

## Experiment - 5

**Aim:** To draw the **0-Level Data Flow Diagram (DFD)** for the Event Management System.

### Requirements:

#### *Hardware Requirements:*

- Computer
- Keyboard
- Mouse
- CPU

#### *Software Requirements:*

- Microsoft Word
- Draw.io or any diagramming tool

### Theory:

A **Data Flow Diagram (DFD)** is a graphical representation of the flow of data through a system. The **0-Level DFD** (also called **Context Diagram**) provides a high-level overview of the entire system, illustrating external entities, major data processes, and data flows between them.

#### *Symbols Used:*

- **External Entity:** Represents users or other systems that interact with the system.
- **Process:** Represents a major function or operation of the system.
- **Data Flow:** Shows the movement of data between entities and processes.
- **Data Store:** Represents storage for data in the system (not commonly used in 0-level DFDs).

### 0-Level DFD Representation:

#### *Entities and Processes in the System:*

##### 1) **External Entities:**

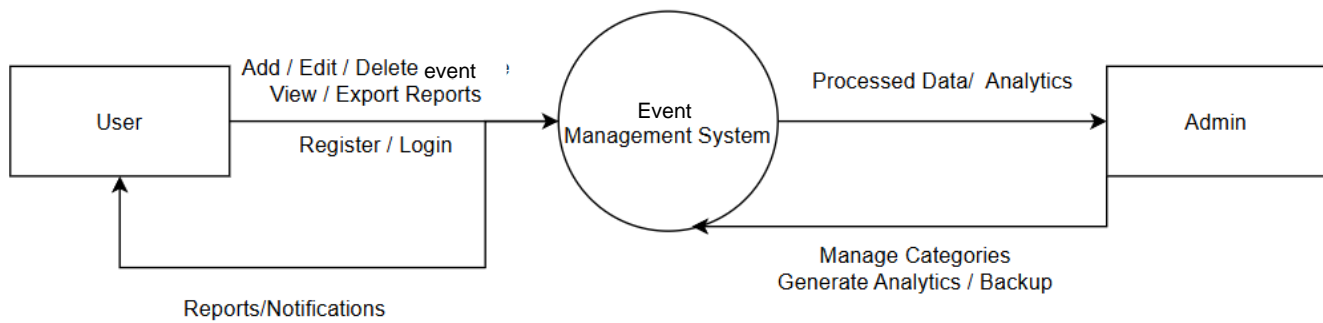
- a) User
- b) Admin

##### 2) **Main Process:**

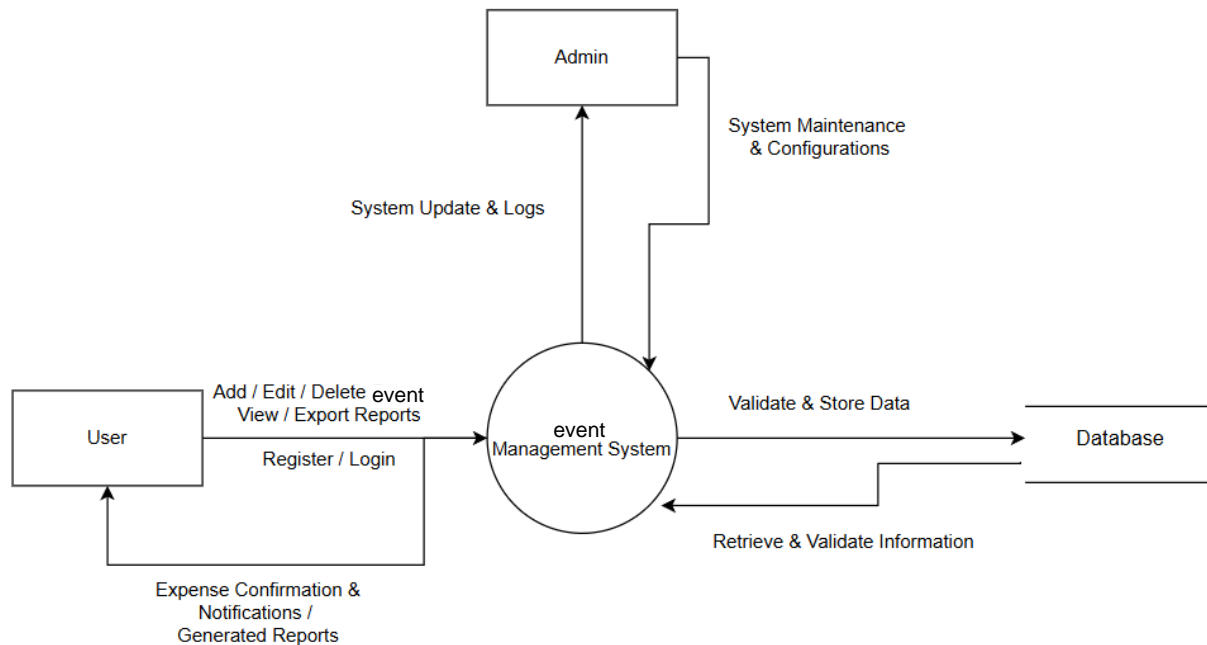
- a) Expense Management System (EMS)

##### 3) **Data Flows:**

- a) Users provide authentication details to EMS
- b) Users submit expenses to EMS
- c) EMS processes and stores expense details
- d) Admin retrieves reports from EMS
- e) EMS sends processed reports to Admin



**Fig 5.1:** 0-Level Data Flow Diagram for Event Management System



**Fig 5.2:** 1-Level Data Flow Diagram for Event Management System

## Conclusion:

The **0-Level Data Flow Diagram (DFD)** for the Event Management System has been successfully drawn, illustrating the interaction between external entities (User, Admin) and the system. This diagram helps in understanding the flow of data and the major processes involved in the system.