Level 0 DFD (Context Diagram) At this level, we show the interaction between the **User** and the **Login System**. +----+ User | +----+ -----+ | React Login Component | | (Handles Authentication) | +----+ +----+ | Local State Management | | (Stores Email & Password)| +----+ **Explanation:** • User enters credentials (Email & Password). • React Login Component processes input using useState(). • Local State stores the email & password dynamically. Login Validation checks if fields are empty. If valid \rightarrow Show "Logging in with Email: xyz@example.com".If invalid \rightarrow Show **error alert**. Level 1 DFD (Detailed View) Breaking down each step of the **Login Process**. +----+ User | Local State | +---+ | (1.0) Enter Email & Password +----+ | Handle Input | (useState) +----+

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++ Validate Input		
(Check Empty)		
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Login Process		
(Button Click)		
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Displays Alert Message		
(Success or Error)		
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Key Features in the DFD

- 1. User Interaction:
 - User enters **Email & Password**.
 - Clicks the **Login Button**.
- 2. State Management:
 - useState dynamically updates values.
- 3. Input Validation:
 - If **empty fields** → Show "Please fill in all fields." alert.
- 4. Login Process Execution:
 - If valid login, show "Logging in with Email: xyz@example.com".