

My-Own-App Data Flow

1. Introduction

This document provides a detailed Data Flow Diagram (DFD) representation of the My-Own-App React application.

It explains how user interaction, UI rendering, and state management are handled dynamically.

2. System Overview

The React application consists of the following key components:

- App.js: The main file that initializes the application and renders a simple UI.
- UI Components: A card with text and a button for user interaction.

3. Data Flow Diagram (DFD)

Level 0 (Context Diagram)

At the highest level, the system consists of external users interacting with the UI components.

External Entities:

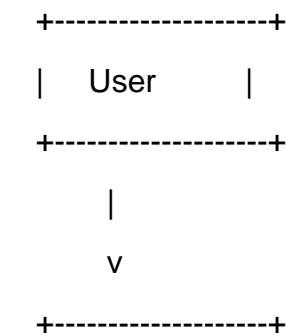
- User: Clicks the button and views the UI.

Processes:

- React Application: Handles rendering of the UI components.

Data Stores:

- None (No state management is used in this application).

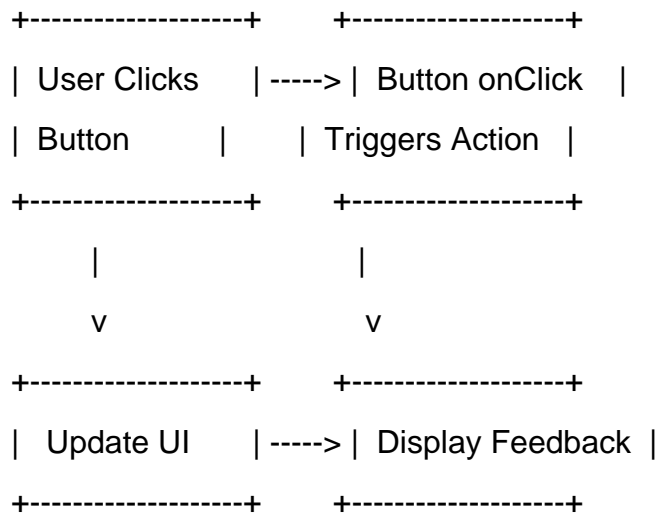


| React App (UI) |

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Level 1 DFD (User Interaction and UI Rendering)

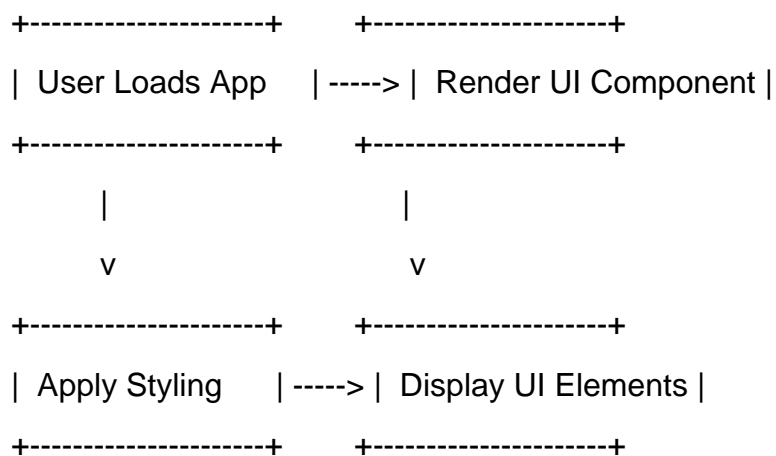
This level breaks down how the UI updates when the user interacts with the button.



Process Explanation:

1. The user clicks the button.
2. The `onClick` event triggers an action (if implemented in future updates).
3. The application updates the UI based on the interaction.

Level 2 DFD (Component Rendering)



Process Explanation:

1. When the user loads the application, React renders the UI.
2. The CSS styles are applied to the UI components.
3. The UI elements (card, text, button) are displayed to the user.

4. Explanation of Data Flow

1. The user interacts with the UI by clicking the button.
2. The application responds by rendering the predefined UI components.
3. The UI remains static unless updated with future enhancements.

5. Conclusion

This document outlines the detailed data flow in a basic React-based UI application.

The application serves as a simple static interface with potential for further enhancements.