## Develop a retail application using new user sign up

### ****Level 0 - Context Diagram****

At the highest level, the system is represented as a single process interacting with external entities.

#### **Diagram Representation:**

* **External Entity:** User
* **Process:** Retail App Authentication System
* **Data Store:** Local Storage (User Credentials)

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| External Entity |

| User |

+----------------------+

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| Retail App System |

| (Authentication) |

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| Data Store: Local |

| Storage Users |

+----------------------+

### ****Level 1 - Detailed Breakdown****

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| External Entity | | External Entity |

| User | | (Local Storage) |

+----------------------+ +----------------------+

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| Sign | | Store |

| Up - Register | | User Credentials |

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+----------------------+

| Show |

| Signup Success Alert|

+----------------------+

+----------------------+

| Redirect |

| to Login Page |

+----------------------+

+----------------------+

| User |

| Enters Login Info |

+----------------------+

+----------------------+

| Validate |

| Credentials (Check DB) |

+----------------------+

+----------------------+

| Decision: Credentials Valid? |

+--------------------------------------------+

yes No

+----------------------+ +----------------------+

| Redirect | | Show |

| to Home Page | | Invalid Credentials |

+----------------------+ | Alert Message |

+----------------------+

**(Sign Up):** The user enters their email & password to register.

**(Show Signup Success Alert):** After successful signup, an alert is shown.

**(Store User Credentials):** The entered credentials are stored in local storage.

**(Redirect to Login Page):** The user is redirected to the login page.

**(User Enters Login Info):** The user provides email and password to log in.

**(Validate Credentials):** The system checks local storage for a matching user.

 Decision **(Credentials Valid?):**

* **If valid:** The user is redirected to the home page.
* **If invalid:** An alert shows "Invalid Credentials".