**USER INTERFACE**

This project is a **simple authentication system** built using **React.js**. It allows users to **log in with predefined credentials** and access a **dashboard**. If the credentials are incorrect, an error message is displayed. The user can also **log out**, returning to the login page.

LEVEL 00: Context Diagram

* User : Logs in and navigates to the dashboard.
* System(React App): Manages Authentication State.

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| User |

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| Authentication System (0) |

| - Handles login/logout |

| - Manages access control |

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| Local State (Auth Status) |

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LEVEL 01: Breaking down the system

* User Authentication(1.1) : Handles login verification.
* Dashboard Access(1.2) : Grants or denies access based on authentication.
* Logout Process(1.3) : Resets Authentication state.

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| User |

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| Process 1.1: Authentication |

| - User enters credentials |

| - Validates email/password |

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| Process 1.2: Dashboard Access|

| - Checks authentication |

| - If valid, grants access |

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| Process 1.3: Logout |

| - User clicks Logout |

| - Resets authentication |

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**Process 1.1: User Authentication**

* The user enters **email & password**.
* The system **validates the credentials**.
* If the credentials are **correct**, authentication succeeds.
* If the credentials are **incorrect**, an error message is displayed.

**Process 1.2: Dashboard Access**

* The system **checks authentication state** before granting access.
* If authentication is **valid**, the **dashboard** is shown.
* If authentication **fails**, the user stays on the login page.

**Process 1.3: Logout Process**

* When the user clicks **Logout**, authentication state is reset.
* The user is redirected to the **Login Page**.

**Data Flow**

* The **User** enters their email and password.
* The **Login System** captures input and sends it to **Validate Credentials**.
* If credentials match the **User Data Store**, access is granted.
* The **Dashboard** is displayed if authentication succeeds.
* The **Logout Process** resets authentication and returns the user to the login page.