4: Swimlane Diagram

5. Dataflow Diagram

5.1 Level 0

A **data-flow diagram** (DFD) is a way of representing a flow of a data of a process or a system (usually an information system) The DFD also provides information about the outputs and inputs of each entity and the process itself.
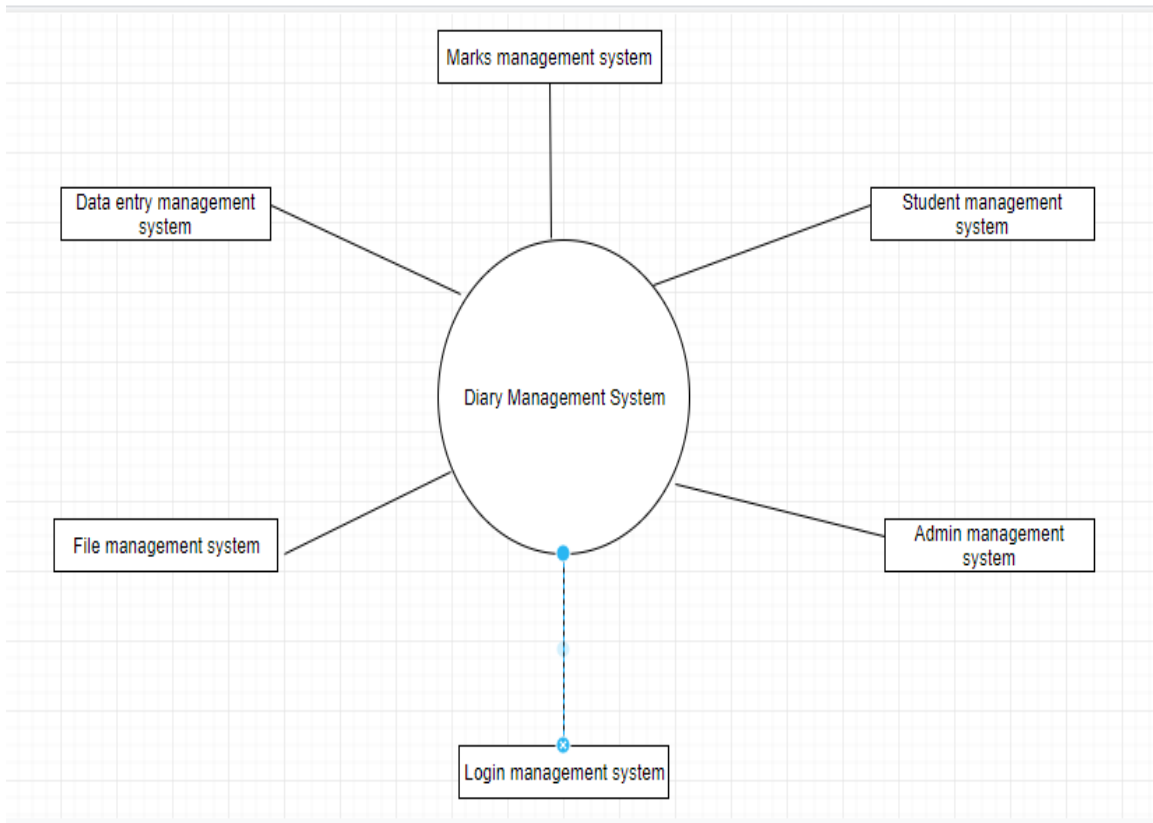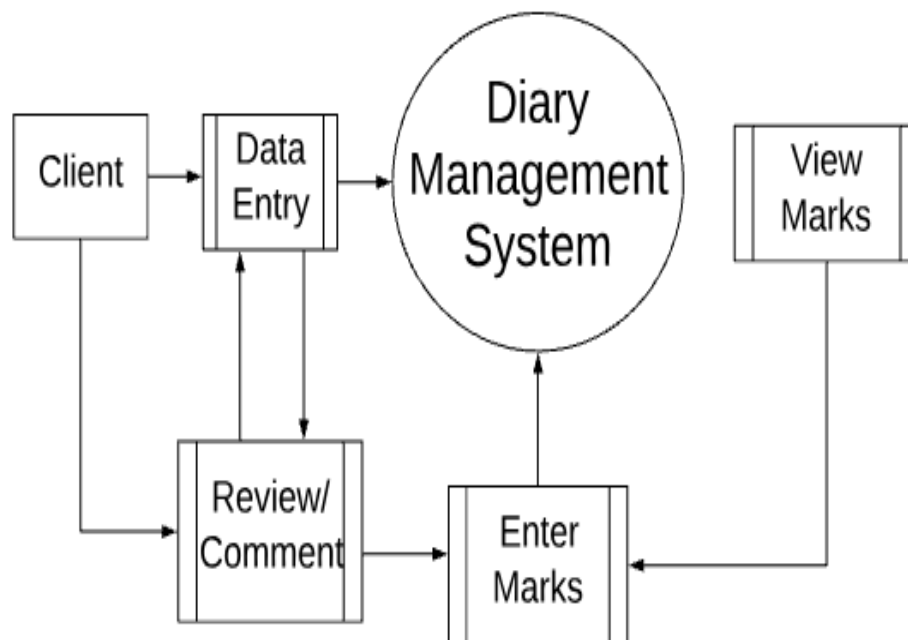

Figure 5.1: Data Flow Diagram (level 0)

5.2 Level 1

It is a more detailed version of level 0 DFD.It breaks down the main process into sub processes that can be analyzed and improved on a more intimate level.

Data Flow Diagram
- Level 1

Figure 5.2 : Data Flow Diagram (level 0)

6. Entity relation document

Entity Relationship Diagram, also known as ERD,ER Diagram or ER model, is a type of structural diagram for use in database design. An ERD contains different symbols and connectors that visualize two important information: The major entities within the system scope, and the inter-relationships among these entitie .
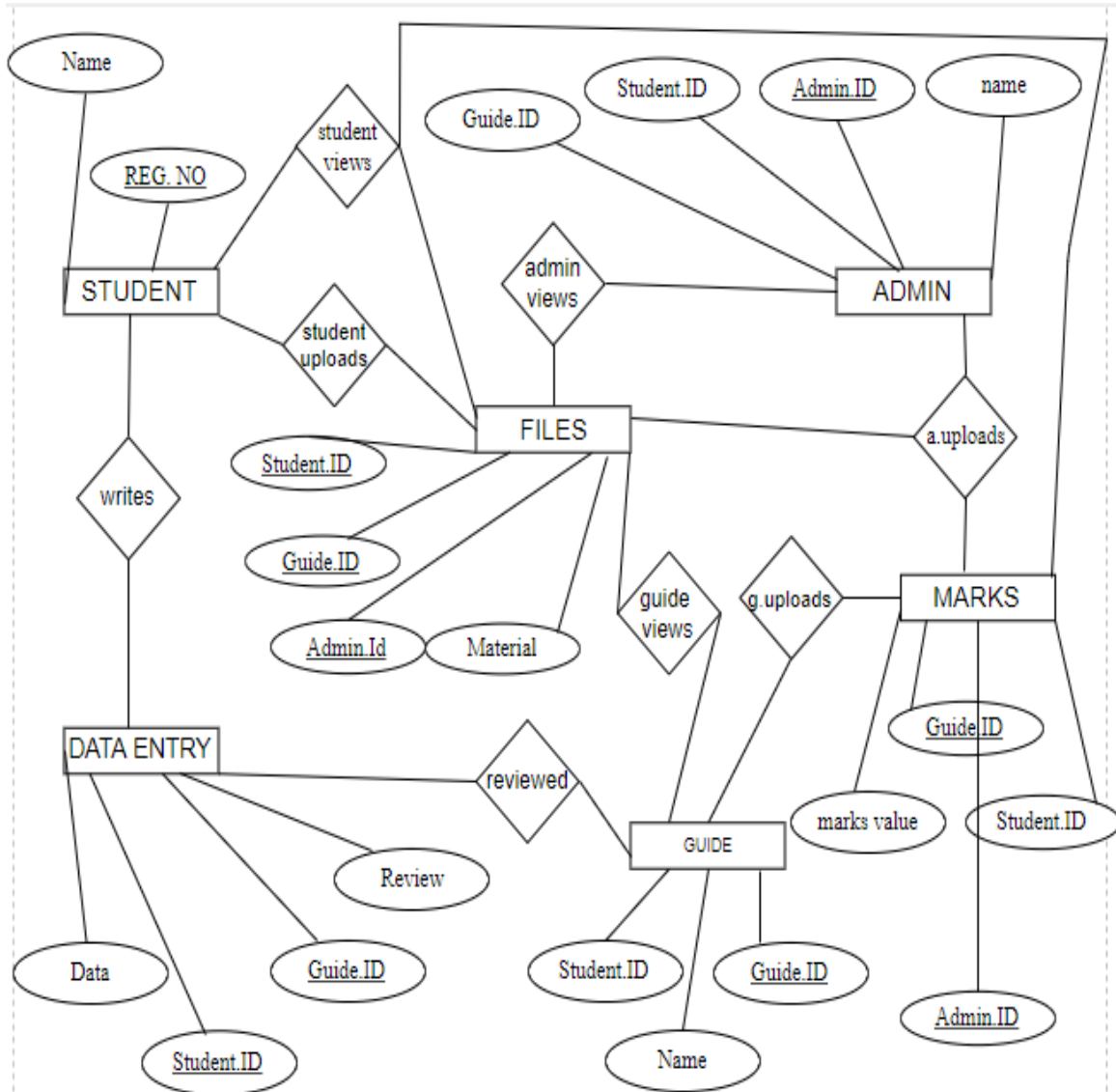

Figure 6: Entity Relationship Diagram

7. Architecture Diagram

It depicts how a typical software system might interact with its users, external systems, data sources, and services.
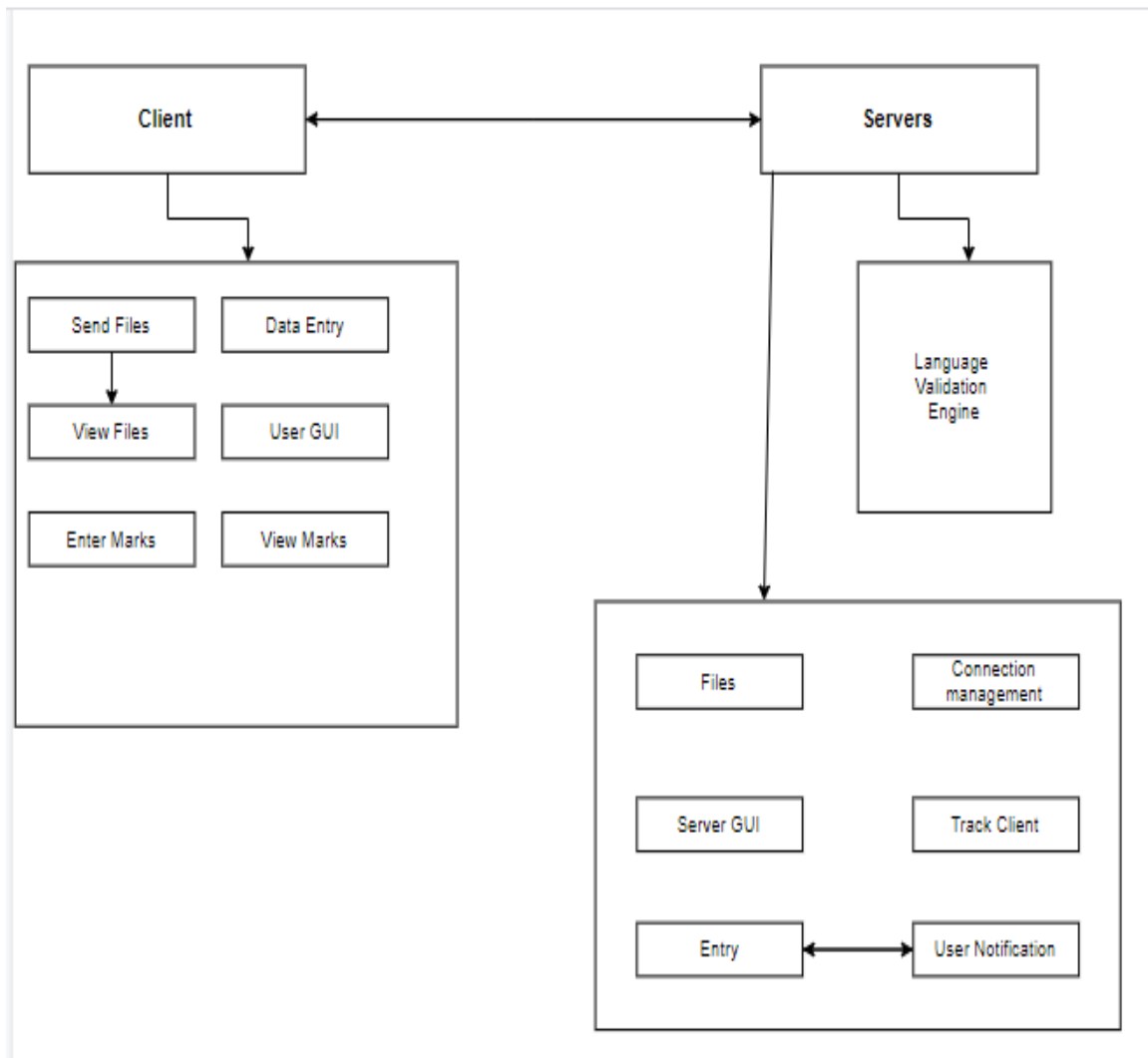This is the conceptual level showing an over view of the concepts.

Figure 7:Architecture diagram

8. Abstract Specification Diagram

This is the logical level showing a logical design of one or more concepts containing atleast the key elements of concepts and showing the principle of concepts.
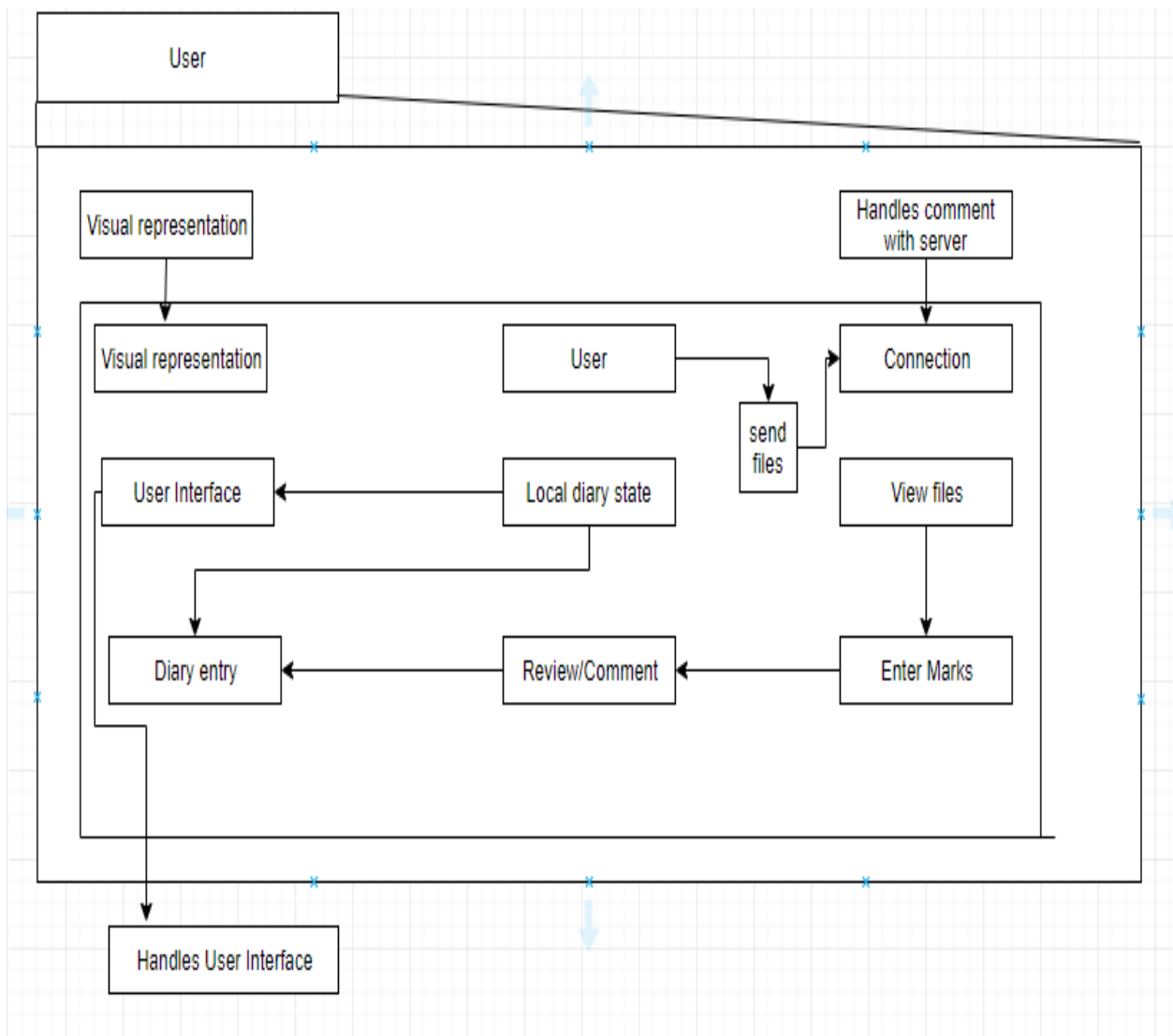

Figure 8: Abstract Specification Diagram

9. Interface Diagram

The following diagram is a high-level component-and-connector view diagram that represents interfaces as annotated ports. This diagram is similar to a data-flow diagram and is referred to as a Component Interface / Interconnection view diagram
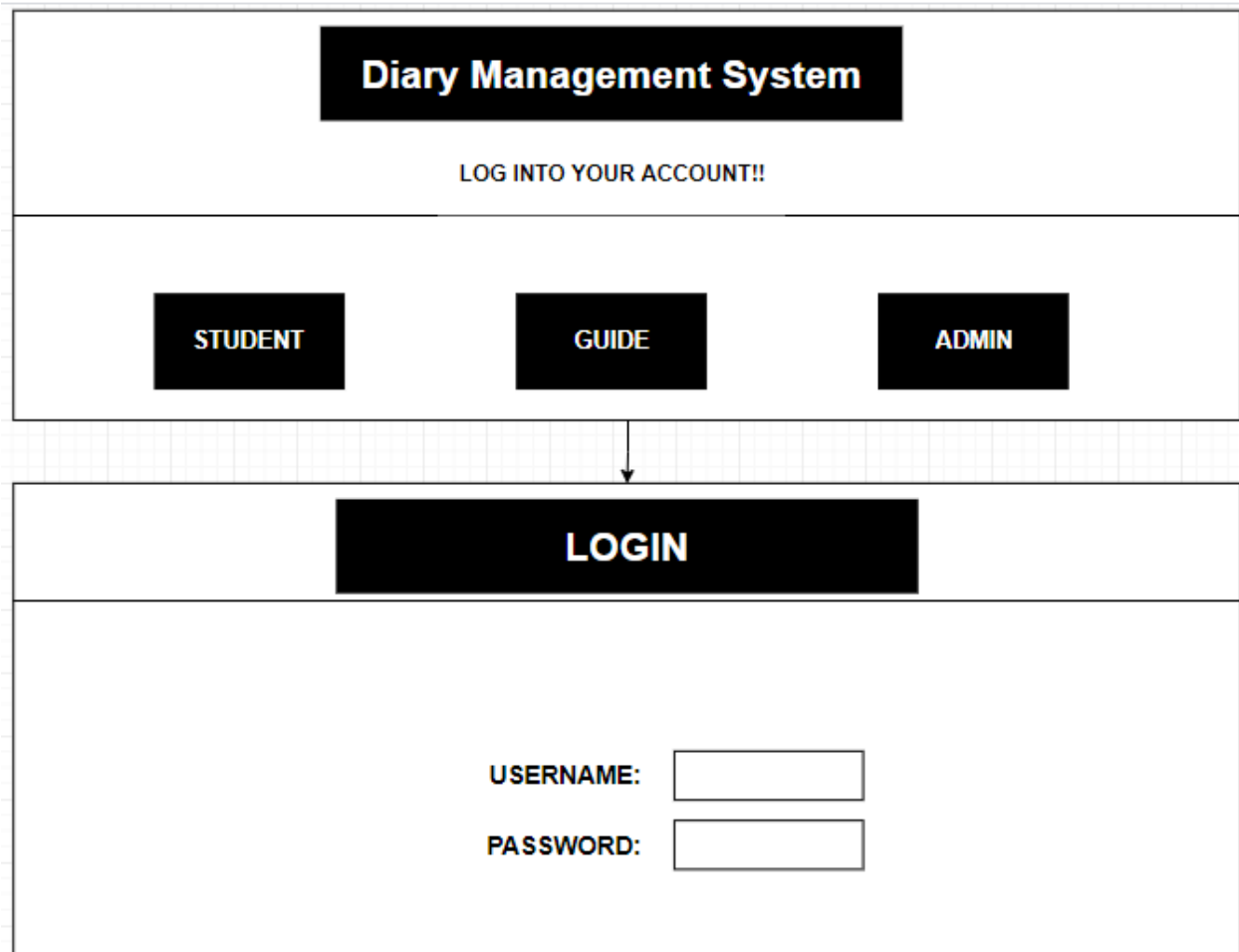

Figure 9.1: Interface Diagram

4.7 Basic layout of the Application

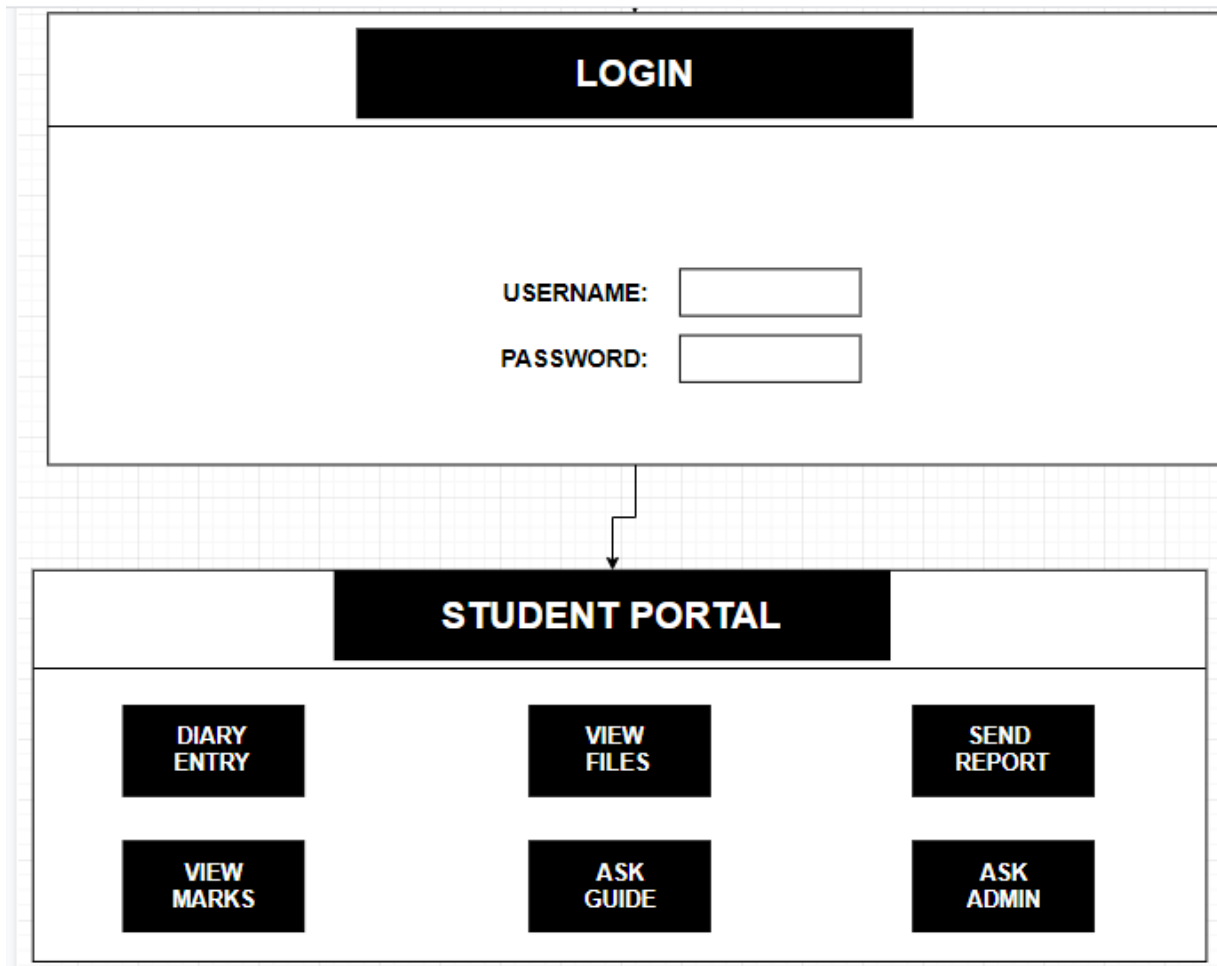The basic layout provides the client with one default option to layout the model.

Figure 10 :Basic layout of the Application