**Data Flow Diagram (DFD) for Login System**

A Data Flow Diagram (DFD) for a developer typically represents the flow of data within a system, illustrating how data moves between different processes, data stores, and external entities. Below is a structured DFD for a Login System, similar to a standard example format.

**Level 0 (Context Diagram)**

At the highest level, we have just one process, which represents the system as a whole.

+-----------------------+   
 | External Entities |   
 | |   
 | - User |   
 +-----------------------+   
 |   
 v   
 +---------------------------+   
 | Login System |   
 | (Process: 1.0) |   
 +---------------------------+   
 |   
 v   
 +---------------------------+   
 | Data Store: User Database |   
 +---------------------------+

**Explanation:**

• **External Entity (User):** The user interacts with the Login System by entering credentials.

• **Process (Login System):** The system processes the login request and validates credentials.

• **Data Store (User Database):** Stores user credentials for authentication.

**Level 1 DFD (Decomposition of Process)**

Now, let's break down the Login System process (Process 1.0) into more detailed steps.

+-----------------------+ +-----------------------+   
 | External Entity | | External Entity |   
 | (User) | | (Admin) |   
 +-----------------------+ +-----------------------+   
 | |   
 v v   
 +---------------------------+ +---------------------------+   
 | Process 1.1 - User Login | | Process 1.2 - Admin Login |   
 | (Enter Credentials) | | (Admin Authentication) |   
 +---------------------------+ +---------------------------+   
 | |   
 v v   
 +---------------------------+ +---------------------------+   
 | Data Store: User Database | | Data Store: Admin Database |   
 +---------------------------+ +---------------------------+   
 |   
 v   
 +---------------------------+   
 | Process 1.3 - Validate User |   
 +---------------------------+   
 |   
 v   
 +---------------------------+   
 | Data Store: User Database |   
 +---------------------------+

Explanation:

1. **Process 1.1 (User Login):** The user inputs their credentials (email and password), which are sent to the system.

2**. Process 1.2 (Admin Login):** Admin authentication involves validating credentials against the Admin Database.

3. **Process 1.3 (Validate User):** The system checks whether the entered credentials match a record in the User Database.

**Data Flow**

• The User sends their email and password to the system.

• The system validates the credentials against the User Database.

• If the credentials are valid, the user is authenticated and logged in; otherwise, an error message is returned.