### **Level 0 (Context Diagram)**

At the highest level, the system allows the user to navigate pages and fetch product data from the FakeStore API.

pgsql

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| External Entity |

| User |

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

|

v

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

| React App (1.0) |

| (Handles UI & API) |

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

|

v

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| FakeStore API |

| (Product Database) |

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

### **Explanation:**

1. **External Entity (User):**
   * Navigates through the website (Home, About, Contact, Post).
   * Requests product details from /post/:id.
   * Submits messages via the Contact form.
2. **Process (React App - 1.0):**
   * Displays pages dynamically.
   * Fetches data from FakeStore API when viewing products.
   * Handles form submissions and displays a success message.
3. **Data Store (FakeStore API):**
   * Stores product information.
   * Responds to API requests with product data.

### **Level 1 DFD (Decomposition of Process 1.0 - React App)**

#### **User Navigation Process**

sql

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| External Entity |

| User |

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

|

v

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| Process: 1.1 |

| User Navigation |

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

|

v

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| React Router |

| (Loads Components) |

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

#### **Fetching Product Details Process**

pgsql

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| External Entity |

| User |

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|

v

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| Process: 1.2 |

| Fetch Product Data |

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|

v

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| FakeStore API |

| (Product Database) |

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v

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| Process: 1.3 |

| Display Product |

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#### **Contact Form Submission Process**

sql

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| External Entity |

| User |

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|

v

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| Process: 1.4 |

| Submit Form |

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|

v

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| Process: 1.5 |

| Show Confirmation |

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### **Data Flow Summary**

* The **User** navigates through the app and requests product data.
* The **React App** fetches data from **FakeStore API** and displays it dynamically.
* When the **User** submits a contact form, a confirmation message is displayed.

This follows the **DFD structure** from your reference. Let me know if you need modifications!